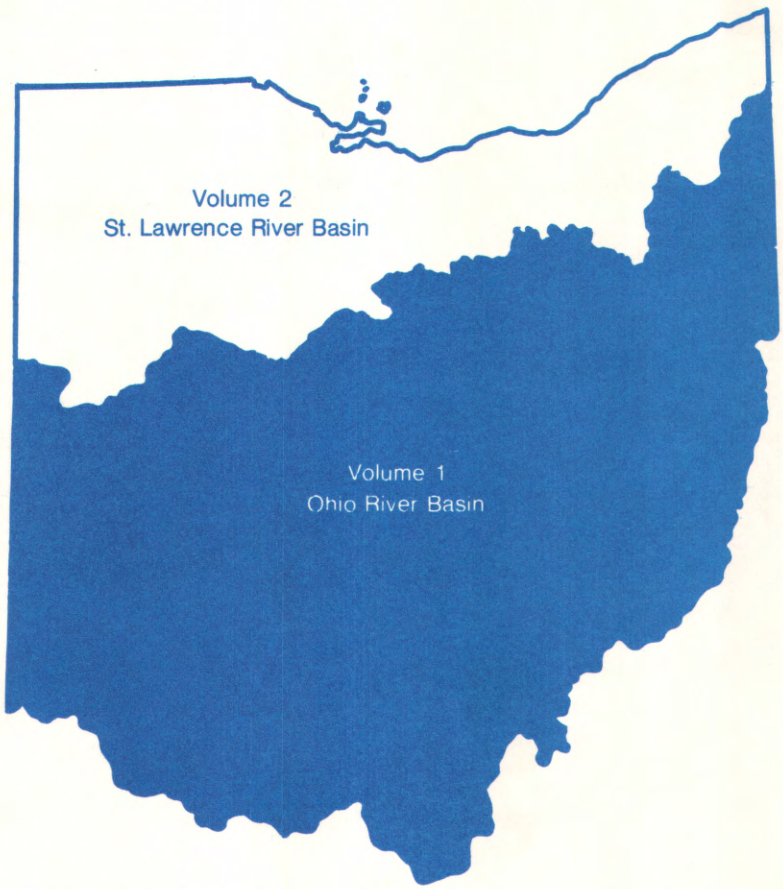
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Water Resources Data Ohio Water Year 1983

Volume 1. Ohio River Basin

U.S. GEOLOGICAL SURVEY
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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-83-1

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

CALENDAR FOR WATER YEAR 1983

1982

OCTOBER

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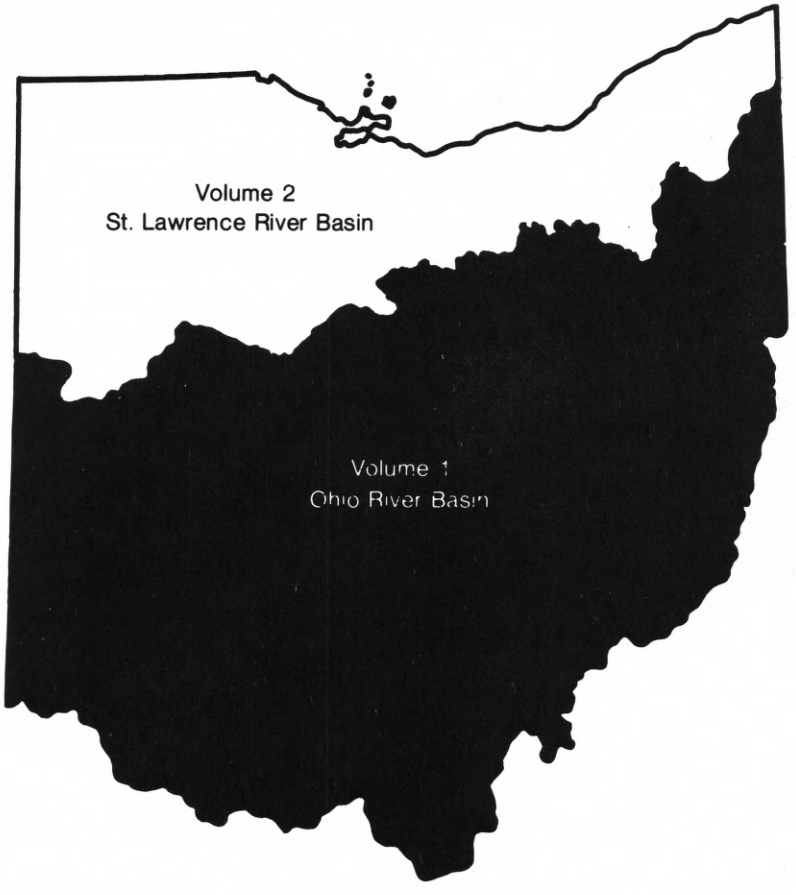
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Water Resources Data
Ohio
Water Year 1983

Volume 1. Ohio River Basin

by Harold L. Shindel, Lawrence L. Stewart, and James R. Kolva



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-83-1
Prepared in cooperation with the State of Ohio
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, 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

1984

PREFACE

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

Volume 1. Ohio River Basin
Volume 2. St. Lawrence River Basin - Statewide Project Data

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

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

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16. Abstract (Limit: 200 words)

Water resources data for the 1983 water year for Ohio consist of records of stage, discharge, and water quality of streams; stage and contents, and water quality 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 135 gaging stations; stage and contents at 35 lakes and reservoirs; water quality at 24 gaging stations, 117 wells and 6 synoptic sites; and water levels at 168 observation wells. Also included are data from 70 crest-stage partial-record stations, 42 low-flow partial-record stations, and 10 miscellaneous sites. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

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

(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)	255
405425082173000	AS-3	Jerome Fork (l)	256
		ATHENS COUNTY	
392004082071600	AT-2A	Athens (l)	257
392009082072200	AT-5	Athens (l)	257
		AUGLAIZE COUNTY	
403233083574500	AU-3	Southwest of New Hampshire (l)	258
		BELMONT COUNTY	
		BUTLER COUNTY	
391805084261800	BU-9	Northwest of Sharonville (l)	258
393202084241500	BU-15	Middletown (l)	258
391904084371800	BU-12	East of Ross (l)	259
392017084345200	BU-7	Fairfield (l)	260
392021084340300	BU-56	Fairfield (l)	261
392048084311400	BU-8	East of Hamilton (l)	262
392445084333000	BU-36	Hamilton (c)	263
392515084322000	BU-5	North of Hamilton (l)	264
392733084293000	BU-16	Southwest of Trenton (l)	265
392939084231700	BU-3	Middletown (l)	266
393103084240900	BU-2	Middletown (l)	267
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403709081052800	C-1	North of Carrollton (l)	268
		CHAMPAIGN COUNTY	
400638083453900	CH-3	Urbana (l)	269
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395639084012200	CL-9	New Carlisle (l)	270
395840083495200	CL-7	Northwest of Springfield (l)	271
		CLERMONT COUNTY	
		COSHOCTON COUNTY	
401256081525100	CS-3	North of Conesville (l)	272
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400514084345700	D-2	East of Greenville (l)	273
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402126083040400	DL-3	Delaware (l)	274
		FAIRFIELD COUNTY	
394257082362900	F-6	Lancaster (l)	275
394544082271000	F-1	West Rushville (l)	276
395053082361900	F-5	Baltimore (l)	277
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393153083322000	FA-1	West of Washington Court House (l)	278
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395118083573300	FR-3	Southwest of Rees (l)	279
395157083003500	FR-109	Columbus (l)	279
400101083021800	FR-10	Columbus (l)	280
		GALLIA COUNTY	
383638082103300	G-2	East of Crown City (l)	280
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394411083561300	GR-1	North of Xenia (l)	281
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		HAMILTON COUNTY	
391003084291500	H-11	Cincinnati (1)	283
391101084172100	H-3	Southeast of Miamiville (1)	283
391201084281600	H-10	Cincinnati (1)	284
391214084470100	H-1	Southeast of Harrison (1)	285
391324084272500	H-9	Cincinnati (1)	286
391341084275300	H-8	Wyoming (1)	286
391442084262900	H-7	Evendale (1)	287
391608084254400	H-6	Glendale (1)	288
391733084392400	H-2	South of Ross (1)	289
391748084393800	H-19	Southwest of Venice (c)	290
391817084393300	H-4	Southwest of Ross (1)	291
		HARDIN COUNTY	
404218083503700	HN-1	Alger (1)	292
		HOCKING COUNTY	
393200082235300	HK-1	Logan (1)	292
		KNOX COUNTY	
402344082300700	K-1	Mt. Vernon (1)	293
		LICKING COUNTY	
400159082282100	LI-2	Heath (1)	294
		MADISON COUNTY	
395301083272200	M-2	London (1)	295
395357083304400	M-4	Northwest of London (1)	296
395740083255700	M-3	North of London (1)	296
		MAHONING COUNTY	
400042080453800	MA-1	Canfield (1)	297
		MARION COUNTY	
403413083170500	MN-4	Southeast of New Bloomington (1)	297
403443083230400	MN-1	LaRue (1)	298
403601083110400	MN-2	West of Marion (1)	299
		MEDINA COUNTY	
410120081431800	MD-3	Wadsworth (1)	300
		MERCER COUNTY	
402833084375200	MR-2	Coldwater (1)	301
		MIAMI COUNTY	
395848084085500	MI-3	Northeast of Tipp City (1)	301
400308084112900	MI-44	Troy (c)	302
		MONTGOMERY COUNTY	
393853084170700	MT-63	Miamisburg (c)	303
393757084173600	MT-928	Miamisburg (c)	304
394012084151700	MT-55	West Carrollton (1)	305
394025084162800	MT-49	West Carrollton (1)	306
394425084113200	MT-3	Dayton (1c)	307
394533084113800	MT-6	Dayton (1)	308
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		PICKAWAY COUNTY	
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393402082572500	PK-4	South of Circleville (1)	310
393638082572300	PK-6	Northwest of Circleville (1)	311
393438083072200	PK-8	Williamsport (1)	312
		PIKE COUNTY	
390359083015100	PI-2	West of Piketon (1)	313
		PORTAGE COUNTY	
411401081025000	PO-1	Windham (1)	314
		PREBLE COUNTY	
394438084335900	PR-2	East of Eaton (1)	315

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		ROSS COUNTY	
391341083172200	RO-7	West of Bainbridge (1)	317
391913082580500	RO-8	Chillicothe (1)	318
		SHELBY COUNTY	
401712084103500	SH-4	Sidney (1)	319
		STARK COUNTY	
404939081203800	ST-5A	Canton (1)	320
405051081244200	ST-28	Northwest of Canton (1)	321
405211081253500	ST-27	North Canton (1)	322
		SUMMIT COUNTY	
410141081315200	SU-4A	Akron (1)	323
		TRUMBULL COUNTY	
411604080505600	T-3	Near Warren (1)	324
		TUSCARAWAS COUNTY	
403207081293800	TU-3	Dover (1)	325
403557081313600	TU-4	Strasburg (1)	325
403653081321800	TU-1	North of Strasburg (1)	326
403823081324200	TU-5	Near Strasburg (1)	327
		UNION COUNTY	
401826083255200	U-4	Southeast of Raymond (1)	328
		VINTON COUNTY	
391452082282900	V-1	McArthur (1)	329
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404802081583100	WN-2A	Near Wooster (1)	333
405745081510200	WN-7	Near Sterling (1)	334
405805081462300	WN-6	Rittman (1)	335

WATER RESOURCES DATA FOR OHIO, 1983

VOLUME 1: OHIO RIVER BASIN
VOLUME 2: ST.LAWRENCE RIVER BASIN
STATE-WIDE PROJECT DATA

INTRODUCTION

Water-resources data for the 1983 water year for Ohio consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report (Volumes 1 and 2) contains discharge records of 135 streamflow-gaging stations, stage and contents of 35 lakes and reservoirs, low-flow data for 42 partial-record stations and 10 miscellaneous sites, peak flow information for 70 crest-stage partial-record stations; water-quality data for 24 streamflow-gaging stations, 117 wells and 6 synoptic sites; plus water levels for 168 observation wells. Locations of lake- and streamflow-gaging stations and water-quality stations are shown in figures 3a, and 3b, locations of crest-stage partial-record stations are shown at figures 3c, and 3d. Locations of observation wells are shown in figures 3e and 3f. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State and Federal agencies of Ohio.

Records of discharge and stage of streams, contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey Water-Supply Papers entitled "Surface-Water Supply of the United States." These water-supply papers were published in an annual series through September 30, 1960, and then in 5-year water-supply papers 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in an annual series of water-supply papers entitled "Ground-water Levels in the United States." Water-supply papers may be purchased from Eastern Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Va. 22304.

Publications similar to this report are published annually by the Geological Survey for all States, Puerto Rico, and Pacific Islands under United States juristiction. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report OH-83-1." 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, including current prices, for ordering specific reports 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-resources records since 1898. Organizations that assist in collecting data in this report are:

Ohio Department of Natural Resources, M.H. Shoemaker, director
Ohio Environmental Protection Agency, R.H. Maynard, director
Ohio Department of Transportation, W.J. Smith, director
Miami Conservancy District, L.B. Coy, general manager and secretary
City of Columbus Department of Public Service, R.C. Parkinson, director
City of Canton Water Department, J.D. Williams, superintendent
Northeast Ohio Areawide Coordinating Agency, S.A. Jones, director
Seneca County Soil and Water District, Gene Baltes, Chief, Quality Lab.

The following Federal and State agencies assisted in the data collection program.

Miami Conservancy District
Corps of Engineers, U.S. Army
Ohio Department of Natural Resources.

Funds or services were provided by the U.S. Army corps of Engineers in collecting records for 130 hydrologic-data stations in this report.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

At the start of the 1983 water year, streamflow was normal throughout the state. November and December streamflow remained in the normal range except in Northwest Ohio where it was excessive.

January streamflow was deficient in Eastern Ohio and normal for the remainder of the State. February streamflow remained normal except the central part of the State where it was deficient.

March streamflow dropped into the deficient range for the entire State, then recovered to the normal range in the Central and Southwest area and became excessive for the remainder of the State in April.

Persistant rain from April 30 to May 3 caused minor flooding throughout the State and produced streamflow in the excessive range for May.

June streamflow returned to the normal range; however heavy rain June 26-27 caused minor flooding in the northwestern part of the State. July streamflow remained in the normal range.

Despite below-normal rainfall, streamflow remained in the normal range throughout August and September with the exception of the southwestern portion of the State, where it fell into the deficient range during September.

Figure 2 compares the 1983 mean discharges at four selected long-term stations with median discharges for the base period 1951-80.

Water Quality

The chemical quality of surface water statewide showed very little change from previous years. The Hocking River below Athens was above the Ohio Environmental Protection Agency's (OEPA) limit for stream quality for dissolved manganese in all samples collected during the water year. Little Mill Creek near Coshocton was above the OEPA limit for dissolved manganese in all samples collected during the water year and for dissolved iron collected in December 1982.

Ground-water samples from counties in Ohio's coal-producing regions contained concentrations of dissolved manganese that exceeded the OEPA limit. Concentrations of dissolved iron that exceeded the OEPA limit were reported for several stations in these areas.

Maumee River at Waterville, Ohio, one of the three major basins that have U.S. Geological Survey Monitors at NASQAN sites, showed slight improvement in specific conductance, ph, dissolved oxygen, and temperature. This change probably was due to higher streamflow. The other two stations--Scioto River at Higby and Cuyahoga River at Independence--showed a drop in dissolved oxygen probably due to extremely dry weather and lower streamflow.

Ground Water

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

As the 1983 water year ended, ground-water levels were fairly normal across the northern part of the State; only a few wells reached record lows, even though the southwestern part of the State was greatly deficient in rainfall.

Overall, the range between high and low water-level extremes throughout the observation well network during water year 1983 was similar to that of water year 1982. Considerable recharge to the state's ground-water aquifers resulted from above normal rainfall in November and December. Despite a mild winter, precipitation was below normal from January through March and the rate of recharge was reduced. Rainfall was above normal in April and May and water levels were at highs for the year in representative wells. The trend of 1983 Water Year lows for the same wells was less distinct. Most lows occurred in August and September 1983; however some lows occured in October and November 1982.

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.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant 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 which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies 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 intestines 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 which produce blue colonies within 24 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 intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus 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).

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 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.

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

Cubic foot per second (FT^3/s, 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.

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

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

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

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

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 river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution area, within the area unless otherwise noted.

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

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

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

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.

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 detergent compounds.

Micrograms per gram (UG/G, ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Microgram per kilogram (UG/KG, ug/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, ug/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 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.

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 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.

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.

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.

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

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.

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.

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

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

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.

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.

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 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 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.

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.

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.

DOWNSTREAM ORDER AND STATION NUMBER

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 on which a station is situated 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.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers no distinction is made between partial-record stations and 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 8-digit number for each station such as 04041000, which appears just to the left of the station name, includes the 2-digit part number "04" plus the 6-digit downstream order number "041000".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1.

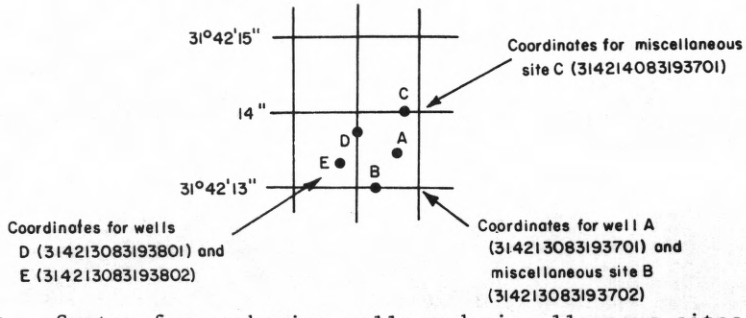


Figure 1 System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

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

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.

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.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

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

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

At some stream-gaging stations, the stage-discharge relation is affected by 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.

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

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

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

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

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30.

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

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given first, the extremes for period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. 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. Occasionally, a series of discharge measurements are made or water-quality samples are taken to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements and chemical analyses are also given in special tables following the tables of partial-record stations.

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected during water year 1978 at many sites in Ohio by the National Weather Service, NOAA, U.S. Department of Commerce, by the Corps of Engineers, U.S. Army, and by other agencies. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, Va. 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, descriptive statements are given; the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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.

Water analysis

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 and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

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, 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 sections.

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 discharges 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 value differs 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 observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

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

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.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 2.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

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; National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the 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 in 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 sucessive 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 only to a tenth of a foot or a larger unit.

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, Virginia.

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 the 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, Virginia 22092

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing 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) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering 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-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-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.

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

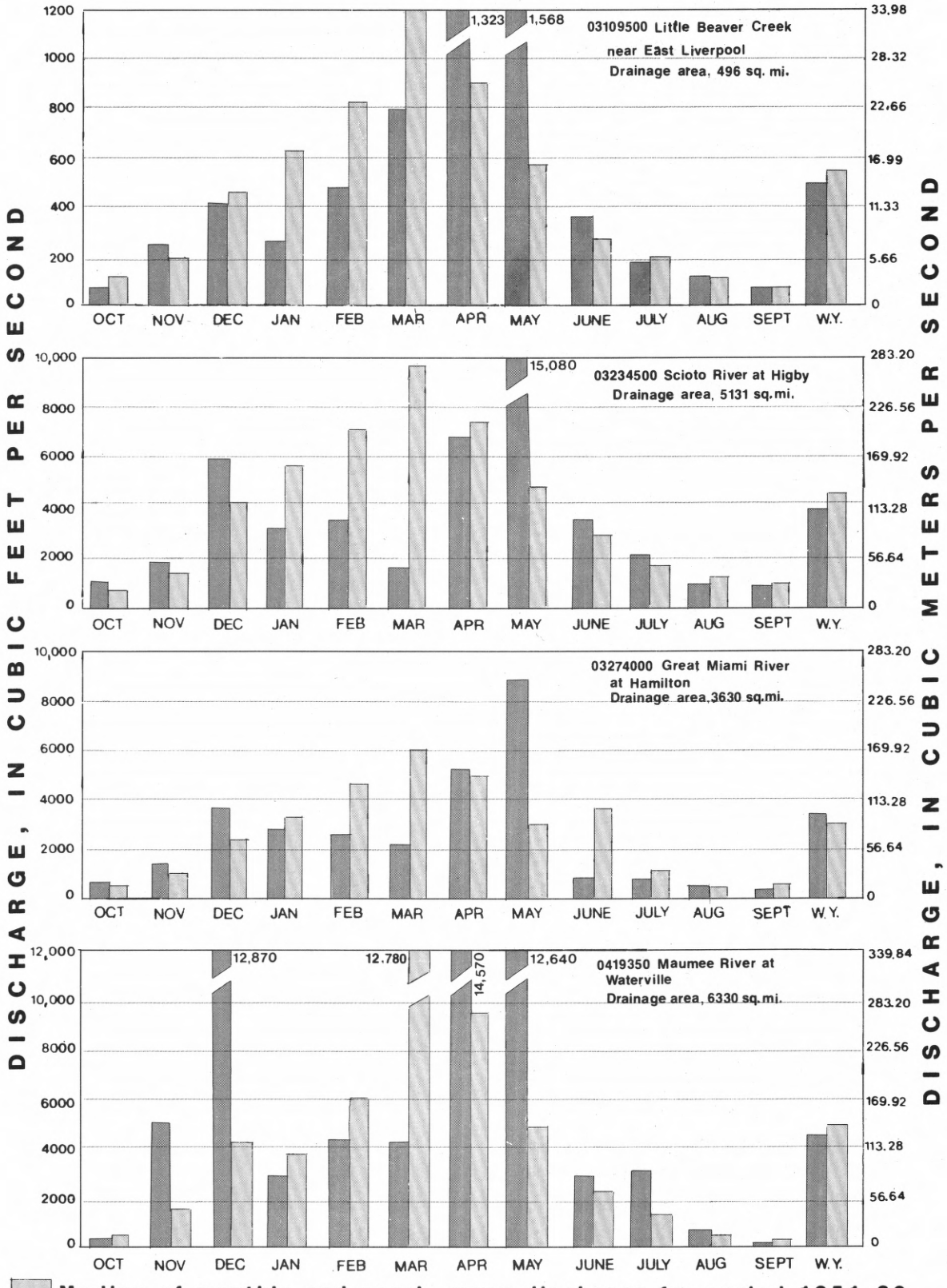


Figure 2.--Runoff during 1983 water year compared with median runoff for period 1951-80 for four representative gaging stations.

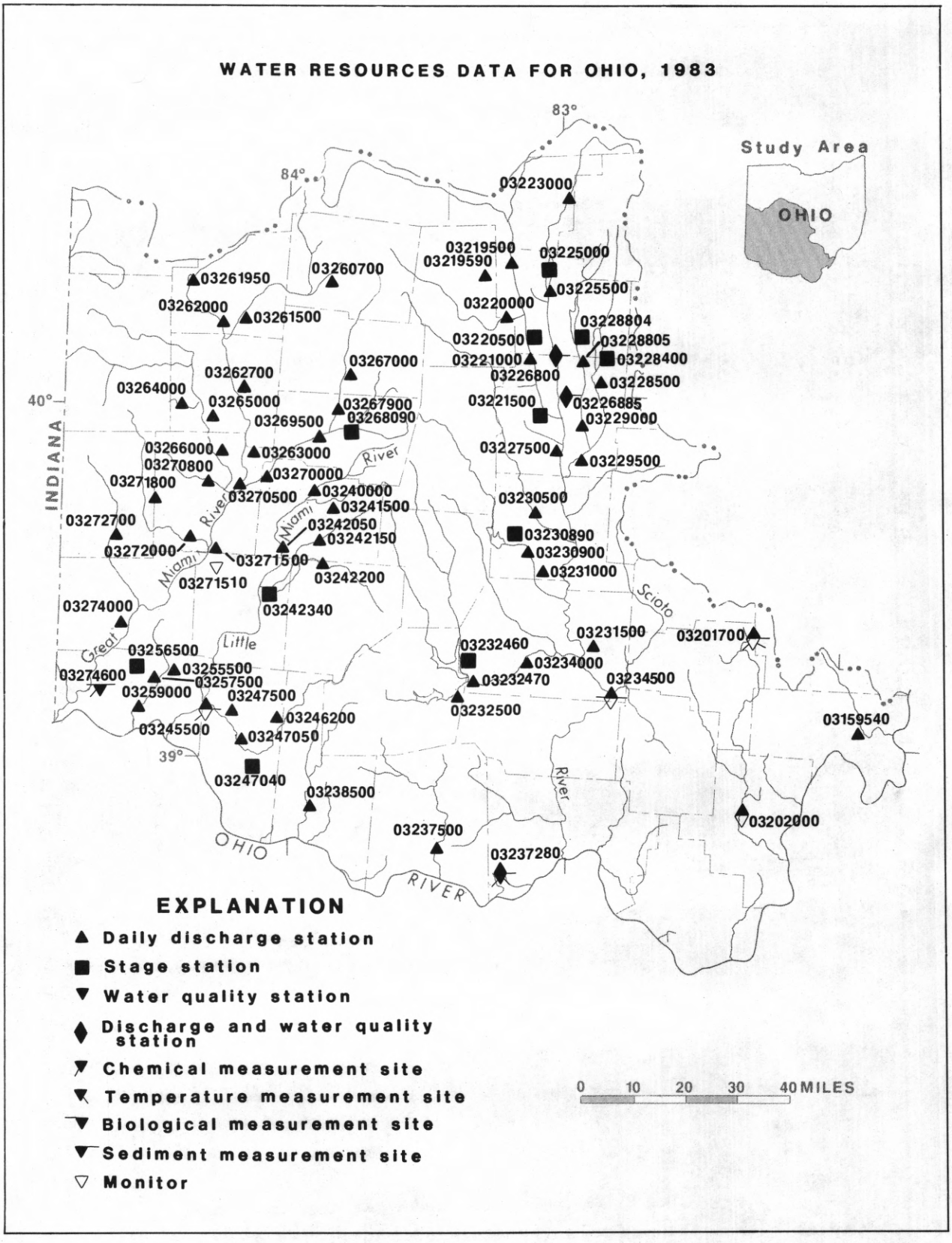


Figure 3a.--Location of data-collection stations excluding crest-stage and low-flow partial record sites and wells.

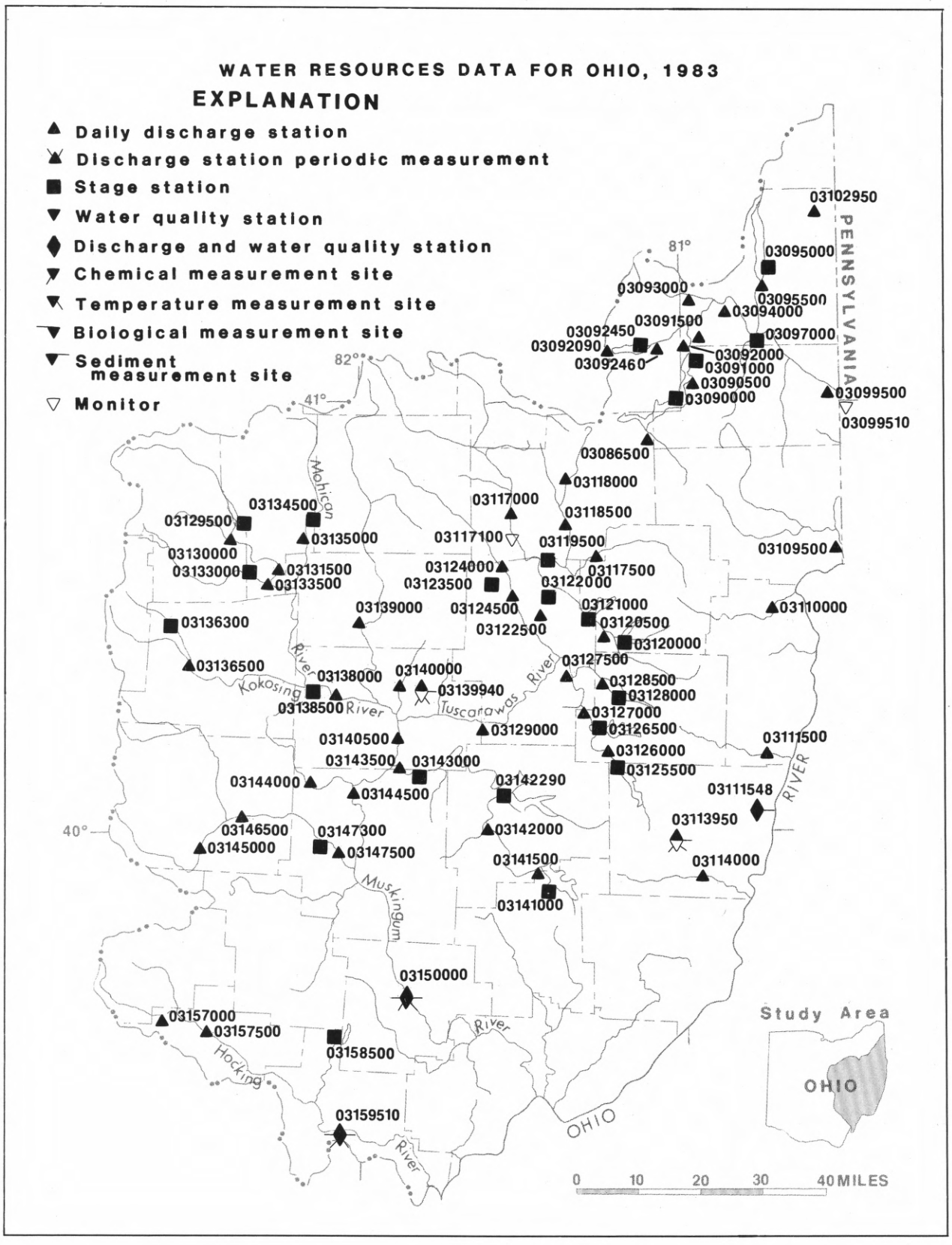


Figure 3b.--Location of data-collection stations excluding crest-stage and low-flow partial record sites and wells.

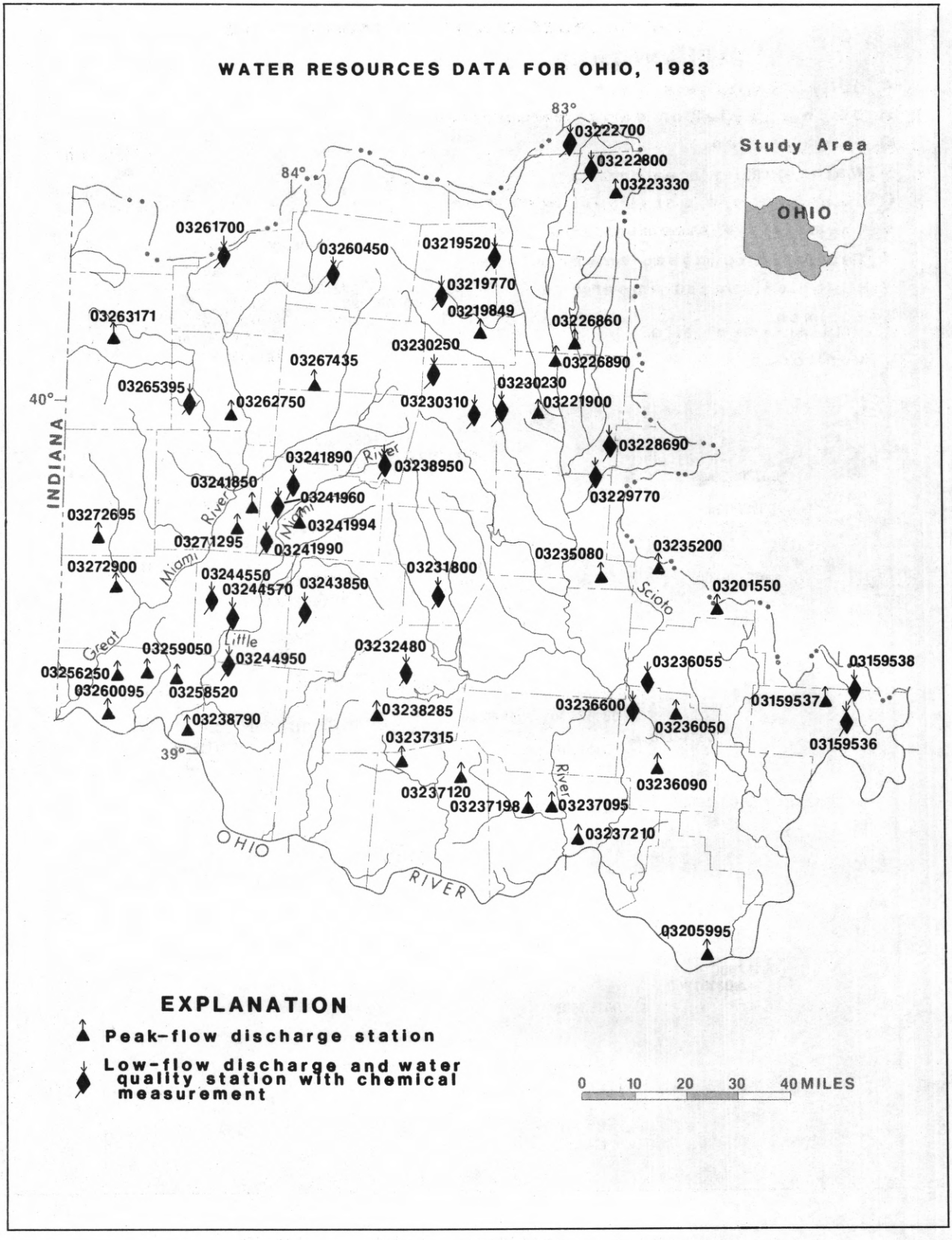


Figure 3c.--Location of crest-stage and low-flow partial record sites.

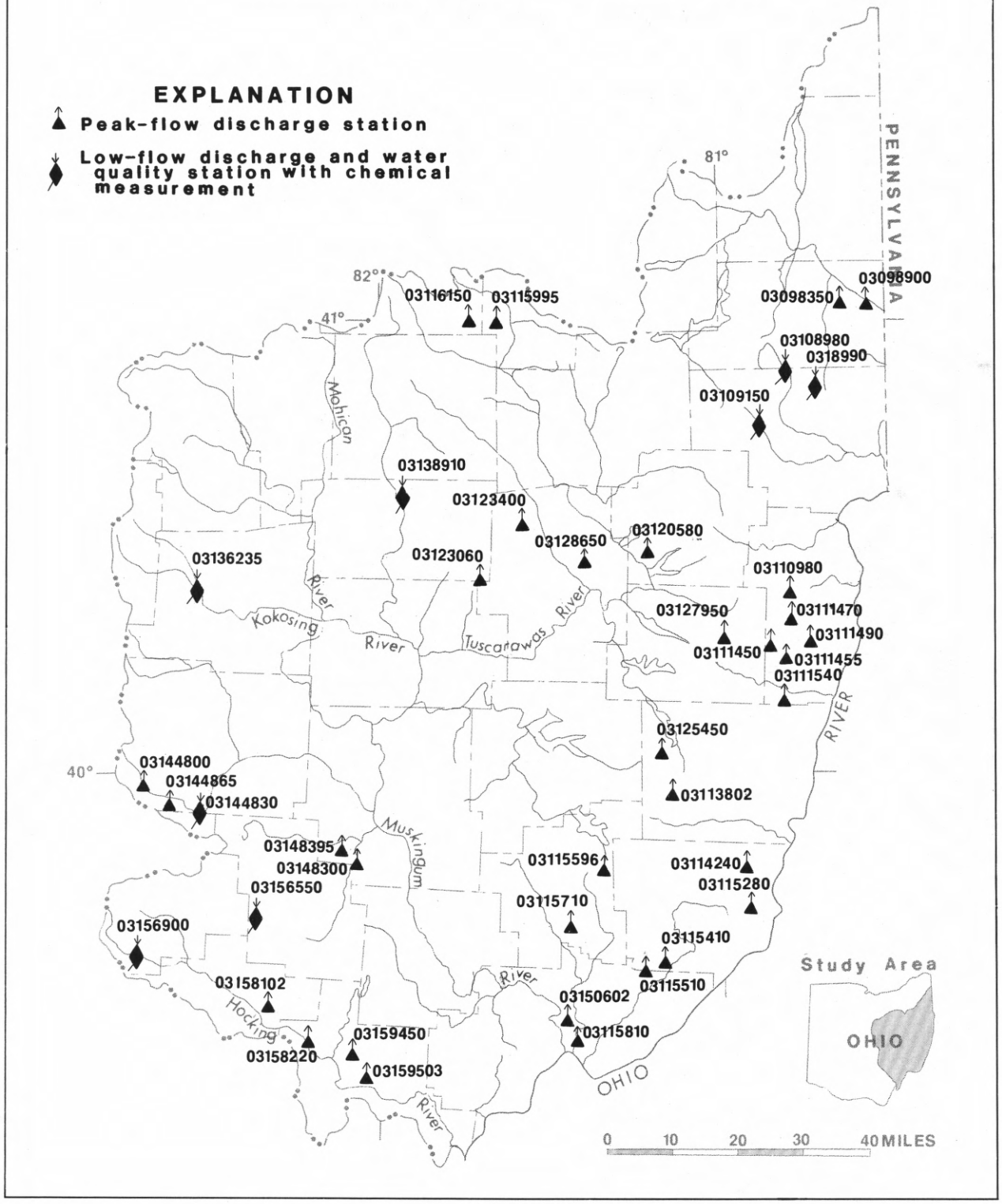


Figure 3d.--Location of crest-stage and low-flow partial record sites.

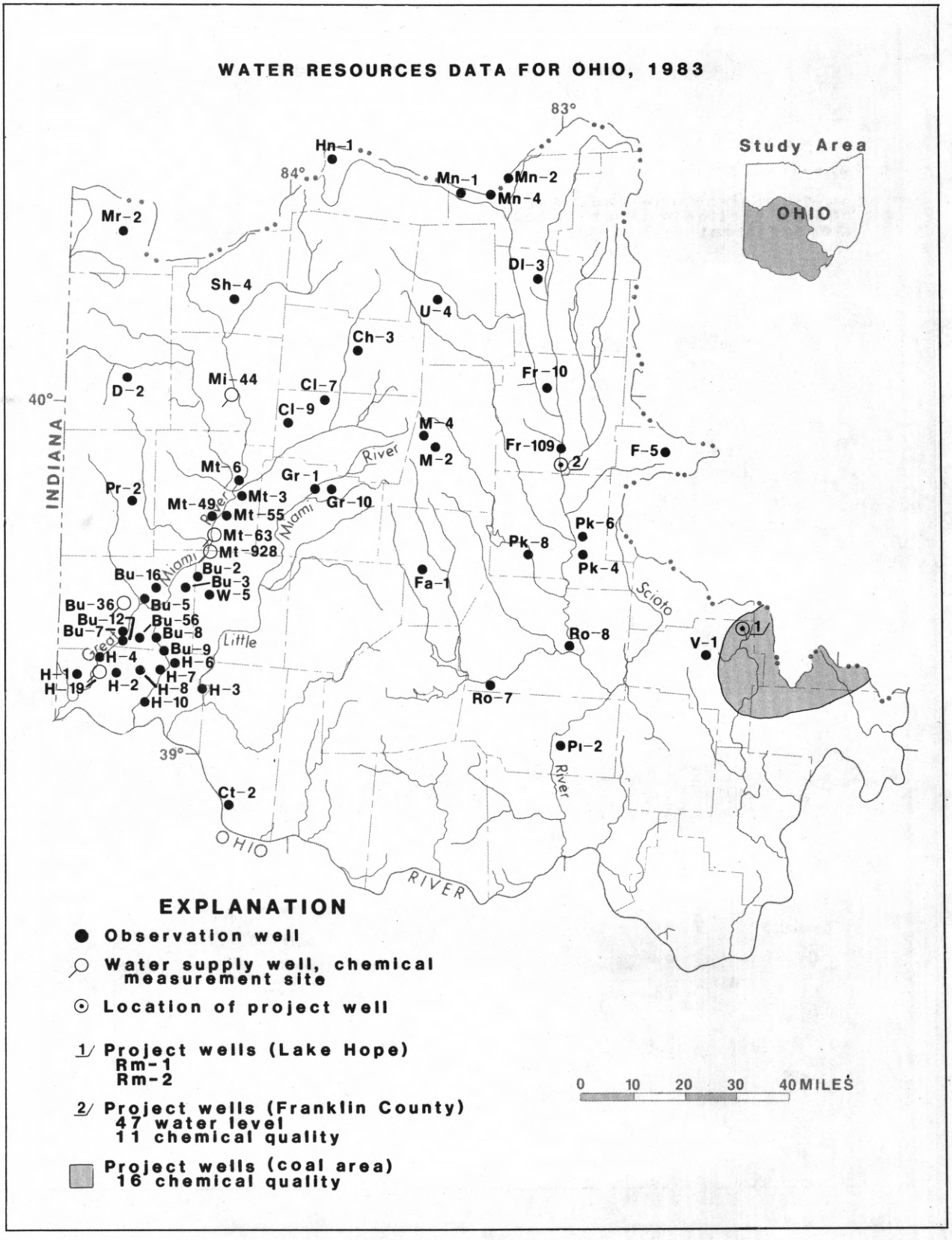


Figure 3e.--Location of wells.

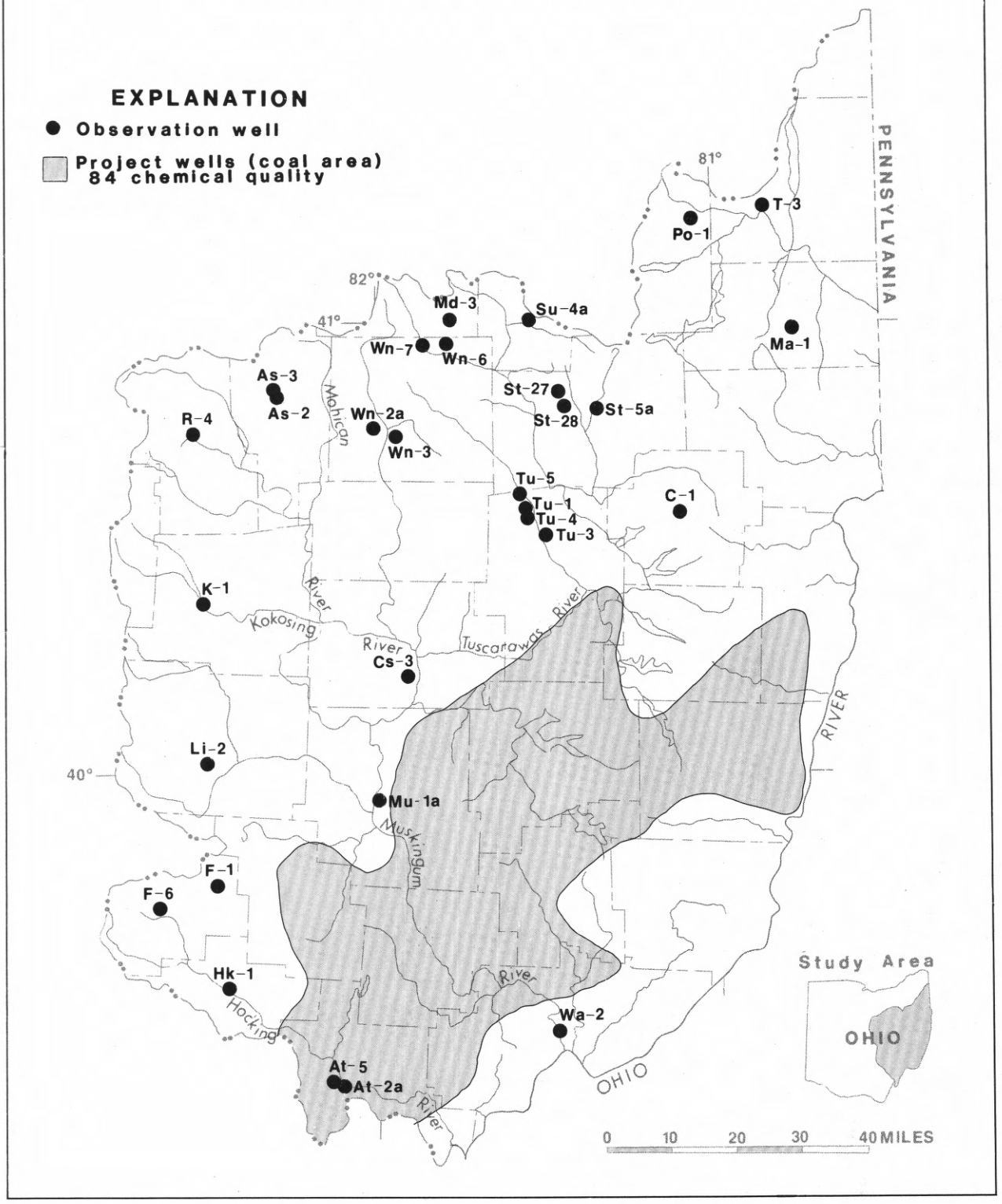


Figure 3f.--Location of wells.

OHIO RIVER BASIN

BEAVER RIVER BASIN

03086500 MAHONING RIVER AT ALLIANCE, OH

LOCATION.--Lat 40°55'58", long 81°05'41", in SE 1/4 sec. 24, T.19 N., R.6 W., Stark County, Hydrologic Unit 05030103, on right bank 15 ft (5 m) upstream from Webb Avenue Bridge in Alliance, 0.2 mi (0.3 km) upstream from waterworks dam, and 4 mi (6 km) upstream from Beech Creek.

DRAINAGE AREA.--89.2 mi^2 (231 km^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 (316.17 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for period of missing record, Jan. 20 to Mar. 15, which are poor. Flow slightly regulated by Westville Reservoir 9.3 mi (15.0 km) upstream from station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--42 years, 89.0 ft^3/s (2.520 m^3/s), 13.55 in/yr (344 mm/yr), unadjusted for diversion 1941-55.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,740 ft^3/s (276 m^3/s) Jan. 21, 1959, gage height, 9.11 ft (2.777 m), from rating curve extended above 3,300 ft^3/s (93.5 m^3/s) on basis of computation of peak flow over dam; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft^3/s (25.5 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 10	1500	1260	35.7	3.72	1.134	May 1	1700	*1740	49.3	*4.32	1.317
Apr. 15	1600	1550	43.9	4.11	1.253						

Minimum daily discharge, 2.4 ft^3/s (0.07 m^3/s) Oct. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	26	121	146	120	30	89	1360	51	31	45	7.2
2	3.0	17	97	116	200	30	81	1270	48	33	19	5.2
3	3.7	17	83	97	320	28	202	1020	48	28	10	5.2
4	5.2	72	75	83	230	28	270	774	94	24	10	4.4
5	8.6	54	72	65	170	28	165	406	94	31	8.6	4.4
6	8.6	31	87	55	120	26	122	210	64	24	13	10
7	3.7	24	87	46	95	26	165	146	54	19	10	39
8	3.7	24	75	39	80	28	181	116	36	15	7.2	10
9	3.7	19	61	36	70	40	252	104	26	15	6.0	6.0
10	3.0	17	45	45	60	70	1020	87	17	13	6.0	5.2
11	3.0	21	57	154	50	150	767	75	19	13	21	4.4
12	2.4	45	57	129	46	220	377	72	26	13	17	5.2
13	2.4	68	39	83	42	190	214	64	31	10	10	4.4
14	4.4	39	39	68	40	260	214	75	15	12	7.2	4.4
15	3.7	33	54	61	38	360	1160	133	26	10	6.0	4.4
16	4.4	33	294	54	48	203	766	205	101	8.6	5.2	10
17	6.0	28	205	48	60	130	293	129	125	10	5.2	12
18	6.0	24	108	33	60	99	199	79	205	10	5.2	5.2
19	28	24	101	34	55	359	155	108	205	12	5.2	4.4
20	33	24	177	34	50	706	128	177	196	10	5.2	5.2
21	39	42	172	34	46	415	102	125	94	10	5.2	36
22	28	94	142	36	42	324	86	168	33	13	5.2	26
23	33	97	200	44	38	180	76	299	28	39	4.4	8.6
24	28	172	533	55	36	140	85	168	24	83	5.2	7.2
25	26	121	352	80	34	111	96	108	26	33	5.2	6.0
26	13	94	253	65	34	87	74	80	24	17	4.4	4.4
27	12	121	249	55	32	102	61	55	21	13	8.6	4.4
28	12	159	400	46	30	325	59	40	24	8.6	5.2	4.4
29	8.6	310	268	46	---	251	85	34	24	8.6	4.4	4.4
30	7.2	177	191	50	---	141	245	133	21	8.6	6.0	4.4
31	7.2	---	172	80	---	106	---	75	---	26	21	---
TOTAL	355.7	2027	4866	2017	2246	5193	7789	7895	1800	601.4	296.8	262.0
MEAN	11.5	67.6	157	65.1	80.2	168	260	255	60.0	19.4	9.57	8.73
MAX	39	310	533	154	320	706	1160	1360	205	83	45	39
MIN	2.4	17	39	33	30	26	59	34	15	8.6	4.4	4.4
CFSM	.13	.76	1.76	.73	.90	1.88	2.92	2.86	.67	.22	.11	.10
IN.	.15	.85	2.03	.84	.94	2.17	3.25	3.29	.75	.25	.12	.11

CAL YR 1982 TOTAL 38086.2 MEAN 104 MAX 1950 MIN 1.1 CFSM 1.17 IN 15.88
WTR YR 1983 TOTAL 35348.9 MEAN 96.8 MAX 1360 MIN 2.4 CFSM 1.09 IN 14.74

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 (183 m) downstream from Berlin Dam, and 3.2 mi (5.1 km) northwest of Berlin Center.

DRAINAGE AREA.--248 mi² (642 km²).

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

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 (291.998 m) National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers). Prior to Oct. 1, 1942, at site 1.8 mi (2.9 km) upstream at datum 966.15 ft (294.482 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Oct 1, 1942, to May 11, 1949, at site 200 ft (61 m) downstream from present site at datum 8.00 ft (2.438 m) lower than present datum.

REMARKS.--Records good. Flow regulated since 1942 by Berlin Lake (see station 03090000). Occasional small diversion during drought periods since 1958 from Berlin Lake to Meander Creek Reservoir (see station 03097000) by the Berlin pipeline; diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

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

AVERAGE DISCHARGE.--53 years, 236 ft³/s (6.684 m³/s) (unadjusted).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Apr. 19, gage height, 3.72 ft (1.134 m); minimum daily discharge, 43 ft³/s (1.22 m³/s) Feb. 4-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	239	265	719	115	44	107	227	157	68	123	136
2	131	239	265	712	87	44	107	318	157	67	123	136
3	131	245	265	712	44	44	108	324	157	67	123	136
4	131	245	265	712	43	44	178	665	149	67	123	136
5	131	245	265	705	43	44	257	1040	108	68	123	129
6	131	245	265	705	43	44	257	1040	73	68	123	121
7	131	245	265	697	43	44	257	1040	72	68	123	121
8	131	245	265	697	43	44	263	1040	72	68	123	113
9	131	219	265	690	43	45	268	1040	72	94	123	103
10	131	185	265	487	43	45	392	1040	127	123	123	103
11	131	185	265	250	43	45	719	1040	185	146	123	103
12	131	181	265	250	43	45	963	1030	187	204	123	103
13	131	181	265	257	43	46	960	1040	188	239	125	103
14	113	181	265	250	43	47	951	1030	163	239	124	113
15	117	181	265	250	43	85	640	1030	134	239	123	113
16	117	142	265	257	43	99	248	1030	104	169	123	114
17	117	105	398	265	44	99	525	1030	72	123	123	115
18	117	93	514	272	44	99	845	838	72	87	123	98
19	117	76	514	272	44	127	1080	642	72	61	123	79
20	115	76	514	272	44	257	1150	472	73	61	123	78
21	115	76	507	265	44	380	1130	296	127	91	123	79
22	115	77	507	257	44	577	1110	296	188	121	123	80
23	115	77	507	250	44	773	1020	296	185	121	122	110
24	115	78	514	181	44	763	805	464	158	116	121	142
25	115	77	514	105	44	750	483	640	129	108	121	142
26	115	77	521	113	44	737	299	399	129	108	121	145
27	160	77	570	113	44	560	212	160	129	108	122	145
28	205	80	620	115	44	255	134	160	131	114	122	145
29	229	80	676	115	---	107	134	160	101	121	128	145
30	245	177	727	115	---	107	136	157	70	121	136	155
31	239	---	727	115	---	107	---	157	---	122	138	---
TOTAL	4284	4629	12570	11175	1333	6507	15738	20141	3741	3577	3840	3541
MEAN	138	154	405	360	47.6	210	525	650	125	115	124	118
MAX	245	245	727	719	115	773	1150	1040	188	239	138	155
MIN	113	76	265	105	43	44	107	157	70	61	121	78
(+)	10.7	10.2	10.0	0	0	0	0	0	0	0	7.63	11.1

CAL YR 1982 TOTAL 77979 MEAN 214 MAX 834 MIN 31 (+) 6.18
WTR YR 1983 TOTAL 91076 MEAN 250 MAX 1150 MIN 43 (+) 4.15

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

03091500 MAHONING RIVER AT PRICETOWN, OH

LOCATION.--Lat 41°07'53", long 80°58'17", in T.2 N., R.5 W., Mahoning County, Hydrologic Unit 05030103, on left bank 0.3 mi (0.5 km) downstream from Milton Dam, 0.5 mi (0.8 km) southwest of Pricetown, and 3 mi (5 km) upstream from Kale Creek.

DRAINAGE AREA.--273 mi^2 (707 km^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 (275.844 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 14, 1929 nonrecording gage at same site and datum.

REMARKS.--Records poor. Flow regulated by Berlin Lake beginning 1942 and Milton Reservoir (see stations 03090000 and 03091000). Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality data collected at this site 1965 to 1977.

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

AVERAGE DISCHARGE.--54 years, 260 ft^3/s (7.363 m^3/s) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,770 ft^3/s (192 m^3/s) Jan. 25, 1937, gage height, 15.01 ft (4.575 m), from rating curve extended above 4,200 ft^3/s (119 m^3/s) on basis of velocity-area studies; minimum daily, 0.4 ft^3/s (0.011 m^3/s) Nov. 9, 1941, Feb. 19, 20, Oct. 11, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) May 15, gage height, 5,21 ft (1.588 m); minimum daily discharge, 52 ft^3/s (1.47 m^3/s) Feb. 23 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	338	308	849	127	52	284	339	175	139	129	138
2	108	338	305	846	129	52	283	613	177	138	129	136
3	108	335	305	842	129	52	284	610	179	138	127	136
4	110	335	305	840	127	53	283	873	177	134	127	138
5	110	335	305	837	127	53	283	1220	173	132	127	138
6	108	332	308	837	127	53	283	1220	173	132	127	138
7	108	332	307	834	124	53	287	1220	171	130	125	140
8	108	329	305	830	124	53	286	1220	168	130	127	136
9	108	329	305	828	124	53	289	1220	166	129	127	136
10	108	451	305	557	124	54	539	1220	164	129	125	138
11	108	653	305	257	124	55	1030	1220	162	130	129	138
12	123	649	305	257	125	54	1180	1220	160	130	127	138
13	119	641	305	257	124	54	1190	1220	158	132	129	138
14	119	638	305	257	98	54	1190	1230	156	130	129	134
15	119	630	305	257	74	53	801	1230	154	134	129	136
16	119	594	307	257	74	53	431	1080	150	134	130	186
17	119	406	449	257	74	53	726	915	148	136	130	294
18	119	196	614	257	74	53	1030	921	144	134	130	320
19	119	80	613	257	74	57	1180	925	140	134	132	373
20	119	80	613	257	74	54	1190	658	136	134	130	416
21	119	80	612	257	74	55	1190	309	132	134	130	470
22	119	80	612	258	65	54	1190	315	130	134	132	570
23	119	80	612	259	52	53	1190	319	132	132	132	560
24	119	81	612	201	52	53	945	483	136	132	132	550
25	119	80	612	127	52	53	471	663	136	132	134	540
26	217	80	612	127	52	54	283	668	140	132	134	379
27	338	80	656	127	52	55	226	394	142	132	134	140
28	338	81	711	127	52	167	150	171	144	130	136	140
29	338	81	774	126	---	462	148	171	142	130	138	140
30	338	205	852	127	---	465	152	171	140	130	138	140
31	338	---	850	127	---	286	---	173	---	130	140	---
TOTAL	4769	8949	14694	12533	2628	2825	18994	24211	4605	4107	4045	7276
MEAN	154	298	474	404	93.9	91.1	633	781	154	132	130	243
MAX	338	653	852	849	129	465	1190	1230	179	139	140	570
MIN	108	80	305	126	52	52	148	171	130	129	125	134

CAL YR 1982 TOTAL 90616 MEAN 248 MAX 867 MIN 33
WTR YR 1983 TOTAL 109636 MEAN 300 MAX 1230 MIN 52

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 (0.6 km) north of Mahoning-Trumbull County line, 1.5 mi (2.4 km) northwest of Pricetown, 2.2 mi (3.5 km) upstream from mouth, and 3.5 mi (5.6 km) south of Newton Falls.

DRAINAGE AREA.--21.9 mi² (56.7 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 914.70 ft (278.800 m) National Geodetic Vertical Datum of 1929. Prior to June 27, 1941, nonrecording gage at same site and datum.

REMARKS.--Records poor. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--43 years, 22.5 ft³/s (0.637 m³/s), 14.39 in/yr (366 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft³/s (110 m³/s) Jan. 21, 1959, gage height, 8.52 ft (2.597 m); no flow at times in 1952-55, 1962-66.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 10	1000	*586	16.6	*4.95	1.509	Apr. 15	0800	586	16.6	4.95	1.509

Minimum daily discharge, 0.12 ft³/s) (0.003 m³/s) July 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.98	2.1	24	17	26	12	16	319	5.9	6.1	1.1	1.4
2	.68	2.7	16	15	103	11	14	287	4.8	5.0	1.2	1.5
3	.49	2.4	13	14	166	11	27	135	4.2	4.0	1.0	1.1
4	.41	5.0	11	12	65	10	46	140	7.1	1.8	.80	.82
5	.37	7.6	10	10	35	10	27	45	7.3	.98	.70	.82
6	.30	5.5	16	9.0	28	9.5	20	25	5.0	.80	1.9	.82
7	.33	3.7	18	8.5	22	9.0	53	16	4.2	.56	1.6	2.2
8	.37	2.8	12	8.0	19	14	113	13	3.5	.44	1.2	8.5
9	.41	2.4	9.8	7.5	16	56	55	12	2.9	.36	1.0	4.0
10	.45	2.0	8.2	7.0	14	61	435	11	2.5	.30	.90	2.5
11	.41	2.1	7.8	41	12	112	101	8.7	2.2	.26	1.4	1.8
12	.41	4.8	7.3	39	9.0	99	43	7.3	1.8	.24	2.4	1.8
13	.37	16	6.9	23	7.0	83	26	6.7	1.4	.20	2.9	1.4
14	.37	12	6.5	18	6.0	136	30	6.1	1.5	.18	2.4	1.2
15	.33	8.2	9.5	15	17	112	427	7.3	1.2	.16	1.6	.90
16	.37	6.5	183	13	23	48	66	20	.98	.15	1.0	.98
17	.37	5.9	68	11	60	31	27	15	1.1	.14	.85	3.4
18	.33	5.4	24	9.0	38	25	22	9.8	1.5	.13	.65	3.4
19	.33	5.0	19	8.0	28	184	21	8.7	2.0	.12	.50	2.6
20	.33	4.8	36	7.0	23	195	17	14	1.8	.12	.44	2.1
21	.30	5.7	39	6.5	20	88	14	11	2.0	.19	.38	3.0
22	.27	14	29	6.0	18	62	12	14	1.9	.75	.32	5.0
23	.27	20	84	13	18	27	11	81	1.3	1.4	.28	3.9
24	.27	37	304	34	17	22	11	30	.90	3.8	.26	2.7
25	.24	32	83	33	16	17	12	14	.68	3.7	.24	1.8
26	.27	15	48	23	15	14	11	10	.49	1.9	.22	1.4
27	.27	22	48	17	14	16	9.8	8.5	.41	1.2	.22	1.2
28	.33	28	152	14	13	123	8.7	6.5	1.1	.68	.20	1.0
29	.33	175	60	12	---	56	8.5	5.5	11	.68	.20	.84
30	.37	61	29	16	---	25	21	8.0	4.3	.68	.24	.64
31	.33	---	20	41	---	19	---	6.7	---	.82	.82	---
TOTAL	11.66	516.6	1402.0	507.5	848.0	1697.5	1705.0	1301.8	86.96	37.84	28.92	64.72
MEAN	.38	17.2	45.2	16.4	30.3	54.8	56.8	42.0	2.90	1.22	.93	2.16
MAX	.98	175	304	41	166	195	435	319	11	6.1	2.9	8.5
MIN	.24	2.0	6.5	6.0	6.0	9.0	8.5	5.5	.41	.12	.20	.64
CFSM	.02	.79	2.06	.75	1.38	2.50	2.59	1.92	.13	.06	.04	.10
IN.	.02	.88	2.38	.86	1.44	2.88	2.90	2.21	.15	.06	.05	.11

CAL YR 1982 TOTAL 8844.06 MEAN 24.2 MAX 450 MIN .03 CFSM 1.11 IN 15.02
WTR YR 1983 TOTAL 8208.50 MEAN 22.5 MAX 435 MIN .12 CFSM 1.03 IN 13.94

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 (4.0 km) east of Ravenna.

DRAINAGE AREA.--21.8 mi² (56.5 km²).

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

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

REMARKS.--Records fair except those for period affected by beaver dam, Aug. 12 to Sept. 30, which are poor. Water-quality data collected at this site 1966 to 1978.

AVERAGE DISCHARGE.--18 years, 27.8 ft³/s (0.787 m³/s), 17.32 in/yr (440 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft³/s (79.6 m³/s) Sept. 14, 1979, inside gage height 8.63 ft (2.630 m), outside gage height, 9.34 ft (2.847 m); minimum, 0.29 ft³/s (0.008 m³/s) Aug. 18, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 494 ft³/s (14.0 m³/s) Apr. 10, gage height, 4.73 ft (1.442 m), above base of 450 ft³/s (12.7 m³/s); minimum daily discharge, 0.90 ft³/s (0.025 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	20	30	17	16	8.6	20	140	12	14	6.1	5.3
2	3.4	18	24	14	83	8.4	18	183	10	136	5.7	2.6
3	2.3	12	20	13	119	8.2	36	207	10	36	3.0	1.2
4	1.8	30	18	11	44	7.9	50	176	13	15	2.6	1.0
5	1.4	24	20	8.4	24	7.3	31	65	10	16	7.9	1.2
6	1.0	15	45	7.5	19	6.9	25	36	11	11	13	1.8
7	1.2	11	30	7.0	15	7.3	45	26	12	7.4	6.5	30
8	2.0	8.9	20	6.5	13	18	48	22	9.4	4.1	5.3	7.0
9	2.6	7.4	16	6.5	10	117	70	20	9.4	3.4	4.9	4.0
10	2.0	6.9	14	16	8.0	60	331	16	6.9	3.4	5.3	3.0
11	1.8	13	13	66	6.0	81	89	14	5.7	2.6	11	2.6
12	1.5	22	13	36	5.0	70	49	12	5.7	2.3	11	2.0
13	1.5	25	11	23	4.2	71	33	12	4.1	2.0	6.0	1.5
14	1.4	17	10	17	3.4	120	62	17	3.4	1.8	4.4	1.0
15	1.5	13	38	14	4.1	104	277	36	4.1	1.8	3.4	.90
16	1.8	11	198	12	8.4	45	68	55	4.5	1.8	2.8	2.4
17	3.0	10	62	11	24	29	40	25	4.5	3.4	2.2	9.0
18	3.4	9.4	29	9.5	15	25	38	17	5.7	5.7	1.9	5.0
19	3.4	8.4	24	8.5	14	115	45	24	6.9	9.4	1.8	3.0
20	3.0	8.4	34	7.5	13	114	37	32	6.1	9.4	1.6	4.0
21	2.6	20	32	7.0	11	82	26	20	5.3	8.9	1.5	10
22	2.3	34	27	8.9	11	55	21	113	3.7	11	1.4	7.0
23	2.3	30	134	22	11	32	18	111	2.6	57	1.4	4.6
24	2.6	70	293	45	10	27	16	39	1.8	185	1.3	3.6
25	3.0	41	85	28	10	21	15	24	1.8	24	1.3	3.0
26	2.3	26	55	19	10	18	13	26	1.4	10	1.3	2.0
27	2.3	28	71	16	8.9	23	14	18	2.6	5.3	1.3	2.4
28	3.4	52	170	12	8.8	124	11	14	33	3.7	6.1	3.2
29	3.0	104	60	7.9	---	62	12	15	46	3.4	4.9	4.6
30	3.0	49	30	21	---	33	42	20	16	3.4	11	5.5
31	2.6	---	21	32	---	25	---	16	---	6.1	18	---
TOTAL	72.0	744.4	1647	530.2	528.8	1525.6	1600	1551	268.6	604.3	155.9	134.40
MEAN	2.32	24.8	53.1	17.1	18.9	49.2	53.3	50.0	8.95	19.5	5.03	4.48
MAX	3.4	104	293	66	119	124	331	207	46	185	18	30
MIN	1.0	6.9	10	6.5	3.4	6.9	11	12	1.4	1.8	1.3	.90
CFSM	.11	1.14	2.44	.78	.87	2.26	2.45	2.29	.41	.89	.23	.21
IN.	.12	1.27	2.81	.90	.90	2.60	2.73	2.65	.46	1.03	.27	.23

CAL YR 1982 TOTAL 10463.45 MEAN 28.7 MAX 470 MIN .43 CFSM 1.32 IN 17.85
WTR YR 1983 TOTAL 9362.20 MEAN 25.6 MAX 331 MIN .90 CFSM 1.17 IN 15.98

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 (61 m) upstream from bridge on Wayland Road, 0.4 mi (0.6 km) downstream from Michael J. Kirwan Dam, and 0.2 mi (0.3 km) south of Wayland.

DRAINAGE AREA.--81.7 mi^2 (212 km^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 926.44 ft (282.379 m) National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers). Prior to October 1971 at datum 0.89 ft (0.271 m) higher.

REMARKS.--Records good except those for period of beaver activity, Oct. 28 to Nov. 30, which are fair. Flow completely regulated by Michael J. Kirwan Reservoir (see station 03092450). Water-quality data collected at this site 1969 to 1977.

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

AVERAGE DISCHARGE.--15 years, 106 ft^3/s (3.002 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) Feb. 25, 1971, gage height, 11.82 ft (3.603 m) present datum; minimum daily, 2.5 ft^3/s (0.071 m^3/s) Apr. 9, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 510 ft^3/s (14.4 m^3/s) Apr. 21, gage height, 7.25 ft (2.210 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Oct. 16 to Nov. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	21	29	112	43	22	192	69	82	91	207	134
2	39	21	29	112	40	22	194	92	82	96	207	131
3	39	21	26	112	28	22	196	93	82	91	206	130
4	29	21	25	112	25	22	195	144	83	91	206	128
5	21	21	27	111	24	22	195	251	65	91	210	105
6	22	21	27	111	24	22	195	301	47	91	207	80
7	22	21	27	111	24	29	202	301	47	106	206	60
8	22	21	27	110	24	38	199	301	42	127	206	35
9	22	21	27	110	24	40	201	301	60	128	206	52
10	22	21	27	111	24	40	220	299	79	129	206	76
11	23	21	27	114	24	35	247	299	80	148	206	76
12	23	21	26	111	24	24	303	299	88	169	206	76
13	23	21	26	111	23	25	302	298	97	169	205	75
14	23	21	26	110	23	23	311	299	97	170	203	75
15	23	21	28	110	23	23	199	300	98	170	202	75
16	21	21	32	110	24	22	51	302	99	172	201	55
17	21	21	26	110	24	22	133	300	100	174	199	34
18	21	21	26	110	23	22	347	299	100	174	198	33
19	21	21	26	110	23	30	508	300	100	162	198	33
20	21	21	28	109	23	24	508	251	100	176	197	32
21	21	23	27	109	23	25	508	200	100	186	196	33
22	21	25	26	109	23	46	388	204	101	205	216	32
23	21	25	34	109	23	74	200	205	100	208	241	32
24	21	25	30	110	23	73	144	201	109	165	239	32
25	21	25	27	81	23	73	66	201	120	93	220	31
26	21	25	26	43	23	73	46	144	120	151	189	47
27	21	25	45	43	22	75	45	83	121	206	188	68
28	21	25	85	43	22	80	41	82	128	205	188	68
29	21	25	114	43	---	127	45	83	126	205	185	69
30	21	25	112	44	---	190	48	83	104	206	186	69
31	21	---	112	44	---	191	---	82	---	206	160	---
TOTAL	727	668	1180	2995	696	1556	6429	6667	2757	4761	6290	1976
MEAN	23.5	22.3	38.1	96.6	24.9	50.2	214	215	91.9	154	203	65.9
MAX	39	25	114	114	43	191	508	302	128	208	241	134
MIN	21	21	25	43	22	22	41	69	42	91	160	31

CAL YR 1982 TOTAL 39632 MEAN 109 MAX 430 MIN 20
WTR YR 1983 TOTAL 36702 MEAN 101 MAX 508 MIN 21

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 (23 m) downstream from county road bridge, 1 mi (2 km) north of Phalanx Station, 2 mi (3 km) downstream from Tinkers Creek, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--97.6 mi^2 (253 km^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 (270.400 m) 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 (0.085 m) higher.

REMARKS.--Records 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 measurements furnished by the Corps of Engineers.

AVERAGE DISCHARGE.--54 years, 110 ft^3/s (3.115 m^3/s), 15.31 in/yr (389 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,150 ft^3/s (231 m^3/s) Sept. 15, 1979, gage height, 13.71 ft (4.179 m); minimum daily, 0.9 ft^3/s (0.025 m^3/s) Aug. 4, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,430 ft^3/s (40.5 m^3/s) Apr. 15, gage height 10.09 ft (3.075 m) above base of 1,300 ft^3/s (36.8 m^3/s); minimum daily 13 ft^3/s (0.37 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	32	128	105	128	46	103	607	86	193	28	66
2	18	40	76	89	199	44	92	761	80	314	28	28
3	16	30	57	82	568	43	128	918	67	472	24	20
4	14	59	48	69	469	42	207	1070	79	128	23	18
5	13	100	48	61	191	42	153	628	79	103	26	17
6	14	43	95	55	134	42	115	330	74	73	60	20
7	15	29	102	55	124	42	138	209	105	49	32	103
8	16	26	60	50	107	44	205	153	70	40	25	75
9	21	27	45	50	90	134	153	146	54	36	22	29
10	16	30	38	48	88	186	756	116	46	34	20	22
11	18	34	35	210	80	324	845	96	43	31	23	19
12	17	41	34	264	69	376	367	83	42	31	36	19
13	19	59	31	134	65	294	192	74	38	31	26	18
14	19	42	30	102	59	377	164	68	35	28	22	17
15	19	29	41	96	63	404	915	111	34	27	19	17
16	21	25	423	87	75	242	763	289	32	26	19	17
17	22	22	651	78	148	133	283	215	66	26	18	37
18	17	21	228	65	134	102	200	114	55	27	18	32
19	15	20	130	55	102	245	165	103	39	26	18	22
20	17	20	149	50	86	621	125	226	40	29	17	18
21	18	25	163	48	74	430	95	157	38	27	17	22
22	20	80	138	46	67	416	77	204	33	38	17	40
23	19	65	215	72	63	202	64	667	30	42	16	25
24	18	152	870	146	59	148	59	388	28	193	16	20
25	17	194	894	139	56	115	57	174	26	71	15	18
26	18	81	399	103	51	95	52	162	24	36	15	18
27	18	76	261	82	47	96	44	125	24	29	15	18
28	21	76	588	74	46	331	40	93	121	26	15	18
29	24	316	584	62	---	471	41	78	697	25	48	17
30	22	313	242	76	---	212	166	146	487	24	25	17
31	23	---	143	180	---	129	---	119	---	24	40	---
TOTAL	565	2107	6946	2833	3442	6428	6764	8630	2672	2259	743	827
MEAN	18.2	70.2	224	91.4	123	207	225	278	89.1	72.9	24.0	27.6
MAX	24	316	894	264	568	621	915	1070	697	472	60	103
MIN	13	20	30	46	46	42	40	68	24	24	15	17
CFSM	.19	.72	2.30	.94	1.26	2.12	2.31	2.85	.91	.75	.25	.28
IN.	.22	.80	2.65	1.08	1.31	2.45	2.58	3.29	1.02	.86	.28	.32

CAL YR 1982 TOTAL 52764 MEAN 145 MAX 2350 MIN 12 CFSM 1.49 IN 20.11
WTR YR 1983 TOTAL 44216 MEAN 121 MAX 1070 MIN 13 CFSM 1.24 IN 16.85

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 (91 m) downstream from Duck Creek and 1.2 mi (1.9 km) downstream from Eagle Creek.

DRAINAGE AREA.--575 mi^2 (1,489 km^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 (265.557 m) 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 (15 m) downstream at same datum.

REMARKS.--Records good. Flow regulated by Berlin Lake, 25 mi (40 km) upstream, beginning in 1942, by Milton Reservoir, 17 mi (27 km) upstream, and by Michael J. Kirwan Reservoir, 20 mi (32 km) upstream on West Branch, beginning in 1966 (see stations 03090000, 03091000 and 03092450). Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality data collected at this site 1943 to 1971.

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

AVERAGE DISCHARGE.--43 years, 578 ft^3/s (16.37 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft^3/s (575 m^3/s) Jan. 22, 1959, gage height, 19.37 ft (5.904 m); minimum daily, 60 ft^3/s (1.70 m^3/s) July 6, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of about 24 ft (7 m). Flood of Jan. 25 or 26, 1937 reached a stage of 17.8 ft (5.43 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,850 ft^3/s (109 m^3/s) Apr. 15, gage height 9.84 ft (2.999 m); minimum daily, 131 ft^3/s (3.71 m^3/s) Feb. 28, Mar. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	435	663	1100	467	131	697	1420	344	598	327	334
2	185	470	559	1100	611	140	667	2560	325	689	326	292
3	182	454	512	1000	1210	140	739	2680	311	772	318	277
4	173	478	483	980	1070	140	932	2900	344	487	322	271
5	170	516	470	940	611	140	836	2570	351	370	337	268
6	161	474	512	920	446	140	743	2010	293	340	365	247
7	164	439	568	880	408	150	806	1750	296	304	345	307
8	161	427	508	860	377	160	1170	1640	272	311	324	310
9	164	419	470	820	329	170	975	1610	244	311	315	231
10	173	419	450	760	300	220	2170	1570	258	304	308	236
11	167	663	439	774	280	350	3030	1540	268	296	329	245
12	167	726	431	850	260	800	2290	1510	261	314	327	240
13	176	739	423	680	248	700	1890	1500	268	318	320	236
14	167	722	416	591	230	970	1780	1490	265	318	310	233
15	167	710	466	570	211	984	3220	1530	261	322	303	231
16	170	689	1030	551	234	681	2690	1710	261	322	300	246
17	170	593	1360	523	381	423	1370	1440	272	322	298	375
18	170	389	1110	496	400	329	1420	1270	296	329	298	390
19	167	167	893	470	318	637	1830	1250	279	344	298	397
20	170	134	933	440	272	1490	1860	1320	279	318	296	431
21	170	152	999	450	241	1100	1800	789	272	325	294	486
22	170	234	937	482	217	943	1760	726	261	336	294	641
23	167	279	1050	506	188	645	1560	1260	254	374	317	639
24	167	348	2050	601	173	483	1430	1230	248	454	322	621
25	167	446	2220	554	161	408	873	1030	258	393	321	612
26	170	311	1440	422	152	351	529	948	258	286	302	590
27	348	279	1110	340	140	344	458	776	258	311	290	301
28	393	329	1500	304	131	701	333	385	374	325	290	263
29	389	710	1600	293	---	1200	300	336	781	322	312	260
30	389	772	1300	326	---	1170	466	396	916	318	313	259
31	393	---	1200	494	---	760	---	389	---	322	349	---
TOTAL	6335	13923	28102	20077	10066	17000	40624	43535	9628	11455	9770	10469
MEAN	204	464	907	648	360	548	1354	1404	321	370	315	349
MAX	393	772	2220	1100	1210	1490	3220	2900	916	772	365	641
MIN	161	134	416	293	131	131	300	336	244	286	290	231

CAL YR 1982 TOTAL 224010 MEAN 614 MAX 4000 MIN 134
WTR YR 1983 TOTAL 220984 MEAN 605 MAX 3220 MIN 131

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 (30 m) downstream from Mosquito Creek Dam, 0.8 mi (1.3 km) upstream from Confusion Run, and 2.5 mi (4.0 km) southwest of Cortland.

DRAINAGE AREA.--97.5 mi^2 (253 km^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 (266.389 m) Corps of Engineers bench mark. Prior to Aug. 23, 1943, nonrecording gage, and Aug. 23, 1943 to Feb. 14, 1951, water-stage recorder, at site 900 ft (274 m) downstream at datum 6.63 ft (2.021 m) lower.

REMARKS.--Records good. Flow completely regulated by Mosquito Creek Lake beginning 1943 (see station 03095000). Diversion at lake outlet for municipal supply of city of Warren since May 1954; diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

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

AVERAGE DISCHARGE.--43 years, 87.5 ft^3/s (2.478 m^3/s) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Jan. 19, 1929, gage height, 11.5 ft (3.51 m), from floodmark, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 ft^3/s (28.9 m^3/s) May 9, gage height, 4.44 ft (1.353 m), minimum daily 6.8 ft^3/s (0.19 m^3/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	22	24	86	22	21	90	107	31	90	90	52
2	23	22	24	86	22	21	90	187	32	90	90	52
3	23	22	24	86	22	21	90	188	29	91	90	52
4	23	22	23	86	22	21	90	412	27	91	90	53
5	23	22	24	86	24	21	90	665	27	91	90	53
6	23	22	24	86	24	21	90	724	29	91	90	53
7	23	22	24	86	24	21	90	735	31	91	90	38
8	23	20	24	86	24	21	91	731	30	91	90	23
9	23	17	24	86	24	21	91	760	30	91	70	23
10	23	17	20	86	24	22	91	733	29	91	50	23
11	23	17	20	86	24	22	136	734	29	91	50	22
12	23	17	20	86	24	21	184	735	28	91	50	22
13	23	17	20	86	24	21	183	438	28	91	51	22
14	24	17	20	86	24	21	182	91	26	91	52	22
15	23	17	20	86	24	21	92	91	25	91	52	22
16	23	17	20	86	24	21	53	92	27	91	52	22
17	23	17	20	86	24	21	136	92	26	91	52	22
18	22	17	21	86	24	21	281	93	27	91	52	22
19	22	17	21	86	24	22	348	93	26	91	52	22
20	22	16	21	86	24	22	345	59	26	91	53	22
21	22	49	21	86	24	22	337	24	26	91	53	23
22	22	83	21	86	24	23	334	25	26	90	30	23
23	23	65	21	86	24	23	261	26	26	90	7.2	23
24	23	35	21	53	24	22	136	27	57	90	6.8	20
25	23	23	21	22	24	22	57	27	88	90	38	23
26	23	22	21	22	24	23	24	26	89	90	88	23
27	23	22	21	22	24	23	24	26	89	90	88	23
28	22	22	53	22	24	23	24	27	90	90	88	23
29	21	23	86	22	---	23	24	27	90	90	88	23
30	22	23	86	22	---	56	25	27	90	90	65	21
31	22	---	86	23	---	90	---	28	---	90	51	---
TOTAL	704	744	896	2186	664	774	4089	8050	1234	2809	1959.0	867
MEAN	22.7	24.8	28.9	70.5	23.7	25.0	136	260	41.1	90.6	63.2	28.9
MAX	24	83	86	86	24	90	348	760	90	91	90	53
MIN	21	16	20	22	22	21	24	24	25	90	6.8	20
(+)	22.3	21.9	22.0	23.7	24.6	24.1	22.9	22.1	24.3	25.4	26.4	26.1

CAL YR 1982 TOTAL 34700.0 MEAN 95.1 MAX 189 MIN 16 (+) 22.8
WTR YR 1983 TOTAL 24976.0 MEAN 68.4 MAX 760 MIN 6.8 (+) 23.8

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

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 (30 m) upstream from First Street Bridge at Lowellville, 1 mi (2 km) upstream from Ohio-Pennsylvania State line, and 3 mi (5 km) downstream from Yellow Creek.

DRAINAGE AREA.--1,073 mi^2 (2,779 km^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 (242.877 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1944, nonrecording gage at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records good. Flow regulated by 5 flood control reservoirs at points 21 mi (34 km) to 58 mi (93 km) upstream (see REMARKS for station 03098000), and by reservoirs on Squaw Creek, 15 mi (24 km) upstream, on Dry Run, 9 mi (14 km) upstream, and on Yellow Creek, 5 mi (8 km) upstream. Water-quality data collected at this site 1949 to 1973.

AVERAGE DISCHARGE.--41 years, 1,103 ft^3/s (31.24 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 21,000 ft^3/s (595 m^3/s) Jan. 21, 1959, gage height, 14.43 ft (4.398 m); minimum daily, 155 ft^3/s (4.39 m^3/s) Feb. 5, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 17.8 ft (5.43 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,420 ft^3/s (210 m^3/s) May 2, gage height, 7.74 ft (2.359 m); minimum daily, 311 ft^3/s (8.81 m^3/s) Mar. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	914	1250	1580	864	357	1150	5530	761	1830	744	779
2	405	736	1010	1480	1480	346	1080	6800	686	1650	694	662
3	398	736	881	1410	2930	340	1410	6010	655	1560	670	593
4	398	1070	805	1360	2400	329	1780	5580	930	1190	873	573
5	392	889	787	1330	1470	317	1580	4650	796	881	761	559
6	380	761	922	1310	947	311	1340	3770	702	753	787	593
7	470	662	914	1300	822	323	1530	3450	615	655	761	1180
8	566	623	856	1290	753	411	2130	3220	586	593	694	718
9	444	600	761	1260	670	552	2190	3080	518	586	662	566
10	375	586	710	1300	600	889	4150	2950	477	573	647	477
11	369	814	702	1390	573	1580	5190	2760	484	566	963	491
12	363	1240	686	1310	532	1840	4200	2680	484	573	761	539
13	369	1230	655	1140	491	1660	3220	2630	470	586	670	484
14	369	1040	631	938	491	1980	2860	2650	470	586	623	477
15	363	955	718	881	491	2340	6920	2600	470	593	623	477
16	386	905	1930	840	511	1700	6070	2780	484	593	623	559
17	363	856	2300	796	736	1050	3320	2450	470	586	639	889
18	363	694	1850	744	840	796	2430	1960	579	608	631	727
19	375	504	1400	702	736	2130	2530	2030	566	678	631	670
20	380	346	1400	718	623	3470	2750	2340	631	639	623	702
21	375	450	1520	702	566	3350	2650	1840	539	623	608	1150
22	363	678	1450	718	525	2680	2530	1440	518	647	623	1010
23	357	787	1800	744	498	1500	2350	2300	504	856	615	955
24	363	1240	3820	873	450	1060	2180	2560	484	805	608	897
25	357	980	3650	930	424	864	1720	1900	484	805	608	873
26	363	840	2780	770	392	736	1040	1690	539	647	615	873
27	411	787	2030	623	369	831	761	1450	552	586	670	727
28	586	1000	2700	532	357	1250	662	1030	1150	631	678	491
29	586	1770	2900	498	---	1910	608	779	1660	631	678	464
30	579	1700	2320	608	---	1840	1160	947	1830	655	718	464
31	586	---	1780	831	---	1400	---	848	---	770	1160	---
TOTAL	12885	26393	47918	30908	22541	40142	73491	86704	20094	23935	21661	20619
MEAN	416	880	1546	997	805	1295	2450	2797	670	772	699	687
MAX	586	1770	3820	1580	2930	3470	6920	6800	1830	1830	1160	1180
MIN	357	346	631	498	357	311	608	779	470	566	608	464

CAL YR 1982 TOTAL 427615 MEAN 1172 MAX 8350 MIN 346
WTR YR 1983 TOTAL 427291 MEAN 1171 MAX 6920 MIN 311

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

LOCATION.--Lat 41°01'53", long 80°31'10", Mahoning County, Hydrologic Unit 05030103, on left bank 800 ft (244 m) upstream from Ohio-Pennsylvania State line, just below Lowellville, 0.9 mi (1.4 km) downstream from gaging station at Lowellville, and 3.9 mi (6.3 km) downstream from Yellow Creek.

DRAINAGE AREA.--1,075 mi^2 (2,784 km^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 micromhos Feb. 22, 1979; minimum, 204 micromhos July 13, 1976.
pH: Maximum, 9.9 units Jan. 26, 1969; minimum, 3.0 units Jan. 24, 1967.
WATER TEMPERATURES: Maximum, 39.0°C June 29, 1971; minimum, 0.5°C Jan. 10, 1978, Jan. 11, 17, Feb. 7, 1982.
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, 954 micromhos Mar. 8; minimum, 342 micromhos Apr. 16, May 5.
pH: Maximum recorded, 8.3 units Nov. 15, Dec. 23; minimum recorded, 6.6 units June 3.
WATER TEMPERATURES: Maximum, 31.0°C July 17,20,21, Aug. 27; minimum, 2.5°C Jan. 19.
DISSOLVED OXYGEN: Maximum recorded, 13.2 mg/L Apr. 4; minimum recorded, 2.4 mg/L Aug. 27.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	666	614	641	602	494	560	596	572	580	538	510	519
2	672	642	648	604	584	593	586	564	572	546	528	534
3	680	648	667	584	552	567	588	558	571	570	536	560
4	674	642	654	590	542	567	632	588	603	578	554	564
5	708	662	684	608	592	600	630	604	615	586	558	568
6	702	650	668	642	594	607	630	574	601	580	562	572
7	678	644	657	632	606	614	624	602	608	578	564	572
8	654	628	640	648	618	637	640	612	623	584	566	575
9	684	650	670	646	632	639	642	624	632	588	568	575
10	684	664	678	650	624	635	644	636	640	588	574	577
11	674	654	663	654	574	626	692	646	669	584	548	571
12	680	664	668	622	528	593	686	644	659	588	564	575
13	682	654	668	594	548	581	738	652	673	568	534	546
14	670	646	656	584	568	577	734	642	672	544	518	530
15	680	654	670	600	574	583	680	660	666	560	536	546
16	682	646	663	608	586	596	666	612	635	586	542	554
17	668	642	652	604	590	598	612	550	578	582	548	563
18	682	648	656	632	602	613	572	520	539	586	562	568
19	682	656	666	646	624	630	554	492	510	590	568	581
20	664	648	654	700	646	668	624	556	584	600	572	584
21	664	640	653	690	614	665	616	582	596	606	578	589
22	676	650	661	552	614	625	596	566	579	614	584	597
23	694	652	670	692	632	670	606	572	581	624	600	610
24	682	662	669	608	542	581	570	486	531	624	602	610
25	694	656	668	624	608	614	482	416	442	644	586	605
26	706	666	685	642	616	626	432	408	417	648	592	615
27	708	666	695	646	622	631	478	434	459	658	622	637
28	662	626	645	640	554	615	500	478	488	726	624	654
29	658	612	633	598	566	582	484	452	469	684	632	649
30	610	592	600	596	578	584	464	438	447	654	618	634
31	614	592	600	---	---	---	516	460	485	654	618	640
MONTH	708	592	658	700	494	609	738	408	572	726	510	583

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	670	640	656	732	674	698	556	524	533	510	388	430
2	624	526	589	698	674	686	600	518	533	390	350	366
3	576	480	530	830	694	734	588	518	546	---	---	---
4	500	454	469	846	700	760	534	510	520	---	---	---
5	458	434	445	794	704	736	522	502	509	358	342	347
6	494	458	471	734	692	704	524	496	509	398	364	383
7	598	492	514	806	690	721	516	498	508	408	396	402
8	602	540	561	954	722	773	522	478	494	416	404	407
9	630	576	602	810	686	726	490	456	471	416	408	412
10	648	594	617	762	684	711	492	418	451	416	408	413
11	666	604	627	768	672	701	412	354	374	424	412	417
12	684	626	640	576	584	634	424	364	392	420	412	417
13	766	652	693	584	552	570	458	428	444	420	412	417
14	710	648	671	562	536	553	480	438	466	416	396	411
15	788	732	756	540	492	511	472	392	416	460	416	447
16	820	690	722	494	468	477	388	342	356	476	448	465
17	788	672	721	540	476	494	392	348	368	468	452	457
18	798	670	712	624	510	546	454	392	424	452	444	448
19	732	632	678	588	480	513	480	452	463	480	448	460
20	676	606	622	488	440	467	468	460	464	484	472	478
21	628	604	613	456	422	433	464	460	462	496	468	478
22	682	616	637	476	458	463	474	462	465	512	472	495
23	716	632	667	478	454	466	498	460	472	520	464	499
24	718	634	662	504	482	489	480	472	476	---	---	---
25	700	648	667	532	506	515	522	480	499	436	428	430
26	738	652	676	556	528	537	560	522	534	464	424	442
27	722	654	672	608	546	576	580	554	563	488	464	471
28	708	662	677	576	560	568	614	582	598	---	---	---
29	---	---	---	568	484	524	612	598	609	---	---	---
30	---	---	---	488	454	470	600	498	573	---	---	---
31	---	---	---	548	454	498	---	---	---	552	544	547
MONTH	820	434	627	954	422	589	614	342	483	552	342	438

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	564	540	549	428	364	409	535	456	504	524	504	509
2	576	556	564	452	420	437	520	500	511	528	500	514
3	584	568	573	452	424	434	528	504	514	544	512	534
4	580	508	551	436	412	424	544	416	494	548	536	542
5	588	564	572	476	420	440	520	440	502	548	536	540
6	576	560	568	504	476	489	520	504	510	552	532	544
7	588	568	576	540	512	527	516	508	512	---	---	---
8	584	576	580	556	540	547	520	484	505	---	---	---
9	---	---	---	564	552	557	532	512	523	---	---	---
10	---	---	---	552	532	541	536	516	525	---	---	---
11	---	---	---	544	532	539	540	420	494	---	---	---
12	---	---	---	552	532	542	552	504	535	---	---	---
13	---	---	---	560	524	537	556	520	542	620	596	605
14	608	588	593	544	536	539	560	528	545	600	576	588
15	608	584	595	548	528	538	560	544	552	596	576	589
16	608	588	595	552	532	539	564	536	550	628	580	609
17	608	564	599	540	520	528	548	532	539	580	536	552
18	616	584	605	528	520	523	548	536	543	548	488	517
19	596	488	551	536	516	525	560	540	548	560	496	533
20	584	528	553	532	520	525	560	544	551	568	544	555
21	604	576	596	544	524	532	556	536	546	552	440	508
22	604	588	596	536	512	525	544	536	540	528	512	525
23	608	596	602	536	444	501	552	532	543	532	504	519
24	612	596	602	520	468	511	552	536	546	532	516	524
25	612	600	607	516	492	502	556	536	552	536	516	527
26	604	584	591	512	500	507	568	560	563	528	520	522
27	588	576	581	528	508	518	572	552	559	540	520	526
28	576	432	534	524	516	521	564	536	548	564	540	554
29	468	404	437	524	516	520	536	520	530	588	564	579
30	448	384	436	536	520	526	544	496	526	600	588	594
31	---	---	---	528	464	509	504	428	472	---	---	---
MONTH	616	384	568	564	364	510	572	416	530	628	440	546
YEAR	954	342	561									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	7.2	7.3	7.5	7.2	7.3	7.6	7.4	7.5	7.8	7.7	7.7
2	7.3	7.3	7.3	7.5	7.3	7.4	7.4	7.3	7.3	7.8	7.7	7.8
3	7.4	7.2	7.3	7.3	7.2	7.2	7.4	7.2	7.2	7.8	7.4	7.7
4	7.4	7.2	7.3	7.4	7.1	7.3	7.3	7.1	7.2	7.9	7.6	7.8
5	7.4	7.2	7.3	7.4	7.4	7.4	7.2	7.2	7.2	7.8	7.7	7.7
6	7.3	7.2	7.3	7.4	7.2	7.3	7.3	7.2	7.3	7.7	7.6	7.7
7	7.3	7.2	7.3	7.4	7.3	7.3	7.4	7.3	7.3	7.7	7.5	7.6
8	7.4	7.3	7.4	7.4	7.3	7.3	7.4	7.2	7.3	7.7	7.6	7.6
9	7.4	7.3	7.4	7.5	7.4	7.4	7.3	7.1	7.2	7.8	7.7	7.7
10	7.4	7.3	7.3	7.5	7.3	7.4	7.3	7.2	7.2	7.9	7.7	7.8
11	7.3	7.2	7.3	7.4	7.2	7.3	7.4	7.2	7.3	7.8	7.7	7.7
12	7.3	7.2	7.3	7.5	7.2	7.3	7.5	7.3	7.4	7.8	7.6	7.6
13	7.3	7.2	7.3	7.6	7.2	7.5	7.5	7.2	7.4	7.7	7.6	7.6
14	7.4	7.3	7.3	7.7	7.5	7.6	7.6	7.3	7.5	7.6	7.5	7.5
15	7.4	7.3	7.4	8.3	7.6	7.8	7.4	7.2	7.3	7.5	7.4	7.5
16	7.4	7.2	7.3	7.9	7.7	7.8	7.6	7.4	7.5	7.6	7.5	7.5
17	7.4	7.3	7.3	7.8	7.6	7.7	7.8	7.5	7.6	7.7	7.5	7.6
18	7.4	7.3	7.3	7.7	7.6	7.7	7.6	7.5	7.5	7.8	7.5	7.6
19	7.4	7.3	7.3	7.7	7.5	7.6	7.6	7.5	7.5	7.8	7.6	7.7
20	7.3	7.2	7.3	7.5	7.4	7.5	7.8	7.5	7.7	7.8	7.5	7.6
21	7.3	7.2	7.3	7.4	7.3	7.4	7.8	7.7	7.8	7.6	7.5	7.6
22	7.3	7.3	7.3	7.4	7.2	7.4	7.8	7.7	7.7	7.8	7.5	7.6
23	7.3	7.3	7.3	7.4	7.2	7.3	8.3	7.6	7.7	7.8	7.5	7.6
24	7.4	7.3	7.3	7.5	7.3	7.4	7.7	7.6	7.7	7.6	7.5	7.6
25	7.3	7.3	7.3	7.5	7.4	7.4	7.6	7.5	7.6	7.7	7.6	7.6
26	7.4	7.2	7.3	7.5	7.4	7.5	7.5	7.4	7.5	7.7	7.6	7.6
27	7.3	7.2	7.3	7.6	7.4	7.6	7.6	7.5	7.5	7.6	7.4	7.5
28	7.3	7.2	7.3	7.6	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.6
29	7.3	7.1	7.2	7.7	7.4	7.6	7.6	7.5	7.5	7.6	7.3	7.4
30	7.4	7.2	7.3	7.6	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4
31	7.4	7.3	7.3	---	---	---	7.7	7.5	7.6	7.5	7.4	7.4
MONTH	7.4	7.1	7.3	8.3	7.1	7.5	8.3	7.1	7.5	7.9	7.3	7.6

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.3	7.4	7.6	7.2	7.3	7.2	7.0	7.1	7.2	7.1	7.2
2	7.6	7.1	7.4	7.3	7.2	7.3	7.2	7.0	7.1	7.3	7.1	7.2
3	7.4	6.6	7.3	7.3	7.3	7.3	7.3	7.0	7.2	7.2	7.1	7.1
4	7.5	7.1	7.3	7.3	7.3	7.3	7.7	7.1	7.2	7.2	7.1	7.1
5	7.4	7.3	7.4	7.3	7.1	7.3	7.2	7.0	7.1	7.2	7.1	7.1
6	7.4	7.2	7.3	7.3	7.0	7.2	7.2	6.8	7.1	7.2	7.0	7.1
7	7.6	7.4	7.5	7.4	7.2	7.3	7.3	7.1	7.1	---	---	---
8	7.4	7.1	7.2	7.3	7.2	7.3	7.3	7.0	7.1	---	---	---
9	---	---	---	7.3	7.2	7.3	7.2	7.0	7.1	---	---	---
10	---	---	---	7.4	7.1	7.3	7.2	7.0	7.1	---	---	---
11	---	---	---	7.5	7.2	7.3	7.1	7.0	7.1	---	---	---
12	---	---	---	7.5	7.2	7.3	7.2	7.1	7.2	---	---	---
13	---	---	---	7.7	7.2	7.4	7.3	7.0	7.1	7.3	7.2	7.2
14	7.6	7.3	7.4	7.5	7.2	7.3	7.1	7.0	7.1	7.3	7.2	7.3
15	7.4	7.2	7.3	7.5	7.2	7.3	7.2	7.0	7.1	7.3	7.1	7.2
16	7.5	7.3	7.4	7.4	7.2	7.3	7.2	7.0	7.1	7.3	7.1	7.2
17	7.5	7.1	7.3	7.3	7.2	7.2	7.3	7.1	7.2	7.3	7.1	7.2
18	7.3	7.1	7.3	7.4	7.2	7.3	7.2	7.1	7.1	7.3	7.1	7.2
19	7.3	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2	7.2	7.1	7.2
20	7.3	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.1	7.2	7.2	7.2
21	7.3	7.2	7.3	7.4	7.2	7.2	7.3	7.0	7.1	7.3	7.1	7.2
22	7.3	7.3	7.3	7.4	7.2	7.3	7.3	7.1	7.1	7.3	7.3	7.3
23	7.3	7.2	7.3	7.3	7.1	7.3	7.2	7.1	7.1	7.4	7.2	7.3
24	7.3	7.2	7.3	7.4	7.3	7.3	7.2	7.1	7.1	7.4	7.2	7.3
25	7.3	7.1	7.2	7.3	7.1	7.2	7.2	7.1	7.1	7.4	7.1	7.3
26	7.3	7.2	7.3	7.3	7.2	7.2	7.2	7.0	7.1	7.4	7.3	7.3
27	7.3	7.2	7.2	7.3	7.1	7.2	7.1	7.0	7.1	7.3	7.3	7.3
28	7.2	7.0	7.2	7.3	7.1	7.2	7.1	7.0	7.0	7.3	7.1	7.2
29	7.3	7.2	7.3	7.2	7.1	7.1	7.1	7.0	7.1	7.4	7.1	7.2
30	7.4	7.3	7.3	7.3	7.1	7.2	7.2	7.0	7.1	7.3	7.2	7.2
31	---	---	---	7.1	7.0	7.1	7.2	7.1	7.1	---	---	---
MONTH	7.6	6.6	7.3	7.7	7.0	7.3	7.7	6.8	7.1	7.4	7.0	7.2
YEAR	8.3	6.6	7.4									

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	18.0	18.5	25.0	23.5	24.0	29.0	27.0	28.0	27.0	25.5	26.0
2	20.5	18.0	19.0	27.0	24.0	25.5	29.0	27.5	28.0	27.5	25.5	26.5
3	20.0	18.0	18.5	27.5	25.0	26.0	29.0	27.5	28.0	28.5	26.5	27.5
4	20.0	17.5	18.5	27.5	25.0	26.5	28.0	26.5	27.5	27.5	26.0	26.5
5	21.0	19.5	20.5	27.0	24.5	26.0	29.0	27.0	28.0	27.5	26.0	27.0
6	20.5	19.5	20.0	26.0	24.5	25.0	28.5	27.0	27.5	28.0	26.5	27.5
7	21.5	19.0	20.0	26.5	24.0	25.0	28.5	26.5	27.5	---	---	---
8	21.0	21.0	21.0	27.0	24.5	25.5	30.0	27.5	28.5	---	---	---
9	---	---	---	27.5	25.5	26.0	30.0	28.0	28.5	---	---	---
10	---	---	---	27.5	25.5	26.5	29.5	27.5	28.5	---	---	---
11	---	---	---	27.5	25.0	26.0	28.5	26.0	27.0	---	---	---
12	---	---	---	28.5	26.0	27.0	27.0	26.0	26.5	---	---	---
13	---	---	---	28.0	26.0	27.0	26.5	25.0	26.0	28.0	26.0	27.0
14	28.5	26.0	27.5	29.5	26.0	28.0	27.5	24.5	26.0	25.5	22.5	24.0
15	28.5	26.5	27.5	30.0	28.0	29.0	27.5	25.0	26.5	23.0	21.5	22.0
16	29.0	26.5	27.5	30.5	29.0	29.5	26.5	25.0	26.0	22.0	21.5	21.5
17	28.0	27.0	27.5	31.0	29.0	29.5	26.0	24.5	25.0	25.0	22.0	23.0
18	28.0	26.5	27.0	29.5	27.5	28.5	25.5	24.5	25.0	23.0	21.5	22.5
19	27.0	25.0	26.0	30.0	28.0	29.0	27.5	25.5	26.5	24.0	22.0	23.0
20	25.0	23.5	24.5	31.0	29.0	30.0	28.5	26.5	27.5	25.0	23.0	24.0
21	27.0	24.0	25.5	31.0	29.5	30.0	27.5	25.5	26.5	25.5	22.5	24.0
22	28.0	25.0	26.5	29.5	28.5	29.0	28.0	26.0	27.0	22.5	21.0	22.0
23	28.5	25.5	27.0	28.0	25.5	26.5	29.0	26.5	27.5	21.0	19.0	19.5
24	29.0	27.0	28.0	28.5	26.0	27.5	29.5	27.0	28.5	20.5	18.5	19.5
25	29.0	26.5	28.0	28.5	26.5	27.5	30.0	27.5	29.0	21.0	19.0	20.0
26	29.5	26.5	28.0	28.5	26.5	27.5	30.0	28.5	29.5	20.5	19.5	20.0
27	30.0	28.0	29.0	28.5	26.0	27.0	31.0	29.0	30.0	21.0	19.0	20.0
28	29.0	27.5	28.0	29.0	27.0	28.0	30.5	29.0	29.5	21.5	20.5	21.0
29	28.0	24.0	25.0	29.0	28.5	28.5	30.0	28.0	29.0	22.5	20.5	21.5
30	25.0	23.5	24.0	30.0	28.5	29.0	29.5	28.0	28.5	23.5	21.5	22.5
31	---	---	---	28.5	27.0	28.0	28.5	26.0	27.0	---	---	---
MONTH	30.0	17.5	24.5	31.0	23.5	27.5	31.0	24.5	27.5	28.5	18.5	23.5
YEAR	31.0	2.5	15.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.1	4.6	4.8	4.6	3.3	4.2	9.8	9.3	9.6	13.0	12.7	12.9
2	4.9	4.3	4.5	4.4	4.0	4.3	9.3	8.6	9.1	13.0	12.7	12.9
3	4.6	3.9	4.3	4.1	3.8	4.0	8.6	8.0	8.5	12.8	11.5	12.2
4	4.7	3.7	4.1	5.0	3.8	4.5	8.0	7.7	7.9	12.0	11.6	11.7
5	4.9	3.9	4.3	5.2	4.7	5.0	7.9	7.5	7.7	11.9	11.5	11.7
6	5.0	3.9	4.3	5.9	5.5	5.7	8.0	7.4	7.8	11.6	11.3	11.5
7	4.3	3.8	4.1	6.4	6.0	6.1	8.3	7.8	8.0	11.5	11.2	11.3
8	5.1	3.8	4.3	7.4	6.9	7.1	8.4	7.9	8.1	11.5	11.2	11.4
9	4.7	3.9	4.2	7.0	6.7	6.9	9.1	8.0	8.6	11.6	11.2	11.4
10	4.1	3.7	3.9	6.9	6.5	6.7	9.0	8.7	8.8	11.5	10.5	11.3
11	4.6	3.6	4.0	7.1	6.4	6.8	8.8	8.6	8.7	11.2	10.7	11.0
12	4.3	3.6	3.8	7.6	6.9	7.3	9.1	8.7	8.9	11.1	10.7	10.9
13	4.4	3.7	4.0	8.4	7.7	8.2	9.9	9.0	9.5	11.4	11.0	11.2
14	4.6	3.7	4.0	8.8	8.0	8.5	9.8	9.1	9.6	11.1	10.6	10.9
15	4.2	3.8	3.9	9.1	8.4	8.7	10.3	10.1	10.2	10.7	10.4	10.6
16	4.2	3.8	4.0	9.0	8.6	8.8	11.2	10.1	10.8	10.8	10.5	10.7
17	4.3	3.7	4.0	8.9	8.4	8.7	11.8	11.2	11.6	11.2	10.7	11.0
18	4.7	3.7	4.0	8.4	8.0	8.2	12.2	11.8	12.0	11.3	11.0	11.2
19	4.7	3.7	4.1	7.9	7.1	7.4	12.1	11.9	12.0	12.6	11.1	11.7
20	4.1	3.7	3.9	7.0	6.2	6.5	12.3	11.9	12.0	12.2	11.7	12.0
21	3.9	3.6	3.7	6.3	5.9	6.1	12.9	12.1	12.5	12.0	11.5	11.8
22	3.8	3.4	3.6	7.1	6.0	6.7	12.9	12.4	12.7	11.8	11.4	11.6
23	3.9	3.4	3.6	7.1	6.7	6.9	12.5	12.1	12.3	11.6	11.2	11.4
24	4.0	3.1	3.5	8.3	6.8	7.8	12.4	12.0	12.2	12.0	11.1	11.7
25	3.8	3.0	3.3	9.0	8.2	8.6	12.6	12.3	12.5	11.9	11.7	11.8
26	3.9	3.2	3.5	8.8	8.2	8.5	12.5	12.3	12.4	11.7	11.4	11.6
27	4.0	3.3	3.5	9.1	8.4	8.8	12.3	12.0	12.2	11.3	10.8	11.1
28	4.1	3.4	3.8	9.1	8.5	8.8	12.2	12.0	12.1	11.1	10.6	10.9
29	4.1	3.7	3.9	9.8	9.1	9.6	12.2	12.0	12.1	11.0	10.5	10.7
30	4.3	3.9	4.1	9.8	9.6	9.7	12.7	12.1	12.5	10.6	9.8	10.1
31	4.2	3.9	4.0	---	---	---	12.9	12.6	12.8	11.0	10.2	10.7
MONTH	5.1	3.0	4.0	9.8	3.3	7.2	12.9	7.4	10.5	13.0	9.8	11.4

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.4	10.5	11.1	8.3	7.7	7.9	11.3	10.5	11.0	9.8	8.2	9.4
2	12.0	11.1	11.5	9.0	7.9	8.3	10.9	10.1	10.6	9.7	9.1	9.4
3	12.1	11.6	12.0	7.9	7.4	7.6	11.7	9.9	10.8	---	---	---
4	12.5	12.2	12.4	7.5	7.0	7.3	13.2	11.7	12.7	---	---	---
5	12.8	12.5	12.7	7.6	7.1	7.3	13.1	12.5	12.9	9.5	9.4	9.5
6	12.5	12.1	12.4	7.2	6.7	7.0	12.6	12.1	12.4	9.8	9.5	9.6
7	12.1	11.5	11.8	7.8	6.9	7.3	12.2	11.5	11.9	9.6	9.3	9.5
8	11.7	11.4	11.6	7.2	6.7	7.0	12.0	11.5	11.9	9.5	9.1	9.3
9	11.7	11.4	11.6	8.7	6.7	7.8	12.2	11.7	12.0	10.0	9.4	9.8
10	11.4	11.1	11.3	9.1	7.7	8.4	12.0	11.5	11.7	11.0	9.8	10.3
11	11.3	10.9	11.1	10.7	8.9	10.1	11.5	11.4	11.4	11.1	10.2	10.6
12	11.1	10.8	11.0	11.7	10.7	11.4	12.2	11.5	11.9	10.6	9.8	10.3
13	11.5	11.1	11.3	12.1	11.7	11.9	12.4	12.0	12.2	11.3	10.7	11.0
14	11.4	10.5	11.1	12.0	11.4	11.7	12.3	11.4	12.1	11.9	10.4	11.4
15	10.3	9.8	10.0	11.6	11.4	11.5	11.6	11.4	11.5	11.5	10.8	11.3
16	10.2	9.7	9.9	11.5	11.0	11.3	11.7	11.4	11.5	11.7	11.3	11.5
17	10.6	8.0	10.1	11.1	10.4	10.9	12.1	11.7	12.0	12.0	11.3	11.7
18	10.5	10.1	10.3	10.4	9.9	10.2	12.4	12.1	12.3	11.4	10.8	11.2
19	11.3	10.4	10.9	10.6	9.8	10.3	12.7	12.2	12.4	10.9	10.2	10.6
20	11.0	10.5	10.9	11.3	10.5	11.0	12.4	12.2	12.3	11.6	10.1	11.0
21	10.5	9.6	10.3	11.4	11.1	11.3	12.3	12.0	12.2	10.4	9.5	10.0
22	9.8	9.5	9.7	11.7	11.2	11.6	12.1	11.7	11.9	9.5	8.7	9.2
23	9.5	8.7	9.1	12.0	11.7	11.9	11.9	11.4	11.7	10.5	9.0	9.3
24	8.8	8.5	8.6	12.0	11.4	11.8	11.5	11.0	11.3	---	---	---
25	9.1	8.4	8.7	11.6	11.2	11.4	11.7	11.2	11.4	8.4	7.9	8.1
26	9.3	8.5	8.9	11.2	10.8	11.1	11.5	10.4	11.2	9.5	5.7	7.2
27	9.3	8.7	8.8	11.0	10.7	10.9	10.2	5.8	7.8	7.6	6.7	7.3
28	8.8	8.5	8.6	11.0	10.5	10.8	8.5	7.7	8.1	---	---	---
29	---	---	---	11.3	10.6	11.0	8.7	7.3	8.0	---	---	---
30	---	---	---	11.4	11.2	11.3	8.5	7.0	8.0	---	---	---
31	---	---	---	11.5	11.1	11.3	---	---	---	8.2	7.6	7.9
MONTH	12.8	8.0	10.6	12.1	6.7	10.0	13.2	5.8	11.3	12.0	5.7	9.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.2	7.4	7.8	7.0	6.2	6.7	5.2	4.2	4.6	4.8	3.7	4.1
2	8.6	7.1	7.8	6.8	6.2	6.4	5.4	4.1	4.6	4.7	3.4	3.9
3	8.0	6.9	7.5	6.8	6.2	6.5	5.8	3.9	4.7	4.8	3.2	3.8
4	8.7	6.9	7.8	6.8	6.0	6.4	4.8	4.0	4.4	4.6	3.2	3.8
5	8.1	7.2	7.5	6.6	5.5	6.0	5.5	4.2	4.7	4.6	3.3	3.8
6	7.7	6.7	7.3	6.4	5.2	5.7	5.7	4.2	4.9	4.5	3.1	3.7
7	7.4	4.6	5.6	6.0	5.1	5.5	5.0	4.6	5.2	---	---	---
8	5.2	3.9	4.4	6.0	4.6	5.3	5.0	2.5	4.0	---	---	---
9	---	---	---	5.9	4.6	5.2	5.4	3.4	4.3	---	---	---
10	---	---	---	6.4	4.6	5.5	5.6	4.0	4.6	---	---	---
11	---	---	---	6.8	5.0	5.7	4.8	3.9	4.2	---	---	---
12	---	---	---	6.6	4.5	5.4	5.3	4.3	4.7	---	---	---
13	---	---	---	6.4	4.3	5.1	5.4	4.4	4.9	4.0	3.0	3.5
14	8.6	5.6	7.3	6.4	4.0	5.0	5.6	4.4	4.9	4.6	2.8	3.7
15	7.6	4.6	5.9	6.0	4.0	4.8	5.6	3.2	4.8	5.3	2.8	3.9
16	7.9	4.8	6.1	5.8	3.9	4.7	5.5	3.2	4.2	4.1	3.0	3.5
17	6.6	4.7	5.6	5.3	3.9	4.5	5.8	3.8	4.5	5.3	3.2	4.1
18	6.2	4.8	5.6	5.5	4.0	4.6	5.3	3.8	4.4	5.6	3.8	4.4
19	5.8	4.8	5.3	5.0	3.8	4.3	5.3	3.6	4.2	5.3	3.6	4.2
20	6.6	5.4	5.9	5.1	3.6	4.2	5.6	3.4	4.4	5.5	2.9	3.8
21	6.0	4.8	5.4	5.0	3.6	4.2	5.6	3.6	4.4	4.6	2.6	3.7
22	6.0	4.3	5.2	5.2	3.8	4.4	5.2	3.6	4.3	6.8	4.7	5.5
23	6.2	4.5	5.3	4.7	3.9	4.2	5.6	3.3	4.2	6.4	5.2	5.8
24	6.3	4.5	5.3	4.9	4.0	4.4	5.3	3.3	4.1	6.9	5.2	5.9
25	6.1	4.5	5.2	5.8	4.0	4.9	5.1	3.3	3.9	6.9	4.8	5.7
26	6.2	4.6	5.2	5.7	4.2	4.8	4.8	2.6	3.5	7.0	5.6	6.3
27	6.1	4.5	5.2	5.6	4.0	4.8	3.8	2.4	3.0	6.6	4.6	5.6
28	5.4	3.8	4.7	5.5	4.0	4.7	3.7	2.8	3.1	5.9	3.7	4.5
29	6.6	5.2	6.1	5.4	4.0	4.5	4.2	2.9	3.4	5.7	3.7	4.5
30	6.9	6.2	6.5	5.5	4.0	4.6	4.1	2.9	3.4	5.8	3.4	4.3
31	---	---	---	5.2	4.1	4.5	4.2	2.9	3.6	---	---	---
MONTH	8.7	3.8	6.1	7.0	3.6	5.1	6.0	2.4	4.3	7.0	2.6	4.4
YEAR	13.2	2.4	7.9									

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	577	579	514	634	698	526	419	550	412	512	504
2	646	593	570	533	594	687	528	360	564	432	508	512
3	669	565	569	547	533	716	544	---	572	432	512	536
4	654	569	601	566	466	745	520	---	554	424	520	542
5	686	600	615	567	446	724	507	346	568	434	510	540
6	665	600	603	571	462	704	508	383	566	488	508	544
7	657	612	606	572	501	710	508	401	576	532	512	---
8	644	628	622	575	554	754	485	408	580	548	508	---
9	670	638	631	574	599	723	472	412	---	556	522	---
10	682	634	640	576	608	705	450	412	---	540	526	---
11	664	637	664	577	621	687	369	416	---	538	500	---
12	666	605	653	575	632	637	393	416	---	538	534	---
13	670	582	656	538	680	571	444	416	---	536	548	604
14	655	575	660	529	666	555	467	412	592	540	544	588
15	668	582	664	544	752	508	411	450	594	538	552	588
16	663	596	631	552	706	474	349	466	594	536	548	610
17	651	600	580	559	711	484	369	456	604	524	540	552
18	650	609	529	566	696	523	421	448	604	524	540	518
19	664	628	502	582	669	504	463	454	556	522	546	538
20	653	667	583	582	619	467	464	476	552	524	550	554
21	656	669	594	587	612	432	462	478	598	530	548	516
22	660	623	580	595	626	460	463	498	596	524	540	524
23	666	676	579	610	670	468	468	496	600	514	544	520
24	668	584	535	609	654	485	475	---	600	516	548	524
25	662	611	439	595	653	512	498	428	604	502	556	528
26	686	625	413	607	664	532	528	438	586	508	560	522
27	696	629	463	636	659	573	560	468	580	516	558	528
28	642	629	488	640	668	568	598	---	556	520	548	554
29	630	582	470	644	---	517	610	---	438	520	528	580
30	600	584	446	636	---	472	576	---	444	524	528	596
31	598	---	483	641	---	509	---	548	---	508	472	---
MEAN	657	610	569	581	620	584	481	436	569	510	531	547

WTR YR 1983 MEAN 560 MAX 754 MIN 346

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	7.3	7.5	7.7	7.5	7.3	7.7	7.5	7.4	7.3	7.1	7.2
2	7.3	7.4	7.3	7.8	7.5	7.3	7.7	7.6	7.4	7.3	7.1	7.1
3	7.3	7.2	7.2	7.8	7.6	7.3	7.8	---	7.3	7.3	7.2	7.1
4	7.3	7.3	7.2	7.8	7.6	7.3	7.6	---	7.3	7.3	7.2	7.1
5	7.3	7.4	7.2	7.7	7.5	7.3	7.7	7.4	7.4	7.3	7.1	7.1
6	7.3	7.3	7.3	7.7	7.5	7.3	7.6	7.5	7.3	7.3	7.2	7.1
7	7.3	7.3	7.3	7.6	7.4	7.3	7.5	7.5	7.5	7.3	7.1	---
8	7.4	7.4	7.3	7.6	7.5	7.3	7.6	7.6	7.2	7.3	7.1	---
9	7.4	7.4	7.3	7.7	7.5	7.4	7.6	7.6	---	7.3	7.1	---
10	7.3	7.4	7.2	7.8	7.4	7.4	7.7	7.6	---	7.3	7.1	---
11	7.3	7.3	7.3	7.7	7.5	7.5	7.6	7.6	---	7.3	7.1	---
12	7.3	7.2	7.4	7.6	7.3	7.6	7.5	7.6	---	7.3	7.2	---
13	7.3	7.5	7.4	7.6	7.5	7.6	7.6	7.6	---	7.4	7.1	7.2
14	7.3	7.7	7.5	7.5	7.5	7.7	7.7	7.5	7.5	7.3	7.1	7.3
15	7.4	7.8	7.4	7.5	7.4	7.6	7.7	7.6	7.3	7.2	7.1	7.2
16	7.3	7.8	7.5	7.5	7.4	7.5	7.5	7.6	7.3	7.3	7.1	7.2
17	7.3	7.7	7.6	7.6	7.5	7.4	7.5	7.6	7.3	7.2	7.2	7.3
18	7.3	7.7	7.5	7.6	7.5	7.3	7.6	7.5	7.3	7.2	7.1	7.2
19	7.3	7.6	7.5	7.7	7.6	7.4	7.6	7.5	7.3	7.2	7.1	7.2
20	7.3	7.5	7.6	7.6	7.5	7.8	7.7	7.5	7.3	7.2	7.1	7.2
21	7.3	7.4	7.8	7.6	7.5	7.7	7.7	7.4	7.3	7.2	7.1	7.2
22	7.3	7.4	7.7	7.6	7.4	7.7	7.7	7.3	7.3	7.3	7.1	7.3
23	7.3	7.3	7.7	7.6	7.3	7.6	7.7	7.4	7.3	7.3	7.1	7.3
24	7.3	7.4	7.7	7.6	7.3	7.5	7.7	---	7.3	7.3	7.1	7.3
25	7.3	7.4	7.6	7.6	7.3	7.5	7.8	8.0	7.3	7.3	7.1	7.3
26	7.3	7.5	7.5	7.6	7.4	7.3	7.7	7.4	7.3	7.2	7.1	7.3
27	7.3	7.6	7.5	7.5	7.4	7.4	7.6	7.5	7.2	7.2	7.1	7.3
28	7.3	7.6	7.6	7.6	7.3	7.5	7.5	---	7.2	7.2	7.0	7.2
29	7.2	7.6	7.5	7.5	---	7.5	7.4	---	7.3	7.1	7.1	7.2
30	7.3	7.5	7.5	7.4	---	7.5	7.3	---	7.3	7.2	7.1	7.2
31	7.3	---	7.6	7.4	---	7.7	---	7.5	---	7.1	7.1	---
MEAN	7.3	7.5	7.5	7.6	7.5	7.5	7.6	7.5	7.3	7.3	7.1	7.2

WTR YR 1983 MEAN 7.4 MAX 8.0 MIN 7.0

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	17.5	9.0	6.0	7.0	10.0	9.5	14.0	19.0	24.0	28.0	26.0
2	21.5	18.5	11.5	5.5	6.5	10.5	10.0	14.0	19.0	25.0	28.0	26.5
3	21.5	18.5	13.0	5.5	6.0	11.5	9.5	---	18.0	26.0	28.0	27.5
4	22.5	16.5	14.5	5.0	4.5	12.5	9.0	---	18.5	26.5	28.0	27.0
5	22.0	14.0	14.5	5.0	4.0	13.5	9.0	14.5	20.5	26.0	28.0	26.5
6	22.0	13.0	13.5	5.5	4.5	13.5	9.5	14.5	20.0	25.0	27.5	27.5
7	23.0	12.0	13.0	6.0	5.0	13.5	11.0	15.5	20.0	25.0	27.5	---
8	23.5	13.0	12.0	6.0	5.5	14.0	10.5	16.0	21.0	25.5	28.5	---
9	23.0	12.5	10.5	5.5	5.5	13.5	10.0	14.0	---	26.0	28.5	---
10	23.0	13.0	9.0	5.5	6.0	12.0	10.0	14.0	---	26.0	28.5	---
11	23.0	13.5	9.0	6.5	5.5	9.5	9.5	15.0	---	26.0	27.0	---
12	22.0	14.0	7.5	6.0	6.0	7.0	9.5	16.5	---	27.0	26.5	---
13	20.0	12.0	6.0	5.5	4.5	6.0	9.0	16.5	---	27.0	26.0	27.5
14	20.0	10.5	5.5	5.5	4.5	6.5	10.0	17.0	27.5	27.5	26.0	24.5
15	18.5	9.5	8.5	6.0	7.5	7.5	10.0	17.0	27.5	29.0	26.5	22.0
16	18.0	9.0	8.0	5.5	8.0	8.5	9.5	15.0	27.5	29.5	26.0	21.5
17	17.5	9.5	6.0	4.0	8.0	9.5	9.0	15.0	27.5	29.5	25.0	23.0
18	17.5	10.5	5.0	3.0	9.0	10.0	8.0	16.0	27.0	28.5	25.0	22.5
19	17.0	11.5	5.0	3.0	7.0	10.0	7.0	16.0	26.0	28.5	26.0	23.0
20	16.5	12.5	4.5	4.5	7.5	8.0	7.0	16.5	24.0	30.0	27.5	24.0
21	16.5	13.5	4.5	5.0	7.5	7.0	8.0	17.0	25.5	30.0	27.0	24.5
22	16.5	13.5	4.5	5.5	8.5	6.0	9.5	18.0	26.0	29.0	27.0	22.0
23	16.5	14.5	5.5	6.5	9.5	5.5	10.5	18.5	26.5	26.5	27.5	19.5
24	17.0	13.0	5.5	5.5	10.0	5.5	10.5	---	28.0	27.5	28.0	19.5
25	16.5	11.5	6.0	6.0	9.5	6.5	10.0	19.0	28.0	27.5	29.0	20.0
26	17.0	10.5	7.5	6.0	9.0	7.5	11.0	18.0	28.0	27.5	29.5	20.0
27	17.0	9.0	8.5	6.5	9.5	7.0	13.5	17.5	29.0	27.0	30.0	20.0
28	18.0	8.0	9.0	6.0	10.0	7.0	16.0	---	28.0	28.0	29.5	21.0
29	18.5	8.0	8.5	6.0	---	8.0	16.5	---	24.5	28.5	29.0	21.5
30	17.5	9.0	7.5	7.5	---	7.5	16.5	---	23.5	29.0	28.5	22.5
31	17.0	---	6.5	7.5	---	8.0	---	19.5	---	28.0	27.0	---
MEAN	19.5	12.5	8.5	5.5	7.0	9.0	10.5	16.0	24.5	27.5	27.5	23.5

WTR YR 1983 MEAN 15.5 MAX 30.0 MIN 3.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	4.3	9.7	12.9	11.1	7.8	11.1	9.7	7.7	6.8	4.5	4.0
2	4.4	4.3	9.2	12.8	11.4	8.3	10.5	9.5	7.8	6.4	4.6	3.8
3	4.3	4.0	8.5	12.1	12.0	7.6	10.8	---	7.7	6.5	4.6	3.7
4	4.0	4.7	7.9	11.7	12.5	7.3	12.8	---	7.7	6.5	4.4	3.6
5	4.3	5.1	7.7	11.6	12.7	7.3	12.9	9.5	7.5	6.0	4.5	3.6
6	4.2	5.8	7.8	11.5	12.4	7.0	12.5	9.6	7.3	5.6	4.8	3.7
7	4.0	6.1	8.1	11.3	11.8	7.2	12.0	9.5	5.1	5.5	5.2	---
8	4.4	7.0	8.1	11.4	11.6	7.0	12.0	9.4	4.4	5.4	4.0	---
9	4.2	6.8	8.9	11.4	11.6	8.1	12.0	9.9	---	5.2	4.3	---
10	3.8	6.8	8.8	11.3	11.4	8.3	11.7	10.1	---	5.4	4.4	---
11	3.7	6.9	8.7	11.0	11.2	10.5	11.4	10.6	---	5.4	4.2	---
12	3.7	7.2	9.0	11.0	11.0	11.6	12.1	10.4	---	5.4	4.6	---
13	3.9	8.2	9.7	11.2	11.4	11.9	12.3	11.1	---	4.9	4.8	3.2
14	3.9	8.6	9.6	11.0	11.3	11.7	12.1	11.5	7.4	4.8	4.8	3.6
15	3.8	8.7	10.2	10.7	10.1	11.5	11.4	11.4	5.7	4.7	4.8	3.6
16	3.9	8.8	11.1	10.7	9.9	11.4	11.6	11.6	5.9	4.5	4.1	3.4
17	3.9	8.7	11.7	11.0	10.2	10.9	12.0	11.7	5.7	4.4	4.4	4.0
18	3.8	8.2	12.1	11.2	10.3	10.3	12.3	11.3	5.6	4.4	4.4	4.2
19	4.0	7.5	12.0	11.3	11.1	10.4	12.5	10.7	5.4	4.2	4.0	4.1
20	3.8	6.5	12.1	12.1	10.9	11.0	12.3	11.2	5.9	4.1	4.1	3.7
21	3.7	6.1	12.5	11.8	10.3	11.3	12.2	10.1	5.5	4.2	4.2	3.8
22	3.5	6.8	12.6	11.6	9.7	11.7	11.9	9.2	5.3	4.3	4.0	5.3
23	3.5	6.9	12.4	11.4	9.1	11.8	11.6	9.3	5.2	4.2	3.9	6.0
24	3.5	8.2	12.3	11.8	8.6	11.8	11.3	---	5.1	4.4	3.8	5.8
25	3.3	8.5	12.4	11.8	8.7	11.4	11.4	8.0	5.1	4.9	3.7	5.7
26	3.4	8.5	12.4	11.6	9.0	11.1	11.2	6.6	5.0	4.6	3.4	6.3
27	3.4	8.9	12.2	11.1	8.8	10.9	7.8	7.4	5.0	4.7	2.9	5.6
28	3.8	8.8	12.1	11.0	8.5	10.9	8.1	---	4.6	4.5	3.1	4.5
29	4.0	9.7	12.1	10.8	---	11.1	8.0	---	6.2	4.4	3.1	4.4
30	4.1	9.7	12.5	10.0	---	11.3	8.2	---	6.4	4.6	3.5	4.0
31	4.0	---	12.8	10.7	---	11.3	---	8.0	---	4.4	3.8	---
MEAN	3.9	7.2	10.6	11.4	10.7	10.1	11.3	9.9	6.0	5.0	4.2	4.3

WTR YR 1983 MEAN 7.9 MAX 12.9 MIN 2.9

03102950 PYMATUNING CREEK AT KINSMAN, OH

LOCATION.--Lat 41°26'34", long 80°35'18", in T.7 N., R.1 W., Trumbull County, Hydrologic Unit 05030102, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi (1.3 km) downstream from Sugar Creek, and 1.2 mi (1.9 km) upstream from Stratton Creek.

DRAINAGE AREA.--96.7 mi^2 (250 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 906.8 ft (276.39 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Water-quality data collected at this site 1966 to 1977.

AVERAGE DISCHARGE.--18 years, 126 ft^3/s (3.568 m^3/s), 17.69 in/yr (449 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft^3/s (68.5 m^3/s) Feb. 17, 1976, gage height, 12.27 ft (3.740 m) from rating curve extended above 800 ft^3/s (22.7 m^3/s); maximum gage-height, 12.32 ft (3.755 m) Sept. 15, 1979; minimum discharge, 0.10 ft^3/s (0.003 m^3/s) Aug. 8, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 26	0300	777	22.0	10.03	3.057	May 3	0500	*1290	36.5	*10.98	3.347
Apr. 15	1600	822	23.3	10.15	3.094						

Minimum daily discharge, 1.9 ft^3/s (0.054 m^3/s) June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	12	413	259	186	34	104	652	48	221	9.2	17
2	4.9	18	365	164	290	32	81	843	34	251	9.4	14
3	5.4	34	273	107	588	28	83	1200	24	240	8.5	11
4	7.1	72	193	79	676	25	104	1080	25	245	8.5	8.0
5	6.1	96	144	59	588	24	102	841	27	184	8.7	6.1
6	4.9	106	143	50	465	23	93	638	30	99	9.0	9.4
7	4.7	90	149	46	308	22	99	412	42	45	9.7	27
8	5.6	57	137	44	199	24	150	236	43	19	9.7	34
9	5.8	34	117	42	120	36	157	144	30	9.2	9.4	25
10	6.3	26	97	40	90	61	314	98	17	6.1	9.0	15
11	8.2	28	79	87	70	158	469	74	10	4.6	11	7.6
12	11	45	68	154	55	254	490	57	6.9	3.9	12	4.1
13	10	85	63	187	46	295	413	43	4.9	3.6	11	3.1
14	8.0	105	57	180	40	355	279	34	3.3	3.4	10	3.9
15	7.1	118	81	148	38	391	661	44	2.6	3.2	8.5	3.6
16	9.2	109	391	100	56	359	733	86	2.4	3.2	7.5	4.9
17	9.2	85	600	80	125	304	646	97	1.9	3.0	6.0	9.0
18	8.7	61	622	65	168	221	483	83	2.5	3.0	5.0	9.0
19	7.8	46	524	60	174	238	318	64	4.2	2.8	4.6	7.3
20	7.3	37	370	55	142	475	239	75	5.9	2.8	4.0	5.8
21	6.7	42	254	50	108	485	199	79	6.2	2.8	3.6	12
22	5.4	79	188	50	86	477	162	94	6.0	3.6	3.2	18
23	4.4	111	195	65	72	382	119	217	5.4	12	3.0	15
24	3.8	186	563	115	62	292	91	198	4.7	18	2.8	13
25	3.5	235	735	167	52	207	75	138	3.6	17	2.8	11
26	3.2	249	759	190	45	144	60	103	3.2	12	2.6	9.0
27	3.0	263	641	184	38	116	47	77	2.9	8.0	2.3	8.0
28	3.4	234	693	120	35	167	38	57	27	3.9	2.4	7.2
29	3.0	395	612	89	---	212	35	44	260	5.2	8.5	6.6
30	2.9	443	503	89	---	199	128	58	189	6.0	12	6.0
31	4.1	---	389	155	---	148	---	54	---	8.2	17	---
TOTAL	186.8	3501	10418	3280	4922	6188	6972	7920	872.6	1449.5	230.9	330.6
MEAN	6.03	117	336	106	176	200	232	255	29.1	46.8	7.45	11.0
MAX	11	443	759	259	676	485	733	1200	260	251	17	34
MIN	2.9	12	57	40	35	22	35	34	1.9	2.8	2.3	3.1
CFSM	.06	1.21	3.48	1.10	1.82	2.07	2.40	2.64	.30	.48	.08	.11
IN.	.07	1.35	4.01	1.26	1.89	2.38	2.68	3.05	.34	.56	.09	.13

CAL YR 1982 TOTAL 56850.6 MEAN 156 MAX 1150 MIN 2.9 CFSM 1.61 IN 21.87
WTR YR 1983 TOTAL 46271.4 MEAN 127 MAX 1200 MIN 1.9 CFSM 1.31 IN 17.80

RESERVOIRS IN BEAVER RIVER BASIN, OH

03090000 BERLIN LAKE NEAR BERLIN CENTER.--Lat 41°02'46", long 81°00'10", in T.1 N., R.6 W., Portage County, Hydrologic Unit 05030103, at dam on Mahoning River, 3.2 mi (5.1 km) northwest of Berlin Center. DRAINAGE AREA, 248 mi^2 (642 km^2). PERIOD OF RECORD, December 1942 to September 1983 (discontinued). Prior to October 1971 published as Berlin Reservoir. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake is formed by earthfill dam with concrete spillway; storage began in December 1942. Usable capacity 91,150 acre-ft (112 hm^3) between elevations 956.5 ft (291.54 m) (invert of lowest outlet) and 1,032 ft (315 m) (top of taintor gates on controlled section) of which 1,800 acre-ft (2.22 hm^3) is in the conservation pool, elevation, 980.0 ft (298.70 m). No dead storage. Flow is normally controlled by sluiceways through dam but additional releases can be made through gates on controlled section of spillway. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown. Gage-heights and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 91,150 acre-ft (112 hm^3) July 9, 1943, elevation, 1,032.0 ft (375.51 m); minimum, 1,540 acre-ft (1.90 hm^3) Jan. 10, 1944, elevation, 978.82 ft (298.344 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 81,990 acre-ft (101 hm^3) May 5, elevation, 1,030.25 ft (314.020 m); minimum, 20,270 acre-ft (25.0 hm^3) Jan. 23, elevation, 1,007.82 ft (307.184 m).

03091000 MILTON RESERVOIR NEAR PRICETOWN.--Lat 41°07'38", long 80°58'40", in T.2 N., R.5 W., Mahoning County, Hydrologic Unit 05030103, at dam on Mahoning River, 0.8 mi (1.3 km) southwest of Pricetown. DRAINAGE AREA, 273 mi^2 (707 km^2). PERIOD OF RECORD, December 1923 to September 1983 (discontinued). Month-end contents for some periods published in WSP 1305. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by city of Youngstown). Prior to Oct. 7, 1941, nonrecording gage at same site and datum.

Reservoir is formed by earthfill dam with concrete spillway; storage began in 1916. Usable capacity 29,150 acre-ft (35.9 hm^3) between elevations 906.0 ft (276.15 m) (bottom of gates) and 951.0 ft (289.86 m) (top of gates). No dead storage. Flow is regulated by two 16-inch and four 36-inch gates on spillway. Reservoir is used to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown. Capacity table computed from base data furnished by city of Youngstown, Division of Water.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 35,020 acre-ft (43.2 hm^3) June 29, 1924, elevation, 953.8 ft (290.72 m), of which 5,870 acre-ft (7.24 hm^3) was in uncontrolled storage; minimum, 1,220 acre-ft (1.50 hm^3) Jan. 23, 1954, elevation, 924.27 ft (281.717 m), from graph based on gage readings.

EXTREMES FOR CURRENT YEAR: Maximum contents, 25,660 acre-ft (31.6 hm^3) Mar.28, elevation, 949.18 ft (289.310 m); minimum, 13,770 acre-ft (17.0 hm^3) Jan. 10, elevation, 941.27 ft (286.899 m).

03092450 MICHAEL J. KIRWAN RESERVOIR AT WAYLAND.--Lat 41°09'24", long 81°04'47", in T.3 N., R.6 W., Portage County, Hydrologic Unit 05030103, at dam on West Branch Mahoning River, 0.5 mi (0.8 km) southwest of Wayland. DRAINAGE AREA, 80.5 mi^2 (208 km^2). PERIOD OF RECORD, December 1966 to September 1983 (discontinued). Prior to October 1971 published as West Branch Reservoir. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 66,940 acre-ft (82.5 hm^3) Apr. 18, 1972, elevation, 989.19 ft (301.505 m); minimum, 5,370 acre-ft (6.62 hm^3) Jan. 5, 1967, elevation, 953.50 ft (290.627 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 62,890 acre-ft (77.5 hm^3) May 5, elevation, 987.78 ft (301.075 m); minimum, 34,100 acre-ft (42.0 hm^3) Oct. 30, 31, elevation, 975.72 ft (297.399 m).

03095000 MOSQUITO CREEK LAKE NEAR CORTLAND.--Lat 41°17'58", long 80°45'31", in T.5 N., R.3 W., Trumbull County, Hydrologic Unit 05030103, at dam on Mosquito Creek, 3.0 mi (4.8 km) southwest of Cortland. DRAINAGE AREA, 97.5 mi^2 (253 km^2). PERIOD OF RECORD, October 1943 to September 1983 (discontinued). Prior to October 1971 published as Mosquito Creek Reservoir. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake is formed by earthfill dam. A natural wasteway, elevation, 903.5 ft (275.39 m), discharges into the Grand River basin; storage began in October 1943. Usable capacity 102,200 acre-ft (126 hm^3) between elevations 881.0 ft (268.53 m) (lowest outlet), and 904.00 ft (275.539 m), (lake-full level). Dead storage below 881.0 ft (268.53 m), 2,000 acre-ft (2.47 hm^3). Figures given herein represent usable contents. Flow is controlled by gates in concrete conduits through dam. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water is used for industrial purposes in vicinity of Warren and Youngstown, and for municipal supply of city of Warren. Gage-heights and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 99,100 acre-ft (122 hm^3) June 3, 1947, elevation, 903.65 ft (275.432 m); minimum, 8,600 acre-ft (10.6 hm^3) Nov. 16, 1944, elevation, 886.97 ft (270.348 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 94,760 acre-ft (117 hm^3) May 4, elevation, 903.15 ft (275.280 m); minimum, 53,050 acre-ft (65.4 hm^3) Oct. 31, elevation, 897.52 ft (273.564 m).

RESERVOIRS IN BEAVER RIVER BASIN, OH--Continued

03097000 MEANDER CREEK RESERVOIR NEAR MINERAL RIDGE.--Lat 41°09'12", long 80°46'45", in T.3 N., R.3 W., Trumbull County, Hydrologic Unit 05030103, on right side of spillway near center of dam on Meander Creek, 0.8 mi (1.3 km) northwest of Mineral Ridge. DRAINAGE AREA, 83.9 mi^2 (217 km^2). PERIOD OF RECORD, November 1929 to September 1983 (discontinued). Month-end contents for some periods published in WSP 1305. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Mahoning Valley Sanitary District).

Reservoir is formed by earthfill dam with concrete spillway; storage began in 1929. Usable capacity at spillway level, elevation, 905 ft (276 m), 32,410 acre-ft (40.0 hm^3). No dead storage. Figures given herein represent usable contents. Water is used for municipal supply of cities of Niles and Youngstown. Gage-heights furnished by Mahoning Valley Sanitary District. Capacity table computed from base data furnished by Mahoning Valley Sanitary District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 41,800 acre-ft (51.5 hm^3) Jan. 21, 1959, elevation, 909.25 ft (277.139 m); minimum, 9,370 acre-ft (11.6 hm^3) Feb. 28, 1954, elevation, 888.78 ft (270.900 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 35,180 acre-ft (43.4 hm^3) Apr. 15, elevation, 906.35 ft (276.255 m); minimum 18,400 acre-ft (22.7 hm^3) Nov. 20, elevation, 896.62 ft (273.290 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)
	03090000	BERLIN LAKE		03091000	MILTON RESERVOIR		03092450	M. J. KIRWAN RES.	
Sept. 30.....	1,017.60	37,700	--	947.51	22,670	--	976.18	35,000	--
Oct. 31.....	1,014.01	30,140	-7,560	946.63	21,190	-1,480	975.73	34,120	-880
Nov. 30.....	1,014.52	31,130	+990	943.11	16,080	-5,110	977.56	37,810	+3,690
Dec. 31.....	1,014.68	31,450	+320	942.78	15,650	-430	981.59	46,810	+9,000
CAL YR 1982	--	--	+10,880	--	--	-1,180	--	--	+4,130
Jan. 31.....	1,009.42	22,490	-8,960	942.14	14,830	-820	980.98	45,360	-1,450
Feb. 28.....	1,016.67	35,590	+13,100	941.38	13,900	-930	982,71	49,520	+4,160
Mar. 31.....	1,023.12	52,900	+17,310	948.19	23,860	+9,960	985.80	57,450	+7,930
Apr. 30.....	1,025.53	61,370	+8,470	948.05	23,610	-250	986.22	58,580	+1,130
May 31.....	1,024.98	59,300	-2,070	947.81	23,190	-420	985.88	57,660	-920
June 30.....	1,024.31	56,930	-2,370	948.00	23,520	+330	984.95	55,200	-2,460
July 31.....	1,022.65	51,400	-5,530	947.90	23,350	-170	983.02	50,280	-4,920
Aug. 31.....	1,020.37	44,690	-6,710	947.92	23,380	+30	979.90	42,880	-7,400
Sept. 30.....	1,018.09	38,840	-5,850	943.66	16,810	-6,570	978.20	39,160	-3,720
WTR YR 1983	--	--	+1,140	--	--	-5,860	--	--	+4,160
	03095000	MOSQUITO CR. LAKE		03097000	MEANDER CR. RES.				
Sept. 30.....	898.09	56,650	--	898.64	21,370	--			
Oct. 31.....	897.55	53,230	-3,420	896.86	18,740	-2,630			
Nov. 30.....	898.22	57,520	+4,290	898.77	21,560	+2,820			
Dec. 31.....	899.89	69,000	+11,480	902.53	27,760	+6,200			
CAL YR 1982	--	--	+5,580	--	--	+4,170			
Jan. 31.....	899.78	68,220	-780	902.25	27,260	-500			
Feb. 28.....	900.31	72,100	+3,880	903.44	29,420	+2,160			
Mar. 31.....	901.55	81,600	+9,500	905.31	33,040	+3,620			
Apr. 30.....	902.13	86,230	+4,360	905.75	33,920	+880			
May 31.....	901.60	81,990	+4,240	905.18	32,770	-1,150			
June 30.....	901.49	81,130	-860	904.18	30,820	-1,950			
July 31.....	900.33	72,250	-8,880	902.38	27,500	-3,320			
Aug. 31.....	899.43	65,750	-6,500	900.75	24,700	-2,880			
Sept. 30.....	898.93	62,240	-3,510	899.42	22,570	-2,130			
WTR YR 1983	--	--	+5,590	--	--	+1,200			

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 (2.4 km) upstream from Island Run, 4 mi (6 km) upstream from mouth, and 4 mi (6 km) northeast of East Liverpool.

DRAINAGE AREA.--496 mi^2 (1,285 km^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 (214.204 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

REMARKS.--Records good. Water-quality data collected at this site 1964-1978. Sediment data collected at this site 1969 to 1974.

AVERAGE DISCHARGE.--68 years, 521 ft^3/s (14.75 m^3/s), 14.26 in/yr (362 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s (708 m^3/s) July 19, 1941, gage height, 17.4 ft (5.30 m), from rating curve extended above 16,000 ft^3/s (453 m^3/s) on basis of slope-area measurement of peak flow; minimum, 12 ft^3/s (0.34 m^3/s) several days in 1918, 1930, 1932, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximums (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 15	1100	5,590	158	9.12	2.780	May 2	2100	*7,330	208	*10.19	3.106

Minimum discharge, 48 ft^3/s (1.36 m^3/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	85	458	415	313	247	623	3220	643	461	130	186
2	73	105	354	365	599	243	571	5690	567	476	148	127
3	92	117	297	328	1940	230	884	5990	511	312	148	91
4	89	202	259	278	1530	222	1020	4310	954	253	119	76
5	87	248	237	260	932	216	828	2610	894	304	132	70
6	86	185	286	250	697	212	736	1740	628	254	220	69
7	85	140	288	240	560	212	848	1330	540	193	212	73
8	89	117	246	230	470	242	980	1100	473	163	136	154
9	92	107	219	225	400	365	1400	950	405	147	110	122
10	91	97	198	228	350	476	3120	787	360	136	99	86
11	86	94	200	308	320	715	3200	676	333	127	96	72
12	83	102	187	375	290	790	2270	601	311	119	123	65
13	77	155	180	292	280	736	1580	547	289	118	150	65
14	76	172	170	262	270	929	1290	507	272	114	108	57
15	77	130	245	252	290	1130	4170	800	257	105	89	54
16	84	108	455	239	334	968	3730	866	280	96	83	56
17	82	97	619	200	506	722	2100	702	252	90	79	100
18	78	92	414	190	507	615	1520	546	260	122	76	91
19	80	88	363	180	436	1510	1230	645	262	155	78	81
20	79	88	392	180	391	2440	1050	1140	394	150	76	67
21	80	112	385	170	359	2050	873	841	316	130	74	93
22	78	281	339	170	341	1670	745	1620	250	136	69	166
23	75	385	376	318	333	1170	660	3140	213	175	65	134
24	75	329	1080	340	315	937	704	1890	194	326	61	95
25	74	361	1150	338	296	777	753	1270	179	235	61	79
26	73	278	903	289	274	655	615	1000	166	157	62	73
27	75	315	746	240	254	706	545	802	159	126	59	69
28	71	382	922	210	251	1090	501	680	185	110	59	65
29	70	920	838	189	---	1010	479	670	264	102	70	62
30	68	707	610	208	---	784	652	1130	222	100	67	60
31	78	---	484	328	---	686	---	820	---	105	154	---
TOTAL	2489	6599	13900	8097	13838	24755	39677	48620	11033	5597	3213	2658
MEAN	80.3	220	448	261	494	799	1323	1568	368	181	104	88.6
MAX	92	920	1150	415	1940	2440	4170	5990	954	476	220	186
MIN	68	85	170	170	251	212	479	507	159	90	59	54

CAL YR 1982 TOTAL 156503 MEAN 429 MAX 8010 MIN 43
WTR YR 1983 TOTAL 180476 MEAN 494 MAX 5990 MIN 54

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 (305 m) upstream from Lowery Run, 0.9 mi (1.4 km) upstream from Brush Creek, and 1.6 mi (2.6 km) southwest of Hammondsville.

DRAINAGE AREA.--147 mi^2 (381 km^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 (210.952 m) Ohio State Highway Department bench mark.

REMARKS.--Records good. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--43 years, 161 ft^3/s (4.560 m^3/s), 14.87 in/yr (378 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft^3/s (271 m^3/s) Jan. 27, 1952, gage height, 12.17 ft (3.709 m); minimum, 0.8 ft^3/s (0.023 m^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 above base of 2,000 ft^3/s (56.6 m^3/s) and maximums (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 10	unknown	2030	57.5	6.03	1.838	May 2	1930	2190	62.0	6.23	1.899
Apr. 15	1200	*2660	75.3	*6.78	2.067	May 23	0330	2260	64.0	6.32	1.926

Minimum daily discharge, 9.0 ft^3/s (0.25 m^3/s) Aug. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	150	150	96	86	209	1140	180	98	132	36
2	13	12	115	128	328	81	194	1470	158	89	169	21
3	12	14	103	117	777	75	464	1450	142	76	68	15
4	14	39	81	94	483	73	426	1370	163	95	48	13
5	11	81	73	85	314	69	368	832	137	161	42	12
6	11	41	94	80	256	67	318	555	117	100	39	11
7	11	27	88	75	200	69	330	402	110	70	33	12
8	13	21	71	70	150	77	464	301	95	57	29	14
9	13	18	63	65	130	168	900	246	85	49	25	13
10	13	17	56	73	110	198	1000	201	77	45	23	10
11	12	16	60	94	100	278	1100	174	72	40	20	9.4
12	12	18	55	96	90	275	715	155	67	38	23	20
13	12	29	57	73	85	271	522	142	60	35	23	74
14	12	39	48	77	80	334	460	140	57	32	19	32
15	11	26	55	75	80	338	1940	211	54	28	16	19
16	11	22	216	69	115	275	1060	341	58	26	15	17
17	12	20	205	65	168	238	689	232	52	26	14	67
18	25	18	136	55	165	220	497	189	89	27	14	43
19	24	18	144	55	159	790	384	232	65	37	14	26
20	23	17	198	50	147	860	309	407	354	31	14	22
21	20	20	168	48	133	655	257	297	137	26	13	43
22	19	64	136	48	128	473	221	735	89	38	11	77
23	18	210	159	75	125	347	195	1670	70	43	11	38
24	17	121	435	86	115	278	208	773	60	180	10	28
25	16	137	322	77	110	238	195	488	52	72	9.8	25
26	16	98	310	69	101	201	163	389	46	46	9.0	20
27	15	139	298	63	86	223	148	309	42	37	9.0	18
28	20	150	368	60	90	314	137	250	55	30	11	17
29	43	460	298	58	---	278	132	225	205	26	15	15
30	20	231	223	65	---	242	235	293	100	24	17	14
31	12	---	178	108	---	231	---	215	---	25	30	---
TOTAL	496	2136	4963	2403	4921	8322	14240	15834	3048	1707	925.8	781.4
MEAN	16.0	71.2	160	77.5	176	268	475	511	102	55.1	29.9	26.0
MAX	43	460	435	150	777	860	1940	1670	354	180	169	77
MIN	11	12	48	48	80	67	132	140	42	24	9.0	9.4
CFSM	.11	.48	1.09	.53	1.20	1.82	3.23	3.48	.69	.38	.20	.18
IN.	.13	.54	1.26	.61	1.25	2.11	3.60	4.01	.77	.43	.23	.20

CAL YR 1982 TOTAL 47759.6 MEAN 131 MAX 2190 MIN 8.7 CFSM .89 IN 12.09
WTR YR 1983 TOTAL 59777.2 MEAN 164 MAX 1940 MIN 9.0 CFSM 1.12 IN 15.13

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 (3.4 km) east of Dillonvale, 2.2 mi (3.5 km) downstream from Jug Run, and 2.9 mi (4.7 km) upstream from Little Short Creek.

DRAINAGE AREA.--123 mi² (319 km²).

WATER-DISCHARGE RECORDS

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 (206.08 m) State of Ohio bench mark. Prior to Oct. 21, 1941, nonrecording gage at same site and datum.

REMARKS.--Records poor. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--42 years, 131 ft³/s (3.710 m³/s), 14.46 in/yr (367 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft³/s (184 m³/s) Mar. 6, 1945, gage height, 8.77 ft (2.673 m); maximum gage height, 10.15 ft (3.094 m) Mar. 5, 1963, from graph based on gage readings; minimum daily discharge, 2.8 ft³/s (0.079 m³/s) Sept. 21, 27, 1947.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 9	1800	1,410	39.9	4.89	1.490	May 15	1700	1,340	37.9	4.81	1.446
Apr. 15	0700	*1,860	52.7	*5.78	1.762	May 22	2100	1,790	50.7	5.67	1.728

Minimum daily discharge, 23 ft³/s (0.65 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	29	78	116	82	80	170	238	209	134	54	60
2	32	28	66	104	274	77	163	566	196	134	139	45
3	28	37	58	99	398	73	319	516	182	99	60	33
4	30	109	52	85	236	71	267	586	207	87	51	30
5	28	89	50	75	183	71	215	375	180	155	79	29
6	29	49	70	70	162	72	212	300	168	100	59	31
7	30	37	58	65	140	78	256	261	157	86	51	27
8	31	32	50	65	120	114	474	240	144	80	45	25
9	35	31	46	60	110	209	938	220	134	74	42	25
10	32	35	40	75	100	207	867	196	132	71	39	24
11	32	39	38	104	90	249	572	184	125	65	42	23
12	33	46	36	90	85	234	436	174	119	61	69	30
13	33	49	34	74	85	207	383	162	114	59	45	135
14	33	40	51	73	80	197	373	158	108	57	39	55
15	31	34	71	73	80	176	1230	875	103	56	37	37
16	31	34	316	66	116	157	552	723	102	55	35	35
17	31	35	160	65	166	145	417	388	100	56	35	51
18	30	37	105	60	146	139	358	302	129	68	37	37
19	30	34	105	55	136	415	318	344	103	62	39	31
20	30	31	144	50	124	360	285	411	295	65	34	31
21	30	40	123	48	115	319	261	311	149	55	33	35
22	30	140	102	46	111	266	238	838	113	117	31	46
23	31	94	215	100	108	221	217	1050	99	67	31	33
24	32	68	258	90	98	197	256	466	95	125	29	30
25	28	62	174	70	96	179	240	373	86	68	33	30
26	27	51	189	63	90	166	202	327	80	58	27	29
27	29	76	245	59	81	185	190	290	74	52	29	28
28	29	116	259	56	84	265	180	263	93	50	64	28
29	29	204	187	57	---	220	180	254	130	47	58	28
30	29	108	151	60	---	191	228	275	102	45	40	28
31	32	---	129	100	---	180	---	228	---	45	58	---
TOTAL	948	1814	3660	2273	3696	5720	10997	11894	4028	2353	1464	1109
MEAN	30.6	60.5	118	73.3	132	185	367	384	134	75.9	47.2	37.0
MAX	35	204	316	116	398	415	1230	1050	295	155	139	135
MIN	27	28	34	46	80	71	163	158	74	45	27	23
CFSM	.25	.49	.96	.60	1.07	1.50	2.98	3.12	1.09	.62	.38	.30
IN.	.29	.55	1.11	.69	1.12	1.73	3.33	3.60	1.22	.71	.44	.34

CAL YR 1982 TOTAL 42081 MEAN 115 MAX 1270 MIN 25 CFSM .94 IN 12.73
WTR YR 1983 TOTAL 49956 MEAN 137 MAX 1230 MIN 23 CFSM 1.11 IN 15.11

03111548 WHEELING CREEK BELOW BLAINE, OH

LOCATION.--Lat 40°04'01", long 80°48'31", Belmont County, Hydrologic Unit 05030106, on left bank at bridge on Pease Township Road 320 near U.S. Route 40, 0.5 mi (0.80 km) east of Blaine, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--104 mi² (269 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1982 to September 1983.

GAGE.--Water-stage recorder. Datum of gage is 700.11 ft (213.394 m) National Geodetic Vertical datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,020 ft³/s (57.2 m³/s) May 22, 1983, gage height, 5.06 ft (1.542 m); minimum daily discharge, 12 ft³/s (0.34 m³/s) Sept. 11, 1983.

EXTREMES FOR PERIOD DECEMBER 1982 TO SEPTEMBER 1983.--Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 15	0430	1,860	52.7	4.82	1.469	May 22	1500	*2,020	57.2	*5.06	1.542

Minimum daily discharge, 12 ft³/s (0.34 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			54	98	70	73	140	166	144	121	46	34
2			46	89	293	70	140	451	138	86	39	28
3			41	84	413	66	345	459	138	72	31	25
4			38	76	190	65	244	571	206	70	29	23
5			36	80	140	66	208	352	144	93	40	22
6			55	75	126	68	206	288	134	69	43	16
7			42	71	120	70	267	253	117	59	35	16
8			36	68	106	144	507	228	113	53	32	15
9			33	63	98	155	772	214	106	50	31	14
10			30	66	96	155	692	195	102	50	28	13
11			31	86	94	182	429	179	95	50	28	12
12			31	74	96	172	326	171	93	49	28	24
13			78	62	86	153	294	162	88	49	26	106
14			148	62	87	142	284	153	85	46	23	39
15			111	62	91	134	1000	628	81	43	23	20
16			325	60	112	126	410	454	88	43	21	22
17			122	68	136	112	313	261	80	42	21	31
18			75	60	112	114	264	220	76	42	25	22
19			80	83	103	379	230	267	78	45	28	16
20			128	94	96	261	207	310	104	42	25	16
21			97	108	91	261	191	250	85	45	23	22
22			76	89	88	203	182	779	76	62	22	24
23			303	91	86	167	171	520	69	46	20	20
24			230	80	81	153	209	313	64	76	20	18
25			144	56	83	140	179	258	62	50	20	15
26			167	53	78	132	158	223	59	43	20	15
27			241	51	73	151	146	200	56	39	20	15
28			214	51	73	244	138	182	65	38	22	14
29			147	49	---	187	140	188	78	36	25	13
30			120	68	---	155	162	182	88	35	21	13
31			106	84	---	149	---	160	---	38	23	---
TOTAL			3385	2261	3318	4649	8954	9237	2912	1682	838	683
MEAN			109	72.9	119	150	298	298	97.1	54.3	27.0	22.8
MAX			325	108	413	379	1000	779	206	121	46	106
MIN			30	49	70	65	138	153	56	35	20	12

03111548 WHEELING CREEK BELOW BLAINE, OHIO--Continued

SEDIMENT ANALYSIS

PERIOD OF RECORD.--December 1982 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,640 mg/L May 22, 1983; minimum daily mean, 12 mg/L Aug. 30, 1983.
SEDIMENT LOADS: Maximum daily, 14,600 tons (13,200 tonnes) May 22, 1983; minimum daily, 0.65 ton (0.59 tonne) Sept. 7, 1983.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,640 mg/L May 22; minimum daily mean, 12 mg/L Aug. 30.
SEDIMENT LOADS: Maximum daily, 14,600 tons (13,220 tonnes) May 22; minimum daily, 0.65 ton (0.59 tonne) Sept. 7.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1							54	---	---
2							46	---	---
3							41	---	---
4							38	---	---
5							36	---	---
6							55	---	---
7							42	---	---
8							36	38	3.7
9							33	31	2.8
10							30	35	2.8
11							31	31	2.6
12							31	35	2.9
13							78	138	44
14							148	103	41
15							111	416	156
16							325	1990	1870
17							122	812	267
18							75	350	71
19							80	240	52
20							128	170	59
21							97	100	26
22							76	50	10
23							303	1150	1080
24							230	500	310
25							144	250	97
26							167	140	63
27							241	384	300
28							214	80	46
29							147	50	20
30							120	30	9.7
31							106	30	8.6
TOTAL							3385	---	4545.1

03111548 WHEELING CREEK BELOW BLAINE, OHIO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	98	30	7.9	70	90	17	73	70	14
2	89	30	7.2	293	737	838	70	70	13
3	84	30	6.8	413	304	379	66	60	11
4	76	30	6.2	190	100	51	65	65	11
5	80	30	6.5	140	70	26	66	65	12
6	75	30	6.1	126	60	20	68	60	11
7	71	30	5.8	120	50	16	70	70	13
8	68	30	5.5	106	40	11	144	574	279
9	63	30	5.1	98	30	7.9	155	335	146
10	66	30	5.3	96	30	7.8	155	90	38
11	86	30	7.0	94	30	7.6	182	95	47
12	74	30	6.0	96	30	7.8	172	85	39
13	62	30	5.0	86	30	7.0	153	72	30
14	62	30	5.0	87	30	7.0	142	70	27
15	62	30	5.0	91	30	7.4	134	70	25
16	60	30	4.9	112	85	33	126	70	24
17	68	30	5.5	136	330	121	112	70	21
18	60	30	4.9	112	125	38	114	70	22
19	83	30	6.7	103	58	16	379	552	629
20	94	30	7.6	96	60	16	261	110	78
21	108	30	8.7	91	60	15	261	100	70
22	89	30	7.2	88	65	15	203	70	38
23	91	30	7.4	86	65	15	167	50	23
24	80	30	6.5	81	70	15	153	40	17
25	56	35	5.3	83	70	16	140	40	15
26	53	40	5.7	78	65	14	132	40	14
27	51	45	6.2	73	65	13	151	50	20
28	51	50	6.9	73	65	13	244	178	123
29	49	50	6.6	---	---	---	187	50	25
30	68	60	11	---	---	---	155	40	17
31	84	70	16	---	---	---	149	40	16
TOTAL	2261	---	207.5	3318	---	1750.5	4649	---	1868
		APRIL			MAY			JUNE	
1	140	40	15	166	60	27	144	100	39
2	140	44	17	451	562	860	138	100	37
3	345	175	162	459	335	424	138	100	37
4	244	94	62	571	450	694	206	1030	600
5	208	70	39	352	100	95	144	400	156
6	206	50	28	288	80	62	134	260	94
7	267	78	59	253	80	55	117	200	63
8	507	384	667	228	80	49	113	400	122
9	772	841	1920	214	75	43	106	200	57
10	692	245	454	195	75	39	102	100	28
11	429	100	116	179	70	34	95	100	26
12	326	80	70	171	70	32	93	100	25
13	294	70	56	162	65	28	88	100	24
14	284	76	60	153	60	25	85	100	23
15	1000	145	443	628	1910	3610	81	100	22
16	410	65	72	454	1230	1630	88	100	24
17	313	70	59	261	600	423	80	100	22
18	264	85	61	220	170	101	76	100	21
19	230	80	50	267	592	492	78	100	21
20	207	80	45	310	990	829	104	100	28
21	191	85	44	250	500	337	85	100	23
22	182	85	42	779	4640	14600	76	100	21
23	171	85	39	520	2220	3220	69	100	19
24	209	85	48	313	1610	1360	64	90	16
25	179	85	41	258	1300	906	62	80	13
26	158	85	36	223	910	548	59	70	11
27	146	78	31	200	500	270	56	70	11
28	138	62	23	182	400	197	65	75	13
29	140	60	23	188	300	152	78	80	17
30	162	62	27	182	200	98	88	80	20
31	---	---	---	160	100	43	---	---	---
TOTAL	8954	---	4809	9237	---	31283	2912	---	1633

03111548 WHEELING CREEK BELOW BLAINE, OHIO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	121	163	55	46	45	5.6	34	35	3.2
2	86	100	23	39	90	9.5	28	31	2.3
3	72	70	14	31	35	2.9	25	31	2.1
4	70	84	16	29	35	2.7	23	26	1.6
5	93	95	24	40	50	5.4	22	26	1.5
6	69	67	12	43	47	5.5	16	23	.99
7	59	44	7.0	35	42	4.0	16	15	.65
8	53	44	6.3	32	40	3.5	15	24	.97
9	50	44	5.9	31	40	3.3	14	25	.95
10	50	40	5.4	28	42	3.2	13	26	.91
11	50	40	5.4	28	42	3.2	12	22	.71
12	49	40	5.3	28	42	3.2	24	170	48
13	49	32	4.2	26	40	2.8	106	813	209
14	46	32	4.0	23	37	2.3	39	880	93
15	43	32	3.7	23	33	2.0	20	380	21
16	43	25	2.9	21	30	1.7	22	230	14
17	42	22	2.5	21	32	1.8	31	150	13
18	42	23	2.6	25	24	1.6	22	100	5.9
19	45	34	4.1	28	26	2.0	16	50	2.2
20	42	40	4.5	25	23	1.6	16	25	1.1
21	45	80	9.7	23	36	2.2	22	44	2.6
22	62	95	16	22	26	1.5	24	36	2.3
23	46	75	9.3	20	17	.92	20	29	1.6
24	76	90	18	20	17	.92	18	27	1.3
25	50	65	8.8	20	17	.92	15	24	.97
26	43	50	5.8	20	20	1.1	15	29	1.2
27	39	42	4.4	20	15	.81	15	35	1.4
28	38	40	4.1	22	14	.83	14	38	1.4
29	36	39	3.8	25	13	.88	13	36	1.3
30	35	37	3.5	21	12	.68	13	30	1.1
31	38	35	3.6	23	25	1.6	---	---	---
TOTAL	1682	---	294.8	838	---	80.16	683	---	438.25
YEAR	37919		46909.31						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
MAY 02...	1415	7580	834	17100	29	40	52	66

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAY 02...	76	82	87	91	95	97	100

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 (0.8 km) east of Armstrongs Mills, and 0.7 mi (1.1 km) downstream from Anderson Run.

DRAINAGE AREA.--134 mi^2 (347 km^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 (225.409 m) National Geodetic Vertical Datum of 1929. Aug. 20, 1926 to Sept. 30, 1935, nonrecording gage at same site, at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good except for winter period, which is fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--34 years, 165 ft^3/s (4.673 m^3/s), 16.72 in/yr (425 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft^3/s (620 m^3/s) Aug. 11, 1980, gage height, 17.48 ft (5.328 m); no flow at times during 1929-30, 1932, 1934, 1959, 1963-66, 1972-74.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 15	0500	3,330	94.3	7.81	2.380	May 22	1730	*4,340	123	*8.74	2.664

Minimum discharge, 0.26 ft^3/s (0.007 m^3/s) Sept. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.3	140	173	124	70	170	245	116	165	16	.63
2	6.5	6.9	124	147	997	69	165	1090	102	47	111	.63
3	5.7	8.3	99	129	1330	65	607	1230	96	32	30	.48
4	5.4	103	83	101	549	61	413	1350	251	28	18	1.5
5	4.6	83	74	90	342	57	308	663	196	87	30	1.8
6	3.8	34	126	80	272	59	325	409	142	58	52	1.3
7	3.8	23	97	75	245	71	481	305	144	32	24	.82
8	3.8	17	75	70	192	242	1330	254	103	23	15	.63
9	3.8	14	64	67	160	378	1610	206	84	19	12	.35
10	4.3	13	54	74	147	367	1420	165	71	17	9.0	.29
11	4.8	12	61	129	133	416	775	138	61	15	6.5	.29
12	5.1	13	55	108	120	371	536	120	54	13	5.5	.32
13	4.6	28	42	83	110	339	424	106	48	12	8.0	10
14	3.6	26	48	80	120	282	371	101	42	9.6	5.0	13
15	3.8	19	140	80	140	230	2010	254	39	8.1	3.6	5.7
16	4.1	15	1110	68	152	186	725	437	43	6.9	2.6	5.2
17	5.4	13	367	60	239	160	473	251	38	6.3	2.2	102
18	5.1	13	216	55	192	150	349	186	34	7.5	3.1	30
19	4.6	13	228	50	167	502	279	257	36	11	4.4	15
20	3.8	13	386	48	143	465	228	417	42	8.9	4.7	9.6
21	4.6	27	263	46	124	481	186	292	34	6.9	3.9	8.9
22	5.4	64	200	85	116	371	157	1650	29	21	2.9	11
23	5.7	62	1140	133	110	279	138	1220	26	29	2.4	8.1
24	5.4	173	1200	135	103	228	225	618	23	116	1.8	5.7
25	6.1	104	523	110	101	192	228	370	20	37	1.5	4.4
26	5.4	67	710	90	88	162	165	282	17	21	.82	4.1
27	5.1	88	816	88	77	195	138	214	15	15	.63	3.9
28	5.1	288	654	82	70	254	122	174	16	12	.63	3.6
29	4.8	416	386	77	---	248	122	173	20	8.9	.82	3.1
30	5.1	200	266	112	---	208	263	217	25	6.9	.48	3.1
31	6.5	---	208	157	---	192	---	143	---	5.2	.35	---
TOTAL	153.6	1963.5	9955	2882	6663	7350	14743	13537	1967	885.2	378.83	255.44
MEAN	4.95	65.5	321	93.0	238	237	491	437	65.6	28.6	12.2	8.51
MAX	7.8	416	1200	173	1330	502	2010	1650	251	165	111	102
MIN	3.6	6.9	42	46	70	57	122	101	15	5.2	.35	.29
CFSM	.04	.49	2.40	.69	1.78	1.77	3.66	3.26	.49	.21	.09	.06
IN.	.04	.55	2.76	.80	1.85	2.04	4.09	3.76	.55	.25	.11	.07

CAL YR 1982 TOTAL 45469.90 MEAN 125 MAX 1230 MIN 3.5 CFSM .93 IN 12.62
WTR YR 1983 TOTAL 60733.57 MEAN 166 MAX 2010 MIN .29 CFSM 1.24 IN 16.86

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 (1.1 km) south of Massillon, and 3 mi (5 km) downstream from Newman Creek.

DRAINAGE AREA.--518 mi^2 (1,342 km^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 (279.197 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Records fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake, 28 mi (45 km) and 3 mi (5 km) south of Akron. Part of the diverted water flows through the Ohio Canal into the Cuyahoga River basin. Flow affected by industrial plants upstream from station and supplemented at times by diversion from Nimisila Reservoir, capacity, 6,500 acre-ft (8.01 hm^3), since 1939. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--46 years, 441 ft^3/s (12.49 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft^3/s (303 m^3/s) July 5, 1969, gage height, 16.43 ft (5.008 m); minimum daily, 57 ft^3/s (1.61 m^3/s) Oct. 13, 14, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,960 ft^3/s (83.8 m^3/s) May 3, gage height, 7.92 ft (2.414 m); minimum daily, 100 ft^3/s (2.83 m^3/s) Oct. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	280	691	531	461	227	523	2040	358	349	372	196
2	119	467	506	434	993	222	467	2470	313	538	215	143
3	115	248	409	379	2210	217	1110	2810	301	633	162	123
4	113	344	355	333	1760	232	1140	2570	397	352	141	113
5	117	369	348	320	909	222	827	1890	363	308	222	106
6	117	222	538	305	601	215	636	1130	318	253	222	111
7	119	151	512	300	532	227	793	772	306	212	138	702
8	141	125	366	280	489	265	1170	576	280	192	123	483
9	138	121	310	274	413	453	1190	495	260	180	115	222
10	115	119	282	290	380	411	2770	416	248	171	125	171
11	113	121	273	528	366	595	2600	372	239	162	182	147
12	113	222	269	500	325	725	1780	344	227	160	227	138
13	111	333	234	387	311	607	1100	318	220	156	156	132
14	117	248	236	325	292	949	1130	304	217	151	117	128
15	156	180	275	322	304	960	2640	489	215	149	111	123
16	130	147	1540	283	358	676	2500	796	212	151	108	149
17	106	134	1790	267	588	495	1540	620	208	156	106	180
18	111	125	1020	240	501	437	986	435	208	166	108	158
19	108	121	707	220	419	824	762	413	229	169	108	130
20	111	119	982	200	363	1430	672	633	263	147	106	128
21	115	189	979	190	325	1230	532	453	241	147	102	222
22	111	566	745	222	306	1160	445	579	224	162	104	270
23	104	492	944	334	316	712	403	1140	215	182	104	176
24	100	902	2360	483	282	526	413	824	212	199	106	143
25	100	827	1830	492	268	448	375	582	201	160	104	128
26	106	523	1220	412	248	380	333	507	196	143	106	123
27	106	643	1060	343	239	427	316	424	199	132	108	121
28	108	626	1990	292	232	1720	308	358	258	132	117	121
29	108	1500	1640	275	---	1760	301	330	526	123	145	123
30	106	1170	966	333	---	1010	504	469	355	156	132	121
31	108	---	685	598	---	659	---	411	---	178	176	---
TOTAL	3570	11634	26062	10692	14791	20421	30266	25970	8009	6469	4468	5331
MEAN	115	388	841	345	528	659	1009	838	267	209	144	178
MAX	156	1500	2360	598	2210	1760	2770	2810	526	633	372	702
MIN	100	119	234	190	232	215	301	304	196	123	102	106

CAL YR 1982 TOTAL 175534 MEAN 481 MAX 3870 MIN 100
WTR YR 1983 TOTAL 167683 MEAN 459 MAX 2810 MIN 100

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 (244 m) upstream from bridge on Elton Road at Navarre, 3.5 mi (5.6 km) downstream from gaging station at Massillon, 1.2 mi (1.9 km) downstream from Pigeon Run, and just upstream from Wolf Creek.

DRAINAGE AREA.--534 mi^2 (1,383 km^2).

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

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

INSTRUMENTATION.--Water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 16,700 micromhos Jan. 27, 1970; minimum, 200 micromhos 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, 2,980 micromhos Sept. 9; minimum, 330 micromhos Apr. 15.
pH: Maximum, 8.7 units July 21, 22; minimum, 7.1 units July 3.
WATER TEMPERATURES: Maximum, 28.0°C July 21; minimum, 0.5°C Jan. 18-20.
DISSOLVED OXYGEN: Maximum, 17.9 mg/L July 21; minimum, 0.8 mg/L Nov. 2.

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1730	1610	1670	2710	1970	2230	1560	1060	1200	1000	890	945
2	1920	1740	1870	2560	1670	2310	1280	1190	1220	1150	970	1070
3	2120	1880	1990	2800	2200	2500	1500	1300	1470	1370	990	1150
4	2330	2080	2240	2690	2010	2270	1730	1530	1600	1240	1150	1200
5	2290	2050	2150	2910	1780	2330	1580	940	1440	1360	1150	1230
6	2280	2090	2210	2910	2030	2560	1290	870	1040	1360	1140	1220
7	2320	2020	2170	2670	2030	2450	1380	870	1110	1410	1240	1310
8	2130	1690	1910	2430	1590	1860	1450	1050	1250	1390	1220	1290
9	2810	2010	2420	1870	1600	1720	1240	1060	1150	1430	1280	1340
10	1910	1540	1630	1920	1740	1820	1400	1170	1250	1350	1150	1300
11	1930	1690	1840	1890	1660	1790	1460	1130	1280	1570	950	1190
12	2230	1910	2090	2010	1620	1820	1500	1360	1420	950	810	874
13	2320	2000	2180	1900	1230	1520	1520	1240	1350	1040	870	945
14	2320	2160	2230	1710	1390	1540	1620	1470	1520	1040	920	973
15	2610	2180	2350	1980	1600	1850	1700	1270	1490	1180	1050	1100
16	2160	1520	1810	2020	1570	1710	1310	500	839	1110	950	1010
17	1510	1420	1460	1780	1620	1710	1130	500	880	1240	1060	1140
18	2160	1450	1770	1820	1630	1700	1280	950	1060	1300	1120	1200
19	2460	2110	2250	1960	1700	1790	1470	1080	1350	1370	1160	1260
20	2480	1800	2180	1870	1720	1800	1550	1170	1290	1880	1200	1390
21	2380	2150	2250	1890	1570	1740	1510	1210	1390	1400	1230	1330
22	2360	2170	2230	1850	920	1260	1630	1530	1550	1470	1250	1360
23	2260	1950	2080	1510	920	1290	1540	700	1100	1550	1190	1340
24	2180	2030	2080	2340	1250	1580	670	470	502	1160	940	1080
25	2300	2050	2140	1990	1480	1770	630	510	560	910	780	818
26	2310	2190	2260	2000	1250	1520	710	640	671	950	800	869
27	2450	2230	2320	1790	1200	1460	720	690	705	960	880	925
28	2470	2190	2310	1510	1180	1360	590	480	541	1100	940	1010
29	2380	2230	2320	1560	700	932	960	680	860	1210	1080	1160
30	2330	2200	2280	1660	1210	1450	940	700	755	1250	1110	1190
31	2360	2280	2320	---	---	---	890	780	829	1290	850	1020
MONTH	2810	1420	2100	2910	700	1790	1730	470	1120	1880	780	1140

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1250	830	1050	1460	1340	1370	1120	830	893	650	480	521
2	1330	710	1090	1380	1290	1330	970	870	916	540	420	474
3	800	720	745	1490	1310	1380	1000	510	702	780	530	699
4	1100	820	937	1860	1430	1620	620	530	587	810	750	779
5	1440	1100	1270	1870	1200	1460	750	610	668	900	720	859
6	---	---	---	1460	1350	1410	800	720	751	770	690	745
7	---	---	---	1510	1290	1400	880	710	792	1150	770	859
8	---	---	---	1480	1150	1350	590	540	588	960	800	859
9	1130	1050	1080	1500	940	1210	560	520	591	1030	940	968
10	1150	1030	1100	1050	930	998	480	340	370	1120	990	1050
11	1360	1030	1130	1590	970	1240	560	380	434	1240	1020	1110
12	1340	950	1110	1970	1280	1780	900	650	824	1240	1090	1170
13	1330	1130	1220	1850	890	1100	740	620	681	1280	1110	1210
14	1370	1190	1230	910	690	802	730	470	671	1320	1160	1250
15	1390	1260	1340	1110	700	1000	490	330	395	1450	840	1180
16	1390	1110	1230	1310	1130	1210	700	490	611	970	710	820
17	1110	840	987	1720	1330	1540	640	540	590	870	720	801
18	1200	800	924	1790	1600	1710	690	640	668	1230	880	1040
19	1280	920	990	1910	1170	1560	760	690	733	1300	1070	1170
20	1050	950	988	910	520	583	810	760	786	1190	830	972
21	1080	980	1030	660	610	635	980	760	835	1000	820	889
22	1260	1020	1140	1130	600	965	1150	990	1070	1040	620	938
23	1360	1120	1240	1130	730	820	1190	1060	1120	860	640	703
24	1270	1030	1120	930	780	839	1220	1070	1130	1650	980	1450
25	1280	1140	1210	990	870	934	1140	1060	1100	1820	1420	1620
26	1330	1170	1260	1040	920	989	1260	1130	1200	1840	1530	1630
27	1400	1240	1320	1120	850	1040	1280	1170	1230	1710	1100	1450
28	1480	1190	1300	790	440	607	1320	1210	1280	1190	1040	1110
29	---	---	---	900	660	788	1350	1200	1270	1240	1100	1160
30	---	---	---	720	640	669	1300	830	1190	1210	1000	1130
31	---	---	---	870	680	753	---	---	---	1100	1000	1040
MONTH	1480	710	1120	1970	440	1130	1350	330	823	1840	420	1020

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1170	1080	1120	1220	960	1090	---	---	---	2060	1550	1810
2	1290	1170	1220	1250	780	1010	1090	940	1000	1690	1400	1520
3	1330	1230	1280	780	500	596	1410	1100	1230	1740	1460	1550
4	1300	1130	1210	900	710	788	1510	1400	1470	1890	1690	1780
5	1240	1020	1080	1070	810	920	1820	1440	1580	2120	1850	1960
6	1190	1060	1150	1050	920	977	1800	900	1190	2040	1840	1950
7	1320	1180	1240	1280	970	1110	1440	1070	1240	2170	550	1350
8	1310	1260	1290	1320	1060	1190	1890	1350	1590	2240	540	1750
9	1380	1300	1340	1440	1220	1320	1960	1670	1800	2980	1440	2430
10	1440	1340	1390	1450	1320	1400	2070	1840	1930	1600	1370	1460
11	1490	1420	1460	1460	1360	1410	2080	1490	1820	1770	1490	1620
12	1480	1180	1450	1560	1370	1450	1800	1050	1470	1950	1690	1810
13	1180	990	1090	1630	1480	1550	1560	1220	1350	1880	1760	1830
14	1350	1090	1240	1630	1540	1570	1410	1280	1350	1990	1800	1890
15	1350	1340	1340	1690	1540	1610	1850	1370	1640	2140	1790	1950
16	1350	1340	1350	1790	1570	1680	2130	1600	1820	2150	1380	1830
17	---	---	---	1930	1570	1660	2140	1690	1900	1780	1250	1520
18	---	---	---	1960	1570	1690	2110	1870	2010	1990	1390	1680
19	---	---	---	1560	1340	1460	2180	1970	2040	1490	1340	1400
20	---	---	---	1580	1400	1510	2150	1940	2020	1840	1530	1670
21	---	---	---	1640	1490	1590	2160	1920	2080	1800	1190	1520
22	---	---	---	1630	1480	1560	2210	1970	2110	1700	960	1390
23	---	---	---	1800	1440	1600	2330	2080	2170	1090	870	957
24	1840	1420	1560	---	---	---	2430	2110	2290	1420	1100	1180
25	1730	1410	1530	---	---	---	2430	2120	2240	1590	1280	1440
26	1570	1430	1530	---	---	---	2320	2130	2250	1710	1550	1620
27	1790	1510	1580	---	---	---	2360	2110	2250	1770	1600	1680
28	1620	1270	1540	---	---	---	2300	1960	2160	1820	1700	1760
29	1760	720	1230	---	---	---	2540	2100	2330	1900	1770	1830
30	990	720	824	---	---	---	2370	1870	2010	1930	1790	1860
31	---	---	---	---	---	---	1990	1620	1760	---	---	---
MONTH	1840	720	1310	1960	500	1340	2540	900	1800	2980	540	1670
YEAR	2980	330	1370									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.7	7.8	7.8	7.6	7.7	8.0	7.9	7.9	8.1	7.9	8.0
2	7.8	7.8	7.8	7.8	7.6	7.7	7.9	7.8	7.9	8.1	8.0	8.1
3	7.8	7.7	7.8	7.7	7.7	7.7	7.9	7.8	7.8	8.2	7.9	8.0
4	7.8	7.6	7.7	8.2	7.7	7.9	7.8	7.8	7.8	8.2	7.7	8.0
5	7.7	7.6	7.6	8.1	7.9	8.0	7.8	7.8	7.8	8.1	7.7	8.0
6	7.7	7.5	7.6	8.3	8.1	8.2	---	---	---	8.1	7.9	8.1
7	7.7	7.6	7.6	8.5	8.2	8.4	---	---	---	8.1	7.9	8.0
8	7.7	7.5	7.6	8.3	7.9	8.1	---	---	---	8.0	7.9	8.0
9	7.8	7.6	7.7	7.9	7.8	7.9	---	---	---	8.1	7.9	8.0
10	7.7	7.6	7.6	7.8	7.8	7.8	8.3	8.2	8.2	8.2	7.9	8.1
11	7.7	7.6	7.6	7.8	7.8	7.8	8.1	7.9	8.0	8.1	7.8	7.9
12	7.7	7.6	7.7	7.9	7.8	7.9	8.2	8.1	8.2	7.9	7.5	7.9
13	7.7	7.6	7.6	8.1	7.9	8.0	8.2	7.8	8.0	8.1	8.0	8.0
14	7.8	7.6	7.7	8.1	8.0	8.0	7.8	7.7	7.8	8.0	7.9	7.9
15	7.9	7.7	7.8	8.1	8.0	8.1	8.0	7.7	7.9	8.0	7.9	7.9
16	8.2	7.8	8.0	8.0	7.9	8.0	7.8	7.5	7.7	8.1	7.9	7.9
17	8.1	8.0	8.0	8.1	7.9	8.0	7.7	7.5	7.6	8.2	8.1	8.2
18	8.0	7.9	7.9	8.0	8.0	8.0	7.8	7.7	7.7	8.2	8.0	8.1
19	7.9	7.8	7.9	8.0	7.9	7.9	8.0	7.7	7.9	8.3	8.0	8.2
20	7.9	7.7	7.8	7.9	7.9	7.9	8.1	7.8	7.9	8.4	8.2	8.3
21	7.9	7.8	7.8	---	---	---	8.2	8.0	8.1	8.2	8.0	8.1
22	7.9	7.8	7.9	7.9	7.8	7.8	8.0	8.0	8.0	7.9	7.9	7.9
23	8.0	7.9	7.9	7.9	7.8	7.8	8.1	7.7	7.9	8.5	7.8	8.0
24	8.1	8.0	8.0	8.0	7.9	7.9	7.7	7.6	7.6	8.4	8.0	8.2
25	8.0	7.9	8.0	8.2	7.9	8.1	7.6	7.6	7.6	8.0	7.9	7.9
26	8.0	7.9	7.9	8.2	8.1	8.1	7.7	7.6	7.7	8.0	7.9	7.9
27	7.9	7.9	7.9	8.3	8.1	8.2	7.7	7.7	7.7	8.1	7.9	8.0
28	7.9	7.8	7.8	8.2	8.0	8.2	7.7	7.5	7.6	8.0	7.9	8.0
29	7.9	7.8	7.8	8.4	7.8	8.0	7.8	7.6	7.7	8.2	7.8	8.1
30	7.9	7.8	7.8	8.0	7.9	8.0	7.9	7.8	7.8	8.0	7.9	8.0
31	7.8	7.7	7.8	---	---	---	7.9	7.9	7.9	8.0	7.9	8.0
MONTH	8.2	7.5	7.8	8.5	7.6	8.0	8.3	7.5	7.8	8.5	7.5	8.0

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	7.5	7.5	7.3	7.2	7.3	---	---	---	7.7	7.6	7.6
2	7.8	7.5	7.6	7.3	7.2	7.3	7.7	7.6	7.7	7.6	7.5	7.6
3	7.6	7.6	7.6	7.2	7.1	7.2	7.9	7.5	7.7	7.8	7.4	7.6
4	7.6	7.5	7.6	7.3	7.2	7.2	8.1	7.6	7.8	8.1	7.4	7.7
5	7.7	7.6	7.6	7.3	7.2	7.3	8.2	7.6	7.8	8.1	7.4	7.7
6	7.6	7.5	7.6	7.3	7.2	7.3	7.7	7.4	7.5	8.1	7.5	7.8
7	7.7	7.5	7.6	7.6	7.3	7.4	8.4	7.5	7.9	8.0	7.4	7.5
8	7.7	7.5	7.6	7.7	7.4	7.6	8.4	7.6	8.0	8.2	7.5	8.0
9	7.7	7.5	7.6	7.6	7.4	7.5	8.6	7.6	8.1	8.1	7.7	8.0
10	7.7	7.4	7.5	7.6	7.5	7.5	8.6	7.7	8.1	7.7	7.5	7.6
11	7.6	7.4	7.5	7.5	7.4	7.5	8.1	7.6	7.7	7.8	7.5	7.6
12	7.7	7.4	7.5	7.8	7.3	7.5	7.8	7.6	7.7	7.9	7.5	7.7
13	7.6	7.3	7.4	8.0	7.3	7.5	8.1	7.6	7.8	8.0	7.5	7.7
14	8.0	7.4	7.6	7.8	7.3	7.4	8.4	7.7	8.0	7.9	7.6	7.7
15	7.7	7.4	7.5	8.3	7.3	7.9	8.1	7.6	7.8	7.8	7.6	7.7
16	7.6	7.4	7.4	8.2	7.5	7.7	8.0	7.6	7.7	7.8	7.6	7.7
17	---	---	---	8.1	7.3	7.6	7.9	7.5	7.7	7.8	7.6	7.7
18	---	---	---	8.0	7.4	7.7	7.8	7.5	7.6	7.8	7.7	7.7
19	---	---	---	8.5	7.3	7.7	7.7	7.5	7.6	7.8	7.6	7.7
20	---	---	---	8.6	7.4	7.8	7.8	7.5	7.6	7.9	7.5	7.7
21	---	---	---	8.7	7.2	7.8	8.1	7.5	7.7	7.8	7.6	7.7
22	---	---	---	8.7	7.4	7.9	8.1	7.5	7.7	7.9	7.7	7.8
23	---	---	---	8.4	7.6	7.9	8.1	7.5	7.7	7.8	7.8	7.8
24	7.9	7.4	7.7	---	---	---	8.2	7.5	7.8	7.8	7.7	7.8
25	8.2	7.4	7.7	---	---	---	8.3	7.5	7.8	7.8	7.7	7.7
26	7.8	7.4	7.5	---	---	---	8.0	7.5	7.7	7.8	7.6	7.7
27	7.7	7.4	7.5	---	---	---	8.1	7.5	7.7	7.7	7.7	7.7
28	7.4	7.2	7.3	---	---	---	8.0	7.5	7.7	7.8	7.6	7.7
29	7.3	7.2	7.3	---	---	---	8.4	7.6	8.0	7.8	7.6	7.7
30	7.3	7.2	7.3	---	---	---	8.6	7.7	8.1	7.8	7.6	7.7
31	---	---	---	---	---	---	8.2	7.6	7.7	---	---	---
MONTH	8.2	7.2	7.5	8.7	7.1	7.5	8.6	7.4	7.8	8.2	7.4	7.7
YEAR	8.7	7.1	7.8									

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	14.5	16.0	25.5	22.0	23.5	---	---	---	24.5	21.5	23.0
2	17.5	14.5	16.0	26.5	22.5	24.5	26.0	24.0	25.0	24.0	21.0	22.5
3	16.5	15.5	16.0	26.0	23.5	24.5	26.0	23.0	24.5	24.5	21.0	22.5
4	18.5	15.5	17.0	26.5	24.5	25.5	25.0	23.5	24.0	25.0	21.0	23.0
5	20.5	16.5	18.5	26.0	23.5	24.5	26.0	23.0	24.5	25.0	21.5	23.5
6	19.5	18.0	19.0	23.5	21.5	22.5	26.0	23.5	25.0	24.5	22.5	23.5
7	20.5	17.0	18.5	22.5	19.5	21.0	26.5	22.5	24.5	24.0	21.5	23.0
8	20.5	17.0	19.0	23.5	19.5	21.5	27.0	22.5	25.0	23.5	21.5	22.0
9	21.0	17.0	19.0	23.0	20.5	22.0	26.0	23.0	24.5	24.0	20.5	22.0
10	22.0	18.5	20.5	24.0	20.5	22.0	25.5	21.5	23.5	24.5	21.5	22.5
11	23.5	20.0	21.5	24.5	19.5	22.0	24.5	22.5	23.0	24.0	22.0	23.0
12	24.5	20.5	22.5	26.5	21.5	23.5	23.5	21.0	22.5	24.0	22.0	23.0
13	25.0	21.0	23.0	27.0	22.5	24.5	23.5	20.5	22.0	23.0	20.5	21.5
14	25.5	21.5	23.5	26.5	22.0	24.5	24.0	19.5	21.5	21.0	18.0	19.5
15	25.5	22.0	23.5	27.5	23.0	25.0	24.0	19.5	22.0	20.0	16.5	18.0
16	24.0	22.0	23.0	27.5	24.0	25.5	25.0	20.5	22.5	19.5	16.5	17.5
17	---	---	---	26.5	24.0	25.0	24.0	21.0	23.0	19.0	16.5	17.5
18	---	---	---	27.0	22.5	25.0	25.0	22.5	23.5	20.5	16.5	18.0
19	---	---	---	27.5	24.0	25.5	25.5	22.5	24.5	22.5	18.5	20.0
20	---	---	---	27.5	24.0	25.5	27.0	23.5	25.0	22.5	19.5	21.0
21	---	---	---	28.0	24.0	26.0	25.5	22.0	24.5	22.0	18.5	20.0
22	---	---	---	27.0	23.5	25.5	26.0	22.5	24.5	18.5	16.0	17.0
23	---	---	---	26.0	23.0	24.5	25.5	22.5	24.0	16.0	14.0	15.0
24	26.0	22.0	24.5	---	---	---	26.0	22.0	24.0	16.0	12.5	14.0
25	26.0	21.5	23.5	---	---	---	26.0	22.5	24.5	16.0	12.0	14.0
26	26.0	21.0	23.5	---	---	---	25.5	23.0	24.5	17.0	14.0	15.5
27	26.0	21.5	24.0	---	---	---	26.0	23.5	25.0	17.5	14.5	16.0
28	25.5	23.0	24.0	---	---	---	25.5	23.0	24.0	19.0	15.5	17.0
29	23.0	22.5	23.0	---	---	---	25.5	21.5	23.5	19.0	16.0	17.5
30	24.0	21.0	22.5	---	---	---	25.0	21.5	23.5	19.0	15.5	17.5
31	---	---	---	---	---	---	24.5	21.5	23.0	---	---	---
MONTH	26.0	14.5	21.0	28.0	19.5	24.0	27.0	19.5	24.0	25.0	12.0	19.5
YEAR	28.0	.5	13.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.1	4.8	5.8	5.3	1.2	3.7	10.4	9.5	10.0	12.0	11.6	11.7
2	7.1	4.2	5.6	4.2	.8	3.2	9.6	8.9	9.3	11.8	11.6	11.7
3	6.6	4.4	5.5	4.3	3.6	4.0	8.8	7.8	8.3	11.6	11.2	11.4
4	6.7	3.8	5.2	5.2	4.1	4.8	7.7	7.3	7.5	11.6	11.3	11.4
5	6.9	3.8	5.4	7.9	4.8	6.5	7.3	7.0	7.2	11.6	11.4	11.5
6	6.7	3.7	5.2	9.2	8.0	8.6	8.2	7.4	7.8	11.4	10.9	11.1
7	5.7	3.3	4.3	9.8	8.7	9.2	9.4	8.2	8.8	10.9	10.5	10.7
8	5.9	2.9	4.2	9.4	8.1	8.9	9.9	9.4	9.7	10.7	10.3	10.5
9	3.7	1.6	2.9	7.9	7.4	7.7	10.3	9.7	10.0	10.4	10.0	10.3
10	4.8	2.8	3.6	8.0	6.8	7.4	10.5	9.9	10.3	10.5	10.0	10.3
11	6.0	3.6	4.6	7.1	6.2	6.6	10.8	10.5	10.6	10.5	9.7	10.2
12	5.6	3.6	4.6	7.7	5.9	6.8	11.0	10.6	10.7	10.8	10.2	10.5
13	6.0	3.9	4.9	7.6	6.7	7.2	11.2	10.9	11.0	11.4	10.8	11.1
14	6.0	4.2	5.1	9.4	7.6	8.7	11.4	11.0	11.2	11.1	10.4	10.8
15	6.3	4.9	5.5	10.2	9.4	9.8	10.9	10.6	10.7	10.7	10.0	10.4
16	7.6	5.2	6.3	10.8	9.8	10.3	10.7	9.9	10.3	10.8	10.1	10.5
17	8.4	6.5	7.4	10.6	9.5	10.0	11.1	10.4	10.8	11.2	10.8	11.0
18	8.2	6.2	7.2	9.4	8.6	9.2	11.5	11.0	11.3	11.5	11.2	11.4
19	7.6	6.1	6.8	8.5	7.5	8.2	11.8	11.5	11.6	11.7	11.1	11.5
20	7.1	5.5	6.3	7.3	6.4	7.0	11.8	11.6	11.7	11.4	11.0	11.2
21	7.1	5.4	6.2	6.8	5.9	6.4	11.9	11.6	11.8	11.2	10.8	10.9
22	7.2	5.1	6.1	6.8	5.8	6.5	12.0	11.8	11.9	10.9	10.4	10.7
23	7.5	5.4	6.3	7.6	6.8	7.2	11.8	11.5	11.7	10.8	9.4	10.3
24	8.1	6.1	7.0	8.6	7.0	7.8	11.5	11.1	11.3	11.0	10.2	10.7
25	7.8	6.0	6.9	10.4	8.8	9.9	11.1	10.4	10.8	11.5	10.6	11.2
26	7.9	6.2	6.9	10.8	10.5	10.7	10.3	10.1	10.2	11.6	11.2	11.4
27	7.9	5.9	6.8	11.2	10.8	10.9	10.8	10.2	10.5	11.7	11.2	11.5
28	7.6	5.6	6.5	11.3	10.9	11.0	10.8	9.9	10.2	11.9	11.5	11.6
29	7.1	5.1	6.0	11.0	9.9	10.3	10.3	9.8	10.0	11.7	11.2	11.5
30	6.9	4.6	5.6	10.5	10.3	10.4	11.5	10.4	11.1	11.2	10.6	10.8
31	6.0	3.8	4.8	---	---	---	11.9	11.6	11.8	11.3	10.7	11.0
MONTH	8.4	1.6	5.7	11.3	.8	8.0	12.0	7.0	10.3	12.0	9.4	11.0

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.8	11.3	11.6	14.1	10.3	11.9	11.6	9.9	10.5	8.6	7.8	8.0
2	11.7	11.2	11.5	14.5	9.9	11.7	11.0	9.3	9.9	8.8	7.0	8.1
3	11.3	10.9	11.1	13.7	9.3	11.0	9.9	9.3	9.5	7.5	6.9	7.2
4	11.8	11.3	11.6	14.0	7.7	10.5	10.3	9.8	10.2	8.2	7.4	7.9
5	12.3	11.9	12.1	14.3	7.7	10.2	10.8	10.1	10.4	8.3	8.1	8.2
6	12.2	11.9	12.1	11.2	7.3	8.9	10.4	9.8	10.1	9.1	8.0	8.5
7	11.8	11.6	11.7	12.5	6.9	9.0	9.6	9.2	9.4	8.6	7.4	8.0
8	11.8	11.6	11.7	8.4	6.9	7.5	9.2	8.8	9.1	8.2	7.0	7.5
9	11.8	11.6	11.7	7.4	6.7	7.2	10.2	9.3	9.8	9.6	7.6	8.6
10	11.7	11.4	11.5	9.2	7.4	8.3	10.1	9.0	9.4	10.0	8.4	9.0
11	11.6	11.2	11.4	10.9	9.3	10.2	9.3	9.1	9.2	9.7	7.6	8.5
12	12.1	11.3	11.7	11.8	10.9	11.3	9.6	9.3	9.5	10.4	6.8	8.3
13	11.9	11.4	11.6	12.5	11.2	11.7	9.7	9.3	9.5	9.2	3.6	6.4
14	11.5	11.1	11.4	11.1	10.1	10.7	9.6	9.1	9.4	9.2	5.3	6.7
15	11.2	10.6	11.0	10.3	9.7	10.1	9.6	8.6	9.0	6.0	5.2	5.6
16	10.9	10.3	10.6	10.7	9.6	10.1	9.6	9.2	9.4	7.7	6.1	6.9
17	10.8	10.3	10.6	11.3	9.8	10.4	10.0	9.5	9.7	8.0	7.4	7.7
18	11.4	10.7	11.0	10.7	9.4	9.9	11.0	10.0	10.7	8.3	7.2	7.6
19	11.4	10.8	11.0	9.8	9.3	9.5	11.0	10.6	10.8	7.0	6.1	6.3
20	11.3	10.4	10.8	10.5	9.5	10.0	11.3	10.5	10.8	6.7	5.8	6.2
21	10.9	10.0	10.4	10.9	10.5	10.7	11.2	10.1	10.6	6.6	5.9	6.2
22	11.0	9.5	10.1	11.8	10.9	11.4	10.8	9.3	10.0	6.5	5.4	5.9
23	10.4	8.9	9.6	12.8	11.8	12.3	11.3	8.6	9.6	6.3	5.9	6.0
24	11.8	9.4	10.4	12.7	11.9	12.2	10.7	8.1	9.2	6.2	5.8	6.0
25	12.7	10.0	11.2	12.4	11.3	11.8	12.5	8.7	10.3	6.1	5.6	5.9
26	13.7	10.6	11.9	12.9	11.1	11.8	13.3	8.8	10.7	6.3	5.6	5.9
27	13.9	11.0	12.2	11.7	10.3	10.9	14.0	7.9	10.4	6.6	5.3	6.1
28	14.0	10.6	12.0	10.4	9.8	10.2	12.8	6.9	9.2	7.5	6.0	6.6
29	---	---	---	10.7	10.5	10.6	9.5	6.5	7.8	7.0	6.0	6.5
30	---	---	---	11.3	10.7	11.0	8.5	6.5	7.4	6.9	6.1	6.5
31	---	---	---	11.8	10.4	11.1	---	---	---	6.7	5.8	6.2
MONTH	14.0	8.9	11.3	14.5	6.7	10.5	14.0	6.5	9.7	10.4	3.6	7.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	5.6	6.5	5.3	2.7	3.8	---	---	---	6.5	3.6	4.8
2	7.6	5.5	6.5	5.5	2.8	3.6	7.0	4.7	5.9	6.2	2.9	4.5
3	6.4	5.3	5.6	3.6	2.8	3.2	8.3	3.9	5.7	9.5	3.1	5.9
4	6.0	5.1	5.5	5.2	3.2	4.0	9.9	4.0	6.6	10.8	3.1	6.6
5	6.8	4.8	5.7	5.7	3.3	4.3	10.8	4.1	6.8	10.0	3.6	6.9
6	5.5	4.5	5.0	5.5	3.6	4.4	5.6	3.2	4.4	9.6	3.6	6.8
7	6.8	4.3	5.4	6.3	3.7	4.8	11.8	4.2	7.4	7.9	2.5	4.3
8	7.0	4.3	5.5	8.4	4.1	5.9	12.0	4.4	8.0	4.2	3.1	3.6
9	7.3	4.2	5.6	7.7	4.3	5.8	14.2	4.1	8.7	6.2	3.6	4.7
10	7.9	4.1	5.7	6.5	4.1	5.2	14.4	4.7	9.2	6.8	4.1	5.3
11	8.6	3.8	5.9	7.1	3.9	5.3	9.1	4.3	6.1	8.2	4.4	6.0
12	9.5	3.8	6.3	9.5	3.8	6.2	7.7	4.8	6.1	9.2	4.2	6.4
13	7.7	3.3	5.2	11.8	3.1	6.9	9.5	3.5	6.3	9.6	3.9	6.5
14	10.6	2.9	5.9	11.4	3.7	7.3	12.0	4.9	7.8	8.5	4.7	6.6
15	7.8	2.9	5.0	11.4	5.1	8.7	10.1	4.9	7.4	7.8	4.9	6.3
16	7.4	2.8	3.8	11.3	4.3	7.6	9.8	4.2	6.8	7.0	4.8	6.0
17	---	---	---	9.6	4.4	7.5	7.8	3.7	5.9	7.5	5.3	6.2
18	---	---	---	10.9	3.4	7.0	6.7	2.8	4.9	6.8	5.1	5.8
19	---	---	---	15.9	3.8	8.5	6.7	2.6	4.7	7.8	4.4	5.9
20	---	---	---	17.2	4.0	9.9	7.5	2.6	5.1	8.1	3.8	5.8
21	---	---	---	17.9	4.3	10.1	9.7	2.9	5.8	6.8	4.7	5.8
22	---	---	---	17.1	3.4	9.4	10.4	3.1	6.7	6.9	5.1	6.0
23	---	---	---	13.8	4.1	7.9	10.1	3.3	6.8	7.4	5.8	6.5
24	10.7	3.2	7.5	---	---	---	11.7	3.7	7.6	7.7	6.5	7.1
25	12.3	3.0	6.5	---	---	---	12.5	4.2	8.4	8.3	6.4	7.2
26	9.4	3.1	5.6	---	---	---	10.7	3.7	7.3	7.6	5.9	6.8
27	9.7	3.1	5.7	---	---	---	10.3	3.5	7.0	7.6	5.6	6.6
28	5.6	2.5	3.9	---	---	---	8.5	3.5	6.2	7.8	5.0	6.2
29	3.5	2.7	3.2	---	---	---	12.9	4.1	8.1	7.6	5.0	6.2
30	4.1	2.9	3.4	---	---	---	14.8	4.6	8.9	8.0	4.9	6.3
31	---	---	---	---	---	---	8.6	3.8	5.9	---	---	---
MONTH	12.3	2.5	5.4	17.9	2.7	6.4	14.8	2.6	6.8	10.8	2.5	6.0
YEAR	17.9	.8	8.3									

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	2150	1160	935	1150	1360	870	515	1110	1090	---	1810
2	1870	2360	1220	1100	1080	1330	925	455	1210	985	990	1500
3	2000	2520	1460	1160	740	1370	715	715	1280	570	1180	1520
4	2260	2280	1580	1200	925	1610	590	780	1210	765	1490	1770
5	2130	2400	1600	1240	1310	1500	670	880	1090	880	1580	1940
6	2240	2660	985	1180	---	1420	745	750	1170	980	1000	1960
7	2180	2540	1100	1290	---	1400	800	835	1240	1060	1180	1340
8	1900	1700	1290	1280	---	1430	580	840	1290	1170	1630	1950
9	2440	1720	1140	1310	1080	1260	610	960	1340	1310	1800	2530
10	1610	1810	1240	1320	1120	1010	360	1060	1390	1410	1940	1420
11	1850	1800	1280	1180	1110	1270	430	1090	1460	1410	1890	1580
12	2100	1810	1430	870	1110	1860	845	1180	1470	1420	1490	1810
13	2190	1480	1330	910	1220	935	690	1220	1110	1550	1310	1850
14	2220	1520	1500	960	1220	780	695	1270	1210	1570	1360	1880
15	2270	1880	1460	1100	1360	1040	375	1210	1340	1610	1700	1940
16	1740	1630	725	1010	1210	1210	615	805	1350	1670	1750	1810
17	1450	1700	945	1140	1020	1570	590	810	---	1640	1920	1440
18	1800	1680	1040	1200	865	1730	670	1030	---	1670	2020	1660
19	2230	1750	1390	1260	960	1540	740	1150	---	1470	2010	1400
20	2260	1810	1250	1290	980	560	790	920	---	1530	2020	1660
21	2270	1750	1380	1340	1030	630	790	850	---	1610	2090	1420
22	2230	1080	1550	1350	1130	1020	1070	980	---	1560	2130	1470
23	2080	1310	940	1340	1250	765	1120	675	---	1600	2170	930
24	2080	1490	480	1090	1130	810	1130	1430	1520	---	2280	1140
25	2100	1770	555	805	1210	935	1120	1590	1510	---	2230	1450
26	2260	1410	665	870	1260	995	1220	1580	1550	---	2270	1610
27	2330	1530	700	930	1330	1050	1240	1530	1560	---	2260	1680
28	2290	1350	510	985	1280	595	1290	1080	1570	---	2200	1770
29	2330	790	880	1160	---	795	1280	1160	1370	---	2300	1820
30	2310	1450	750	1190	---	665	1220	1140	800	---	1970	1870
31	2320	---	825	940	---	740	---	1040	---	---	1720	---
MEAN	2100	1770	1110	1130	1120	1140	826	1020	1310	1330	1800	1660

WTR YR 1983 MEAN 1360 MAX 2660 MIN 360

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.7	7.9	8.0	8.0	8.0	8.1	7.5	7.5	7.3	---	7.6
2	7.8	7.7	7.9	8.1	8.0	8.1	8.0	7.5	7.6	7.3	7.7	7.6
3	7.8	7.7	7.8	8.0	7.7	8.0	7.9	7.5	7.6	7.2	7.6	7.5
4	7.7	7.9	7.8	8.1	7.8	7.9	7.8	7.5	7.6	7.2	7.7	7.6
5	7.7	8.0	7.8	8.0	---	7.8	7.9	7.7	7.6	7.3	7.8	7.8
6	7.6	8.2	---	8.1	---	---	7.9	7.7	7.6	7.3	7.5	7.8
7	7.6	8.4	---	8.0	---	---	7.9	7.7	7.6	7.5	7.8	7.5
8	7.6	8.1	---	7.9	---	---	7.7	7.7	7.6	7.5	7.9	8.1
9	7.6	7.9	---	8.0	7.9	---	7.8	7.7	7.6	7.5	8.1	8.0
10	7.6	7.8	8.2	8.1	7.9	7.7	7.6	7.8	7.5	7.5	8.0	7.6
11	7.6	7.8	7.9	7.9	7.9	8.0	7.6	7.8	7.5	7.5	7.7	7.6
12	7.7	7.9	8.2	7.9	7.9	8.4	7.9	7.8	7.5	7.4	7.7	7.6
13	7.6	8.0	8.0	8.0	8.0	8.2	7.8	7.7	7.4	7.4	7.7	7.7
14	7.7	8.0	7.8	7.9	8.1	7.9	7.8	7.6	7.5	7.3	7.9	7.8
15	7.8	8.1	7.9	7.9	7.9	8.0	7.6	7.5	7.5	7.8	7.8	7.7
16	8.0	8.0	7.6	7.9	7.9	8.1	7.7	7.6	7.4	7.7	7.7	7.7
17	8.0	8.0	7.6	8.2	---	8.2	7.7	7.6	---	7.5	7.7	7.7
18	7.9	8.0	7.7	8.1	---	8.2	7.9	7.7	---	7.6	7.6	7.7
19	7.9	7.9	7.9	8.3	---	8.3	7.9	7.6	---	7.6	7.6	7.7
20	7.8	7.9	7.9	8.3	---	7.8	8.0	7.6	---	7.5	7.6	7.7
21	7.8	---	8.0	8.0	---	7.9	8.0	7.6	---	7.5	7.7	7.7
22	7.9	7.8	8.0	7.9	---	8.1	8.0	7.6	---	7.8	7.6	7.7
23	7.9	7.8	7.9	7.9	7.9	8.2	7.9	7.5	---	7.9	7.7	7.8
24	8.0	7.9	7.6	8.1	7.9	8.1	7.9	7.8	7.7	---	7.8	7.8
25	8.0	8.1	7.6	7.9	8.0	8.1	8.0	7.8	7.6	---	7.7	7.7
26	7.9	8.1	7.7	7.9	8.1	8.2	8.1	7.7	7.5	---	7.6	7.7
27	7.9	8.2	7.7	8.0	8.2	8.1	8.0	7.6	7.5	---	7.7	7.7
28	7.8	8.2	7.6	8.0	8.1	7.8	7.9	7.6	7.3	---	7.7	7.7
29	7.8	7.9	7.8	8.1	---	7.9	7.8	7.6	7.3	---	7.9	7.7
30	7.8	8.0	7.8	8.0	---	7.9	7.7	7.6	7.3	---	8.0	7.7
31	7.8	---	7.9	8.0	---	8.0	---	7.5	---	---	7.7	---
MEAN	7.8	8.0	7.8	8.0	8.0	8.0	7.9	7.6	7.5	7.5	7.7	7.7

WTR YR 1983 MEAN 7.8 MAX 8.4 MIN 7.2

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	15.5	8.0	3.5	3.5	7.0	9.5	14.0	15.5	23.0	---	22.5
2	18.5	16.5	9.5	3.5	4.5	7.0	10.0	14.5	16.0	24.0	25.5	22.5
3	18.0	16.0	12.0	4.0	4.5	8.0	9.5	16.0	16.0	24.5	24.0	22.5
4	18.5	13.5	13.0	3.5	2.5	9.5	8.0	14.0	16.0	25.0	24.0	23.0
5	19.0	11.0	13.0	3.0	2.0	11.5	8.0	14.5	17.5	24.5	24.5	23.5
6	19.0	8.0	12.0	3.5	2.5	12.5	9.5	15.0	19.0	22.5	24.5	24.0
7	19.0	7.5	9.5	4.5	3.0	13.0	11.0	16.0	18.5	21.0	24.5	22.5
8	19.5	8.5	7.5	4.5	3.0	13.0	10.5	15.5	18.5	21.0	25.0	22.0
9	19.5	10.0	6.5	4.0	3.0	12.0	9.0	13.0	19.0	22.0	25.0	22.0
10	18.5	10.0	4.5	5.0	3.0	9.0	9.5	12.5	20.0	22.0	23.5	22.5
11	18.5	11.5	4.0	5.5	3.0	6.0	9.5	14.0	20.5	22.0	23.0	23.0
12	17.0	12.0	3.0	4.5	2.5	5.0	9.5	16.0	22.0	23.5	22.5	23.0
13	16.5	9.5	2.5	3.5	2.0	5.5	10.0	17.5	22.5	25.0	22.0	21.5
14	15.5	7.5	2.0	3.5	3.0	7.5	11.0	19.0	23.0	24.5	21.5	20.0
15	14.5	6.5	4.5	3.5	4.0	9.0	10.5	18.5	23.5	25.0	22.0	18.5
16	12.5	6.0	5.5	3.0	5.5	9.0	9.0	14.5	23.0	26.0	22.5	17.0
17	11.0	6.5	4.5	2.0	6.0	9.5	8.5	14.0	---	25.0	23.0	17.0
18	11.5	7.5	3.5	1.0	5.5	9.5	7.0	15.0	---	24.5	23.5	17.5
19	12.0	9.0	3.0	1.0	6.0	9.5	6.5	15.5	---	25.5	24.0	19.5
20	13.0	10.5	3.0	1.0	7.0	7.0	7.5	16.0	---	25.5	25.0	21.0
21	12.0	12.0	3.5	1.5	7.5	6.0	8.5	16.0	---	26.5	24.5	19.5
22	11.5	12.0	3.0	2.5	8.5	4.0	10.5	17.0	---	25.5	25.0	17.0
23	10.0	11.5	4.0	3.0	8.5	3.5	12.0	17.5	---	24.5	24.5	15.0
24	9.0	10.5	5.0	3.5	7.0	4.5	12.5	17.5	24.5	---	24.0	14.0
25	9.5	7.0	7.0	3.0	5.5	5.5	11.0	17.5	23.5	---	24.5	14.0
26	10.0	6.0	8.5	3.0	4.5	6.0	11.5	16.5	23.5	---	24.5	15.0
27	10.5	5.5	7.5	3.0	4.5	7.5	14.0	16.0	24.0	---	25.0	16.0
28	11.5	5.0	9.0	3.0	6.0	7.5	17.0	16.0	23.5	---	24.0	17.0
29	12.0	6.0	8.0	3.0	---	6.0	16.0	16.0	23.0	---	23.5	17.5
30	12.5	7.0	5.0	4.0	---	6.5	15.5	16.0	22.0	---	23.5	17.5
31	13.5	---	3.5	4.0	---	7.0	---	16.0	---	---	23.0	---
MEAN	14.5	9.5	6.5	3.5	4.5	8.0	10.5	15.5	20.5	24.0	24.0	19.5

WTR YR 1983 MEAN 13.0 MAX 26.5 MIN 1.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	3.8	10.1	11.7	11.7	11.4	10.3	7.9	6.5	3.6	---	4.7
2	5.4	3.7	9.3	11.7	11.6	11.2	9.8	8.3	6.5	3.2	5.8	4.2
3	5.7	4.1	8.2	11.4	11.1	10.5	9.5	7.0	5.6	3.3	5.4	4.9
4	5.1	5.1	7.4	11.4	11.7	9.9	10.2	8.0	5.5	3.9	5.9	6.2
5	5.6	7.0	7.2	11.5	12.1	9.4	10.5	8.2	5.7	4.0	6.3	7.0
6	5.2	8.7	7.7	11.2	12.1	8.5	10.1	8.4	5.1	4.2	4.4	7.2
7	4.5	9.3	8.8	10.7	11.7	8.4	9.4	7.9	5.4	4.7	6.4	4.3
8	4.0	9.0	9.7	10.5	11.7	7.3	9.1	7.4	5.4	5.4	7.3	3.4
9	3.3	7.7	10.1	10.3	11.7	7.2	9.9	8.6	5.6	5.5	8.0	4.3
10	3.3	7.3	10.4	10.3	11.5	8.2	9.3	8.8	5.6	5.1	8.8	5.1
11	4.3	6.6	10.7	10.2	11.4	10.3	9.2	8.3	5.5	5.1	6.3	5.6
12	4.6	7.0	10.7	10.7	11.8	11.3	9.5	7.8	6.0	5.4	6.0	5.8
13	4.7	7.3	11.1	11.2	11.6	11.5	9.5	6.5	5.0	5.8	5.6	6.1
14	5.0	8.9	11.2	10.8	11.4	10.8	9.4	6.2	4.9	7.1	6.8	6.7
15	5.4	9.9	10.8	10.4	11.0	10.2	9.0	5.6	4.5	9.4	7.2	6.3
16	6.1	10.3	10.4	10.5	10.6	10.2	9.5	6.9	3.3	7.6	6.7	6.1
17	7.2	10.0	10.9	11.1	10.5	10.2	9.7	7.7	---	8.2	6.2	6.1
18	7.2	9.2	11.3	11.4	11.0	9.8	10.7	7.5	---	6.9	5.1	5.7
19	6.9	8.2	11.7	11.6	11.0	9.6	10.7	6.3	---	6.9	4.7	5.5
20	6.3	7.0	11.6	11.3	10.7	10.0	10.7	6.1	---	8.6	5.0	5.6
21	6.1	6.5	11.8	10.9	10.3	10.8	10.5	6.2	---	9.2	5.4	6.1
22	6.1	6.5	11.9	10.8	10.0	11.4	9.9	5.8	---	7.8	6.7	5.9
23	6.0	7.3	11.8	10.4	9.5	12.3	9.4	6.0	---	---	6.9	6.3
24	6.7	7.8	11.4	10.7	10.3	12.1	8.9	6.0	7.5	---	7.7	7.0
25	6.8	10.1	10.9	11.2	11.2	11.7	10.1	5.9	5.6	---	8.7	7.0
26	6.9	10.8	10.3	11.5	11.8	11.6	10.2	5.8	5.1	---	7.8	6.9
27	6.7	10.9	10.5	11.6	12.0	10.8	9.7	6.3	5.1	---	7.0	6.6
28	6.4	11.0	10.1	11.6	11.6	10.2	8.6	6.5	3.7	---	6.4	6.2
29	6.0	10.1	9.9	11.4	---	10.6	7.6	6.4	3.3	---	7.6	6.3
30	5.5	10.4	11.3	10.9	---	11.0	7.3	6.4	3.3	---	7.9	6.2
31	4.7	---	11.7	10.9	---	11.0	---	6.2	---	---	5.9	---
MEAN	5.6	8.1	10.4	11.0	11.2	10.3	9.6	7.0	5.2	6.0	6.5	5.8

WTR YR 1983 MEAN 8.2 MAX 12.3 MIN 3.2

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 (91 m) downstream from Little Sandy Creek, and 0.6 mi (1.0 km) upstream from Indian Run.

DRAINAGE AREA.--253 mi^2 (655 km^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 (291.084 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height record Oct. 13 to Nov. 16, which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--45 years, 270 ft^3/s (7.646 m^3/s), 14.49 in/yr (368 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft^3/s (425 m^3/s) Jan. 22, 1959, gage height, 10.05 ft (3.063 m), from rating curve extended above 8,000 ft^3/s (227 m^3/s) on basis of contracted-opening and flow-over-road measurement of peak flow; minimum, 6.9 ft^3/s (0.20 m^3/s) Sept. 12, 13, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 10	1700	2750	77.9	6.07	1.850	May 3	2130	*3650	103	*7.12	2.170
Apr. 15	1700	3030	85.8	6.43	1.960						

Minimum discharge, 26 ft^3/s (0.74 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	140	428	326	231	156	340	2050	320	130	77	54
2	33	80	308	282	484	152	311	2480	279	128	90	48
3	31	100	247	252	917	146	516	3510	250	110	80	43
4	29	170	215	213	788	141	637	3230	355	90	72	43
5	28	100	198	189	637	138	526	2030	340	117	72	43
6	27	80	239	180	494	135	458	1270	250	105	82	43
7	31	70	236	170	411	137	502	888	223	87	67	46
8	35	70	195	160	360	156	555	640	193	80	62	46
9	35	75	173	160	297	427	811	550	169	77	59	43
10	33	75	161	168	277	418	2340	466	151	72	54	41
11	33	110	157	290	252	478	2530	397	135	72	54	41
12	31	170	150	277	223	478	1730	343	128	70	56	41
13	32	130	131	206	202	461	1160	308	117	67	54	41
14	32	100	125	196	200	587	942	288	112	64	48	38
15	36	90	136	191	223	642	2350	361	110	62	48	38
16	36	83	440	175	229	541	2190	431	102	62	48	43
17	30	79	435	160	337	441	1500	346	97	62	48	54
18	34	76	306	150	300	380	1040	282	100	64	54	51
19	36	74	277	130	266	737	754	290	102	62	51	46
20	38	75	336	120	244	1140	590	460	146	77	48	46
21	40	85	326	120	228	1060	497	361	133	67	43	72
22	36	185	270	130	218	897	434	406	105	80	43	85
23	34	260	358	166	212	638	386	704	92	95	43	67
24	32	286	934	232	203	491	374	654	87	177	43	56
25	32	263	728	229	194	405	373	553	82	102	43	51
26	36	213	638	200	179	348	315	431	77	85	43	48
27	42	277	572	177	161	346	280	358	75	72	41	48
28	44	328	800	163	157	605	271	305	85	70	43	46
29	44	607	662	157	---	538	264	293	128	67	46	46
30	42	512	509	173	---	406	407	482	105	62	43	43
31	50	---	392	268	---	365	---	397	---	64	54	---
TOTAL	1089	4963	11082	6010	8924	13990	25383	25564	4648	2599	1709	1451
MEAN	35.1	165	357	194	319	451	846	825	155	83.8	55.1	48.4
MAX	50	607	934	326	917	1140	2530	3510	355	177	90	85
MIN	27	70	125	120	157	135	264	282	75	62	41	38
CFSM	.14	.65	1.41	.77	1.26	1.78	3.34	3.26	.61	.33	.22	.19
IN.	.16	.73	1.63	.88	1.31	2.06	3.73	3.76	.68	.38	.25	.21

CAL YR 1982 TOTAL 85356 MEAN 234 MAX 3590 MIN 23 CFSM .93 IN 12.55
WTR YR 1983 TOTAL 107412 MEAN 294 MAX 3510 MIN 27 CFSM 1.16 IN 15.79

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 (3.9 km) upstream from mouth, and 0.5 mi (0.8 km) northeast of Canton.

DRAINAGE AREA.--43.1 mi² (112 km²).

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

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 (319.004 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Part of municipal water supply for city of Canton is pumped from its northeast well field; a portion of pumpage is believed to be derived from creek as recharge to aquifer supplying well field about 1 mi (1.6 km) downstream from gage. Mean pumpage for water year 1983, 10.8 ft³/s (0.31 m³/s). At times low flow regulated by small pools above station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--42 years, 35.9 ft³/s (1.017 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and Maximums (*).

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 15	1300	*439	12.4	*4.79	1.460	May 2	1900	410	11.6	4.65	1.417

Minimum daily discharge, 4.2 ft³/s (0.12 m³/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	8.1	53	43	40	21	50	278	39	30	121	18
2	5.1	8.4	35	36	73	20	45	350	37	32	66	17
3	5.1	8.9	28	33	192	20	57	292	36	27	35	14
4	4.6	12	23	30	124	20	76	304	43	25	25	12
5	4.4	12	22	27	75	20	57	166	44	27	24	11
6	4.2	11	29	25	56	20	49	117	38	25	27	11
7	4.2	8.9	36	24	49	21	57	93	35	23	23	28
8	4.8	8.1	29	24	43	26	95	81	33	22	19	34
9	4.6	7.8	24	23	39	85	92	71	30	21	17	21
10	4.4	7.6	20	25	35	95	278	64	28	21	15	16
11	4.6	7.8	19	46	34	102	182	59	27	20	21	14
12	5.1	12	17	55	31	101	113	55	26	19	24	12
13	4.9	14	15	40	28	94	86	53	25	19	19	11
14	4.8	15	14	34	27	132	90	54	24	19	16	10
15	4.6	12	17	31	25	147	370	68	24	19	15	10
16	4.4	9.2	96	29	28	92	204	86	23	19	13	11
17	4.4	8.4	105	27	49	62	117	73	23	18	13	13
18	4.6	7.8	57	24	49	50	92	59	26	18	12	12
19	4.4	7.6	41	23	41	90	79	61	60	17	12	11
20	4.8	7.3	39	22	35	187	69	67	63	17	12	10
21	4.9	11	38	21	31	124	61	58	60	19	11	15
22	4.9	18	34	22	29	109	55	74	37	27	10	16
23	5.1	26	49	24	28	71	50	197	30	46	11	14
24	5.1	54	261	46	27	57	50	132	26	47	10	12
25	4.9	59	168	55	25	44	49	86	24	23	10	11
26	5.3	43	110	43	24	40	45	70	23	19	10	11
27	6.2	44	97	34	22	43	44	58	22	17	11	10
28	5.7	56	172	29	21	133	43	50	25	16	13	10
29	5.7	121	119	26	---	122	42	47	35	16	19	9.9
30	5.7	92	77	27	---	78	60	47	29	16	19	9.8
31	5.9	---	54	43	---	59	---	42	---	24	19	---
TOTAL	153.1	717.9	1898	991	1280	2285	2757	3312	995	708	672	414.7
MEAN	4.94	23.9	61.2	32.0	45.7	73.7	91.9	107	33.2	22.8	21.7	13.8
MAX	6.2	121	261	55	192	187	370	350	63	47	121	34
MIN	4.2	7.3	14	21	21	20	42	42	22	16	10	9.8

CAL YR 1982 TOTAL 12705.2 MEAN 34.8 MAX 500 MIN 3.9
WTR YR 1983 TOTAL 16183.7 MEAN 44.3 MAX 370 MIN 4.2

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 (2 km) southeast of North Industry, and 3 mi (5 km) downstream from Sherrick Run.

DRAINAGE AREA.--175 mi² (453 km²).

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

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 (295.891 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 13, 1923, nonrecording gage at site 1 mi (2 km) upstream at different datum.

REMARKS.--Records good. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 1983 water year, 14.4 ft³/s (0.41 m³/s). See REMARKS for station 03124500. Water-quality data collected at this site 1964 to 1969, 1975, 1977.

AVERAGE DISCHARGE.--62 years, 184 ft³/s (5.211 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s), and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 15	0900	2,840	80.4	6.21	1.893	May 2	1400	2,630	74.5	5.94	1.811
May 1	0300	*3,240	91.8	*6.69	2.039	July 23	2000	3,160	89.5	6.60	2.012

Minimum daily, 55 ft³/s (1.56 m³/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	147	184	193	177	134	228	2390	200	244	687	135
2	69	73	145	175	622	132	234	2110	189	199	270	124
3	66	85	130	169	757	128	384	1420	207	140	177	112
4	66	169	117	152	410	129	328	1180	334	176	157	103
5	64	84	172	147	285	128	264	626	215	172	196	102
6	64	68	211	140	240	126	242	449	200	134	165	123
7	76	63	150	130	242	124	363	368	192	126	133	361
8	73	63	128	130	217	295	362	326	175	124	131	165
9	60	64	117	128	198	434	605	300	165	120	126	136
10	57	63	111	201	190	384	1440	275	160	118	122	120
11	59	88	108	302	179	443	700	254	153	119	276	110
12	61	181	99	220	168	383	456	236	143	120	156	113
13	60	113	94	177	155	373	384	229	146	120	127	110
14	61	82	94	160	158	504	606	267	148	116	115	108
15	60	76	157	159	168	484	2160	366	156	113	118	106
16	60	75	539	144	183	321	782	397	141	110	118	236
17	56	75	297	130	261	253	487	272	139	128	116	160
18	60	75	187	120	227	236	405	233	135	130	117	113
19	61	74	184	120	196	711	354	320	210	119	115	115
20	62	75	227	110	173	621	314	290	272	116	109	112
21	62	155	190	134	164	526	280	236	218	148	101	320
22	60	227	169	160	161	385	258	540	166	181	110	150
23	57	181	469	173	156	290	234	639	151	791	109	126
24	55	310	1130	248	151	254	267	395	144	491	108	115
25	58	157	524	227	145	220	237	311	134	166	106	108
26	59	202	419	192	135	196	214	285	126	137	107	113
27	61	190	528	168	128	314	213	244	131	127	141	113
28	61	387	671	153	131	761	234	217	318	122	141	113
29	60	460	394	143	---	438	262	230	287	119	136	108
30	56	265	276	203	---	310	636	223	197	124	192	111
31	60	---	223	215	---	265	---	211	---	297	237	---
TOTAL	1918	4327	8444	5223	6377	10302	13933	15839	5552	5447	5019	4141
MEAN	61.9	144	272	168	228	332	464	511	185	176	162	138
MAX	76	460	1130	302	757	761	2160	2390	334	791	687	361
MIN	55	63	94	110	128	124	213	211	126	110	101	102

CAL YR 1982 TOTAL 76054 MEAN 208 MAX 2760 MIN 55
WTR YR 1983 TOTAL 86522 MEAN 237 MAX 2390 MIN 55

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 (2.1 km) upstream from mouth, and 1.4 mi (2.3 km) northeast of Leesville.

DRAINAGE AREA.--48.3 mi² (125 km²).

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 915.00 ft (278.892 m) National Geodetic Vertical Datum of 1929. Prior to May 27, 1942, nonrecording gage at site 100 ft (30 m) upstream at present datum.

REMARKS.--Records good. Flow regulated by Leesville Lake (see station 03120000). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 53.9 ft³/s (1.526 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft³/s (21.0 m³/s) Mar. 4, 1940; maximum gage height, 7.88 ft (2.402 m) Mar. 4, 1940 (backwater from Conotton Creek); no flow several days during 1939-41.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 283 ft³/s (8.01 m³/s) May 10, gage height, 4.59 ft (1.399 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Feb. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	2.6	129	87	68	2.0	71	215	67	37	68	9.8
2	7.3	2.7	142	87	99	2.0	70	185	61	41	82	9.1
3	6.8	3.4	142	119	112	2.0	80	124	58	38	75	8.8
4	6.6	6.5	142	203	112	2.0	110	142	57	32	63	8.3
5	6.3	8.0	142	236	112	2.0	120	127	51	37	50	8.0
6	6.1	7.8	142	119	112	2.0	119	172	46	28	40	7.5
7	6.2	7.5	142	30	155	2.0	117	201	39	19	33	5.3
8	6.6	7.3	142	9.1	183	2.0	117	199	34	16	28	2.6
9	6.6	7.1	142	8.8	100	1.6	127	227	28	14	23	2.3
10	6.5	6.6	142	22	53	1.6	119	278	23	12	17	2.0
11	6.1	6.8	142	71	47	1.6	124	278	20	11	15	1.9
12	5.7	8.0	142	105	44	1.6	119	276	18	10	14	5.2
13	5.3	11	139	41	44	1.6	144	273	18	10	13	10
14	4.9	10	134	9.1	22	1.6	179	271	16	9.1	11	9.1
15	4.2	77	93	9.4	5.7	1.8	117	271	15	8.6	9.4	7.8
16	4.0	112	70	9.4	1.5	1.9	119	276	13	9.1	8.6	9.1
17	5.0	112	68	28	1.8	2.1	166	269	20	9.1	8.0	16
18	5.4	110	68	36	1.8	2.1	189	264	25	11	7.8	14
19	5.2	110	68	36	1.9	2.1	189	232	34	11	7.1	11
20	4.4	110	68	31	1.9	2.1	189	189	68	15	6.5	10
21	4.2	110	107	12	1.9	2.1	193	169	63	27	6.2	22
22	3.7	110	100	11	1.9	5.4	193	110	54	47	5.8	25
23	3.4	108	43	11	1.9	18	193	110	44	46	5.0	18
24	3.2	108	20	37	1.9	34	193	203	34	100	4.4	15
25	2.9	108	20	59	2.0	44	193	253	23	93	5.8	12
26	2.7	108	20	67	2.0	47	191	252	18	72	7.1	10
27	2.6	108	56	30	2.0	52	197	207	16	52	7.1	9.1
28	2.4	108	83	16	2.0	64	203	131	17	43	8.3	8.3
29	2.2	108	85	16	---	71	203	115	31	36	9.1	7.8
30	2.1	108	87	16	---	71	203	110	28	33	8.6	7.1
31	2.1	---	87	43	---	71	---	82	---	32	9.4	---
TOTAL	148.5	1810.3	3107	1614.8	1293.2	517.2	4547	6211	1039	958.9	656.2	292.1
MEAN	4.79	60.3	100	52.1	46.2	16.7	152	200	34.6	30.9	21.2	9.74
MAX	7.8	112	142	236	183	71	203	278	68	100	82	25
MIN	2.1	2.6	20	8.8	1.5	1.6	70	82	13	8.6	4.4	1.9

CAL YR 1982 TOTAL 17310.6 MEAN 47.4 MAX 201 MIN 1.4
WTR YR 1983 TOTAL 22195.2 MEAN 60.8 MAX 278 MIN 1.5

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 (3.5 km) downstream from Dover Dam, 1.5 mi (2.4 km) east of Dover, and 3.4 mi (5.5 km) upstream from Sugar Creek.

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 861.51 ft (262.588 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 30, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good. Diversion from basin at Portage Lakes (See REMARKS for stations 03116000 and 03117000). Records include diversion from Sugar Creek well field. Mean pumpage for the 1983 water year, 14.4 ft³/s (0.41 m³/s) (see REMARKS for station 03124500). Flow regulated by four flood-control reservoirs since 1936 at points 2.2 mi (3.5 km) to 25 mi (40 km) upstream (see stations 03119500, 03120000, 03121000, and 03122000). Water quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--60 years, 1,430 ft³/s (40.50 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft³/s (748 m³/s) Jan. 26, 1937, gage height, 15.51 ft (4.727 m); minimum daily, 6.5 ft³/s (0.18 m³/s) Oct. 26, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,600 ft³/s (159 m³/s) Apr. 19, gage height, 7.16 ft (2.182 m); minimum daily, 261 ft³/s (7.39 m³/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	316	390	2210	1900	1410	664	1800	4210	1520	829	959	538
2	295	727	1800	1650	1790	652	1600	4620	1330	957	1160	482
3	278	601	1550	1460	4240	631	2140	5050	1230	1210	740	423
4	261	614	1370	1290	4760	614	3090	5320	1370	892	620	385
5	265	861	1280	1200	3440	612	2880	5400	1490	866	620	363
6	269	670	1560	1000	2480	582	2440	5320	1220	817	753	363
7	278	487	1680	940	2070	591	2260	5150	1110	652	601	595
8	331	407	1430	860	2030	648	2930	4970	1000	567	512	952
9	331	380	1270	788	1830	1450	3290	4900	903	522	476	589
10	306	374	1180	770	1370	1750	4770	4940	820	487	450	445
11	282	369	1110	1250	1250	1870	5190	4910	760	471	482	401
12	286	466	1080	1690	1160	2140	5260	4860	705	457	645	385
13	291	746	989	1310	1040	2040	5270	4760	659	440	558	401
14	291	676	853	1030	999	2280	4880	4350	637	422	461	385
15	306	531	869	953	1020	2640	4590	3930	619	414	418	369
16	342	632	1860	922	987	2350	5370	3900	607	411	418	385
17	309	645	3260	818	1290	1840	5410	3620	581	419	412	595
18	273	620	2410	770	1450	1530	5280	2800	596	487	412	505
19	291	601	1720	730	1240	1800	5380	1890	692	552	412	429
20	300	595	1890	700	1100	3700	5480	2220	955	490	401	401
21	306	626	2230	670	995	3850	5390	2090	987	462	385	518
22	306	1100	1920	650	931	3730	4870	1950	747	531	374	769
23	295	1440	1780	935	892	2920	3730	3420	649	518	380	589
24	282	1590	3660	1080	871	2180	3420	3580	594	1230	374	461
25	278	1900	4460	1370	807	1810	3110	3190	548	900	369	418
26	291	1490	3470	1300	756	1570	2810	2880	505	608	363	390
27	331	1540	2840	1080	699	1470	2150	2480	477	512	374	385
28	331	1620	3930	918	662	2760	1800	1870	528	466	434	380
29	331	2700	4340	826	---	4050	1460	1580	935	440	466	369
30	336	2960	3220	847	---	3140	1760	1780	891	412	461	363
31	319	---	2310	1290	---	2150	---	1820	---	461	531	---
TOTAL	9307	28358	65531	32997	43569	60014	109810	113760	25665	18902	16021	14033
MEAN	300	945	2114	1064	1556	1936	3660	3670	856	610	517	468
MAX	342	2960	4460	1900	4760	4050	5480	5400	1520	1230	1160	952
MIN	261	369	853	650	662	582	1460	1580	477	411	363	363

CAL YR 1982 TOTAL 493521 MEAN 1352 MAX 5390 MIN 261
WTR YR 1983 TOTAL 537967 MEAN 1474 MAX 5480 MIN 261

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 (305 m) downstream from Beach City Dam, 0.4 mi (0.6 km) downstream from South Fork, and 1.8 mi (2.9 km) southeast of Beach City.

DRAINAGE AREA.--300 mi^2 (777 km^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 (282.854 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 23, 1939, nonrecording gage at site 500 ft (152 m) downstream at datum 1 ft (0.3 m) higher. Mar. 23, 1939, to Sept. 26, 1949, water-stage recorder at site 300 ft (91 m) downstream at present datum.

REMARKS.--Records good. Flood flow regulated by Beach City Lake (see station 03123500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 277 ft^3/s (7.845 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,520 ft^3/s (213 m^3/s) July 6, 1969, gage height, 11.26 ft (3.432 m), from floodmark in well; no flow Oct. 7-30, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,950 ft^3/s (55.2 m^3/s) May 5, gage height, 6.35 ft (1.935 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Oct. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	25	272	348	279	120	382	1100	222	191	141	34
2	18	42	186	286	418	117	336	641	189	320	368	32
3	16	43	149	242	1320	110	613	891	170	759	152	25
4	15	48	126	197	1460	104	855	1270	193	406	90	22
5	14	73	114	170	812	102	603	1730	210	361	73	20
6	14	56	297	165	514	100	464	1850	173	327	72	20
7	14	39	322	159	435	103	458	1850	156	193	60	29
8	28	31	206	149	380	110	617	1830	139	141	49	57
9	39	27	153	133	315	245	753	1830	124	117	42	38
10	28	26	127	131	295	251	1160	1800	111	103	38	25
11	22	26	117	268	259	288	1350	1400	106	92	34	18
12	18	35	111	315	210	348	1610	464	98	82	41	17
13	17	108	84	224	170	394	1800	320	92	73	47	36
14	18	92	60	179	160	538	1670	277	88	64	37	26
15	17	53	96	170	206	568	1280	318	84	60	31	18
16	15	39	401	152	203	416	1700	387	80	56	29	18
17	16	32	711	129	302	325	1780	345	75	56	28	61
18	16	29	416	111	304	277	1360	264	79	80	27	65
19	15	29	302	85	247	350	672	238	83	76	26	38
20	17	29	399	75	212	722	517	315	234	62	26	25
21	15	36	420	85	186	648	418	268	168	54	24	30
22	21	131	332	97	173	700	357	283	110	71	22	88
23	24	224	359	149	167	476	315	789	88	69	19	58
24	23	232	1060	206	158	373	306	672	73	89	18	36
25	22	230	1240	226	149	320	306	438	67	84	19	28
26	22	141	828	197	135	275	253	357	62	59	18	25
27	21	179	644	167	121	261	220	302	58	48	16	23
28	22	205	1090	146	119	704	212	251	67	41	18	22
29	21	590	1220	138	---	1030	205	232	249	38	27	22
30	20	496	718	149	---	641	277	325	171	36	36	20
31	21	---	448	327	---	458	---	281	---	40	29	---
TOTAL	611	3346	13008	5575	9709	11474	22859	23318	3819	4248	1657	976
MEAN	19.7	112	420	180	347	370	762	752	127	137	53.5	32.5
MAX	39	590	1240	348	1460	1030	1800	1850	249	759	368	88
MIN	14	25	60	75	119	100	205	232	58	36	16	17

CAL YR 1982 TOTAL 94178 MEAN 258 MAX 1970 MIN 12
WTR YR 1983 TOTAL 100600 MEAN 276 MAX 1850 MIN 14

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 (46 m) upstream from bridge on State Highway 21, 0.8 mi (1.3 km) upstream from Broad Run, and 0.1 mi (0.2 km) southeast of Strasburg.

DRAINAGE AREA.--311 mi^2 (805 km^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 (273.174 m) 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 (0.610 m) higher.

REMARKS.--Records good. Flood flow regulated by Beach City Lake 5.0 mi (8.0 km) upstream, since August 1937 (see station 03123500). Part of municipal water supply for city of Canton, starting May 1962, is pumped from well field 4.3 mi (6.9 km) upstream; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 1983, 14.4 ft^3/s (0.41 m^3/s). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--26 years (1931-32, 1935-38, 1961-83), 313 ft^3/s (8.864 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft^3/s (558 m^3/s) Aug. 7, 1935, gage height, 14.70 ft (4.48 m) (present datum), from rating curve extended above 8,400 ft^3/s (238 m^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, 2,030 ft^3/s (57.5 m^3/s) May 5, gage height, 5.49 ft (1.673 m); minimum daily, 15 ft^3/s (0.42 m^3/s) Oct. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	20	309	379	301	125	422	1140	256	202	111	34
2	19	32	211	305	402	125	375	732	223	301	395	34
3	17	37	169	260	1290	118	625	952	200	751	178	29
4	16	39	136	218	1530	113	874	1310	213	457	100	25
5	15	62	123	186	864	108	634	1790	233	372	79	23
6	15	52	276	182	543	105	501	1950	200	363	75	22
7	16	36	356	178	464	108	490	1950	178	223	67	25
8	21	29	225	164	412	115	634	1920	160	160	57	53
9	36	24	169	146	347	241	794	1910	142	131	48	41
10	27	23	134	140	312	269	1270	1890	127	115	44	29
11	22	23	122	258	276	290	1400	1510	120	101	41	23
12	19	32	113	343	228	366	1680	528	113	91	42	20
13	18	91	87	249	213	412	1890	369	106	81	51	32
14	18	92	80	200	200	539	1820	320	98	72	43	31
15	18	52	100	186	218	584	1390	353	95	67	38	23
16	17	38	430	167	216	453	1770	415	92	62	34	23
17	16	31	760	136	301	356	1870	392	88	63	33	51
18	16	28	464	118	331	298	1440	298	91	85	33	68
19	16	26	324	110	265	356	709	267	95	88	31	42
20	16	26	412	100	233	714	559	350	238	69	31	29
21	16	32	453	92	206	660	471	305	197	61	30	31
22	17	103	366	98	191	714	408	309	125	73	28	79
23	20	246	366	148	182	512	363	780	98	77	25	62
24	21	228	1070	211	173	408	347	705	84	87	23	40
25	20	256	1300	238	164	353	350	486	75	94	22	32
26	19	156	848	216	148	301	287	398	72	67	24	29
27	19	178	660	184	132	287	254	343	67	55	21	27
28	19	218	1070	160	123	718	241	283	79	48	20	25
29	19	604	1270	148	---	1060	233	262	246	44	25	25
30	18	559	760	152	---	669	273	353	202	42	38	24
31	18	---	486	327	---	493	---	324	---	44	35	---
TOTAL	586	3373	13649	5999	10265	11970	24374	24894	4313	4546	1822	1031
MEAN	18.9	112	440	194	367	386	812	803	144	147	58.8	34.4
MAX	36	604	1300	379	1530	1060	1890	1950	256	751	395	79
MIN	15	20	80	92	123	105	233	262	67	42	20	20

CAL YR 1982 TOTAL 103242 MEAN 283 MAX 2300 MIN 13
WTR YR 1983 TOTAL 106822 MEAN 293 MAX 1950 MIN 15

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 (122 m) downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mi (1.1 km) northwest of Piedmont.

DRAINAGE AREA.--122 mi² (316 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 872.00 ft (265.785 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1949, at site 1,000 ft (305 m) downstream at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. Flow regulated by Piedmont Lake (see station 03125500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 138 ft³/s (3.908 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,470 ft³/s (41.6 m³/s) Dec. 4, 1950; maximum gage height, 11.44 ft (3.487 m) Mar. 5, 1963; minimum daily discharge, 0.2 ft³/s (0.006 m³/s) Sept. 3, 4, 10, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 15, gage height, 9.45 ft (2.880 m); minimum daily, 6.3 ft³/s (0.18 m³/s) Sept. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	10	275	236	141	23	83	219	433	75	18	8.7
2	20	9.4	289	232	233	22	50	358	434	64	19	7.6
3	18	12	283	257	197	21	127	498	440	60	18	7.3
4	14	47	277	272	202	20	163	497	438	60	17	6.9
5	14	50	276	268	176	21	147	321	423	97	18	6.9
6	14	34	286	156	157	21	220	350	408	66	17	6.9
7	14	28	278	61	217	23	280	440	300	56	16	6.6
8	14	24	273	29	307	54	355	437	142	50	15	6.6
9	14	20	269	28	348	139	555	445	108	46	15	6.6
10	14	20	266	73	347	94	678	448	106	41	14	6.3
11	13	20	267	142	259	93	425	442	103	36	13	6.3
12	12	24	265	137	138	84	274	441	99	29	14	8.3
13	11	25	172	91	135	75	255	444	96	26	13	36
14	11	23	76	28	136	63	293	442	93	24	12	23
15	11	153	32	29	75	52	506	889	89	23	11	13
16	9.8	234	206	27	40	44	403	876	88	23	11	11
17	9.8	102	199	112	56	39	272	428	84	23	10	19
18	9.0	122	150	215	45	38	344	356	82	23	11	13
19	8.7	228	159	210	39	98	436	391	86	22	10	11
20	8.7	228	267	106	34	124	444	378	108	21	10	9.8
21	8.3	240	274	19	31	94	449	440	90	20	9.8	15
22	8.3	280	253	24	31	75	442	493	81	26	9.0	14
23	8.3	258	246	33	29	58	442	544	74	27	8.2	11
24	7.9	237	224	38	27	50	449	379	68	55	7.5	9.8
25	7.6	235	182	35	27	67	449	367	64	47	7.3	9.0
26	7.9	234	196	31	26	97	452	433	59	43	7.3	8.3
27	7.6	244	265	29	24	104	452	438	55	39	6.9	8.3
28	7.6	273	323	28	24	173	451	434	59	32	7.3	9.0
29	7.3	317	275	27	---	187	449	438	69	28	8.3	8.7
30	7.6	263	251	40	---	168	421	444	61	21	7.6	8.7
31	8.3	---	242	115	---	161	---	433	---	19	7.9	---
TOTAL	350.7	3994.4	7296	3128	3501	2382	10766	13943	4840	1222	369.1	322.6
MEAN	11.3	133	235	101	125	76.8	359	450	161	39.4	11.9	10.8
MAX	24	317	323	272	348	187	678	889	440	97	19	36
MIN	7.3	9.4	32	19	24	20	50	219	55	19	6.9	6.3

CAL YR 1982 TOTAL 42838.1 MEAN 117 MAX 452 MIN 7.3
WTR YR 1983 TOTAL 52114.8 MEAN 143 MAX 889 MIN 6.3

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 (0.6 km) downstream from Brushy Fork, 3.6 mi (5.8 km) upstream from Weaver Run, 6 mi (10 km) upstream from Laurel Creek, and 9 mi (14 km) south of Dennison.

DRAINAGE AREA.--282 mi² (730 km²).

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 849.00 ft (258.775 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 9, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Clendening Lake on Brushy Fork, 1.9 mi (3.1 km) upstream, and Piedmont Lake, 16 mi (26 km) upstream (see stations 03126500 and 03125500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 323 ft³/s (9.147 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft³/s (125 m³/s) Mar. 7, 1945, Mar. 5, 1963; maximum gage height, 17.29 ft (5.270 m) Mar. 5, 1963; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Oct. 4, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft³/s (60.6 m³/s) May 16, gage height, 14.73 ft (4.490 m); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	32	548	491	321	68	327	1010	971	184	40	16
2	34	40	540	467	518	66	219	1120	968	162	47	16
3	29	43	516	458	1030	61	385	1540	975	162	40	15
4	26	79	500	464	929	57	596	1820	989	151	35	14
5	32	140	490	391	716	58	556	1670	948	417	33	14
6	29	105	534	332	506	56	537	1070	904	283	33	15
7	25	70	554	163	535	64	667	984	665	191	29	14
8	26	65	535	107	657	70	842	1020	319	155	25	14
9	25	57	520	87	689	378	1330	987	206	136	24	13
10	25	51	480	86	656	418	1900	1000	197	120	22	12
11	25	49	446	244	531	367	2030	978	171	105	22	12
12	24	51	445	291	261	355	1480	969	167	88	24	14
13	22	57	404	262	232	329	877	883	154	73	24	60
14	21	62	266	143	233	288	774	690	142	63	20	62
15	22	208	189	110	220	229	1300	1240	136	60	18	30
16	22	478	438	106	119	180	1590	2020	129	68	17	22
17	21	378	671	97	184	148	1200	2010	124	60	16	28
18	21	116	421	306	175	132	862	1290	119	64	16	34
19	20	394	329	287	147	229	1010	920	125	60	17	25
20	20	424	539	238	129	488	980	978	211	53	17	23
21	21	441	668	62	112	409	969	999	164	48	16	28
22	21	536	526	47	103	333	998	1070	143	65	15	52
23	21	596	495	80	99	240	1060	1660	128	78	15	35
24	21	537	764	117	90	188	1070	1600	113	177	14	27
25	21	505	625	150	86	162	1050	1050	103	157	14	23
26	21	475	541	164	86	193	1020	905	95	109	14	20
27	22	483	619	150	73	207	1020	958	87	85	14	17
28	23	516	955	140	70	328	853	951	102	66	15	16
29	22	734	887	136	---	474	637	978	156	54	17	16
30	23	670	671	144	---	421	763	971	132	45	16	15
31	27	---	527	250	---	376	---	960	---	36	17	---
TOTAL	750	8392	16643	6570	9507	7372	28902	36301	9843	3575	686	702
MEAN	24.2	280	537	212	340	238	963	1171	328	115	22.1	23.4
MAX	38	734	955	491	1030	488	2030	2020	989	417	47	62
MIN	20	32	189	47	70	56	219	690	87	36	14	12

CAL YR 1982 TOTAL 101039 MEAN 277 MAX 1510 MIN 20
WTR YR 1983 TOTAL 129243 MEAN 354 MAX 2030 MIN 12

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 (3.5 km) upstream from Little Stillwater Creek.

DRAINAGE AREA.--367 mi^2 (951 km^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 (255.840 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1936, nonrecording gage at site 1.7 mi (2.7 km) upstream at same datum. Auxiliary water-stage recorder below concrete dam at datum 10.00 ft (3.048 m) lower.

REMARKS.--Records fair. Flow regulated by Piedmont Lake, 35 mi (56 km) upstream, and Clendening Lake on Brushy Fork, 22 mi (35 km) upstream, beginning in 1938 (see stations 03125500 and 03126500). Water is diverted from Dennison water-supply dam 1.7 mi (2.7 km) upstream from station for municipal supply of cities of Dennison and Uhrichsville; diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--61 years, 435 ft^3/s (12.32 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,650 ft^3/s (217 m^3/s) Aug. 8, 9, 1935, gage height, 14.2 ft (4.33 m) at former site, 12.8 ft (3.90 m) at present site; no flow at times in 1930, 1932, 1936, 1939-40, 1953, 1973.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,900 ft^3/s (82.1 m^3/s) Apr. 11, (backwater from Tuscarawas River), maximum gage height, 6.28 ft (1.914 m) Apr. 11; minimum daily discharge, 7.5 ft^3/s (0.21 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	46	665	584	352	102	488	1750	1060	299	66	11
2	41	52	584	538	561	100	387	2000	1060	333	77	13
3	35	68	561	508	1290	94	501	2300	1040	424	62	12
4	30	85	536	501	1200	87	840	2500	1070	347	52	11
5	29	143	521	465	1060	83	810	2400	1040	428	45	11
6	31	144	552	417	744	85	729	1600	1020	523	42	11
7	36	98	598	291	596	87	811	1300	900	327	45	12
8	33	71	579	187	675	103	987	1270	595	244	35	8.5
9	33	59	555	128	729	331	1670	1200	336	200	30	8.5
10	39	50	534	106	751	641	2100	1160	260	173	28	8.5
11	37	47	483	157	692	593	2900	1130	244	148	26	7.5
12	40	50	468	315	470	571	2300	1090	230	125	26	8.5
13	40	55	459	321	313	539	1400	1070	215	101	26	8.5
14	40	63	368	263	292	496	1200	871	199	82	24	37
15	41	70	276	162	311	423	1900	967	186	70	20	45
16	40	310	360	142	256	342	2200	1670	177	72	19	22
17	39	448	742	128	243	279	1700	2430	182	85	16	19
18	38	249	632	132	296	244	1300	2510	194	85	17	22
19	37	231	450	309	262	302	1240	1630	200	82	16	26
20	39	409	563	303	221	697	1210	1280	438	69	16	20
21	42	432	760	209	192	710	1150	1220	351	63	16	22
22	42	554	706	85	169	613	1110	1290	248	66	14	28
23	48	665	569	85	157	463	1120	2120	202	80	13	37
24	49	635	882	142	149	356	1150	2200	163	241	13	26
25	50	571	760	182	137	298	1160	2000	142	280	12	20
26	47	525	690	214	128	271	1120	1350	122	182	11	17
27	50	519	750	209	113	300	1090	1110	104	128	11	11
28	52	569	1080	193	106	403	1060	1070	110	92	12	11
29	63	840	1000	177	---	588	835	1070	169	73	12	12
30	67	831	936	182	---	594	878	1140	209	63	14	13
31	67	---	686	258	---	528	---	1090	---	52	17	---
TOTAL	1326	8889	19305	7893	12465	11323	37346	47788	12466	5537	833	519.0
MEAN	42.8	296	623	255	445	365	1245	1542	416	179	26.9	17.3
MAX	67	840	1080	584	1290	710	2900	2510	1070	523	77	45
MIN	29	46	276	85	106	83	387	871	104	52	11	7.5
(+)	1.69	1.59	1.56	1.61	1.49	1.48	1.61	1.65	1.81	1.68	1.84	1.83

CAL YR 1982 TOTAL 126359.0 MEAN 346 MAX 2000 MIN 19 (+) 1.74
WTR YR 1983 TOTAL 165690.0 MEAN 454 MAX 2900 MIN 7.5 (+) 1.65

+ 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 (46 m) downstream from outlet of lake at Tappan Dam, 1 mi (2 km) west of Tappan, and 2 mi (3 km) upstream from Plum Run.

DRAINAGE AREA.--71.1 mi^2 (184 km^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 (262.433 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 30, 1939, water-stage recorder at gate house of Tappan Dam at datum 9 ft (3 m) higher. Jan. 30 to Mar. 24, 1939, nonrecording gage and Mar. 25, 1939, to Aug. 6, 1944, water-stage recorder, at site 150 ft (46 m) downstream at present datum.

REMARKS.--Records good. Flow completely regulated by Tappan Lake (see station 03128000). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 77.8 ft^3/s (2.203 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft^3/s (29.7 m^3/s) Mar. 13, 1939, gage height, 10.00 ft (3.048 m); no flow Sept. 12-15, 18, 19, 21-29, Oct. 13-21, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 704 ft^3/s (19.9 m^3/s) May 11, gage height, 6.71 ft (2.045 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.0	303	66	99	2.8	2.8	126	243	60	15	6.6
2	4.4	4.0	303	66	99	2.6	2.8	131	182	81	17	6.1
3	6.1	3.8	99	131	99	2.5	4.4	134	102	94	16	5.6
4	5.0	3.7	2.2	167	99	2.4	8.1	135	86	94	15	5.4
5	4.0	3.5	2.4	167	99	2.4	16	135	85	108	15	5.4
6	4.0	3.3	2.4	91	99	2.4	34	289	81	105	13	5.4
7	4.2	3.1	3.8	26	192	2.4	60	363	77	98	12	5.3
8	4.4	3.7	4.6	4.2	271	2.4	85	363	72	89	12	4.9
9	4.2	4.2	4.6	4.2	271	2.4	118	398	67	82	11	4.3
10	4.2	4.2	4.6	4.2	167	2.4	122	397	61	73	10	3.7
11	4.0	4.0	4.6	4.2	60	2.4	125	470	54	62	10	3.2
12	4.0	4.2	4.6	4.2	37	2.4	259	594	47	52	10	3.5
13	4.2	4.8	5.3	41	37	2.4	509	403	40	40	9.4	4.4
14	4.2	4.8	6.1	46	37	2.4	477	189	36	32	8.9	4.0
15	4.2	107	6.4	23	16	2.4	236	201	34	26	8.6	3.7
16	4.2	173	84	23	2.5	3.3	397	367	32	21	8.4	4.2
17	4.2	318	113	89	2.5	2.6	468	517	33	20	7.7	4.2
18	4.2	323	99	47	2.5	2.8	491	361	32	24	7.1	4.1
19	4.2	327	99	7.5	3.3	2.8	509	162	43	21	7.4	3.6
20	4.2	327	142	7.5	4.4	2.8	507	138	83	18	7.2	3.6
21	4.2	327	167	7.5	2.5	2.6	506	174	83	17	7.2	5.1
22	4.0	327	167	7.5	2.8	2.6	339	202	76	20	6.9	5.5
23	4.0	323	94	7.5	2.8	2.6	212	314	68	18	6.8	5.1
24	4.0	315	62	27	2.8	2.6	203	514	59	19	6.5	4.8
25	3.8	311	62	38	2.8	2.6	132	502	48	18	6.3	4.5
26	3.8	311	62	62	2.8	2.6	77	499	38	17	6.2	4.1
27	3.8	307	131	75	2.8	2.6	77	359	34	16	6.5	3.8
28	3.8	303	167	49	2.8	2.6	75	110	36	15	6.7	3.5
29	4.0	303	167	14	---	2.8	75	114	47	14	6.8	3.1
30	4.2	303	122	14	---	3.0	92	126	45	13	5.8	1.8
31	4.2	---	66	72	---	3.0	---	232	---	12	6.8	---
TOTAL	129.6	4760.3	2560.6	1392.5	1719.3	80.6	6219.1	9019	2024	1379	293.2	132.5
MEAN	4.18	159	82.6	44.9	61.4	2.60	207	291	67.5	44.5	9.46	4.42
MAX	6.1	327	303	167	271	3.3	509	594	243	108	17	6.6
MIN	3.7	3.1	2.2	4.2	2.5	2.4	2.8	110	32	12	5.8	1.8

CAL YR 1982 TOTAL 23532.52 MEAN 64.5 MAX 562 MIN .77
WTR YR 1983 TOTAL 29709.70 MEAN 81.4 MAX 594 MIN 1.8

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 (46 m) upstream from highway bridge, 0.2 mi (0.3 km) south of Newcomerstown, 2 mi (3 km) upstream from Buckhorn Creek, and 4 mi (6 km) downstream from Dunlap Creek.

DRAINAGE AREA.--2,443 mi^2 (6,327 km^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 (237.744 m) 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 (2.4 km) upstream at datum 5.03 ft (1.533 m)higher prior to Oct. 1, 1934, and 0.03 ft (0.009 m) higher Oct. 1, 1934, to Feb. 13, 1939.

REMARKS.--Records good. Diversion from basin at Portage Lakes (see REMARKS for station 03117000). Flow regulated by eight flood-control reservoirs at points 40 mi (64 km) to 64 mi (103 km) upstream. Water-quality data collected at this site 1946 to 1949, 1955 to 1977.

AVERAGE DISCHARGE.--62 years, 2,541 ft^3/s (71.96 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,800 ft^3/s (1,330 m^3/s) Jan. 26, 1937, gage height, 20.65 ft (6.294 m), site and datum then in use; minimum daily, 170 ft^3/s (4.81 m^3/s) Aug. 6, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 21.5 ft (6.55 m), at site and datum used prior to Oct. 1, 1934, discharge, 83,000 ft^3/s (2,350 m^3/s) computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft^3/s (362 m^3/s) Apr. 15, gage height, 9.30 ft (2.835 m); minimum daily, 285 ft^3/s (8.07 m^3/s) Oct. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551	323	3980	3630	2360	1160	3340	8070	3980	1940	1330	733
2	486	441	3160	3100	3020	1150	2940	11200	3650	2880	2240	682
3	442	868	2780	2750	6120	1110	3350	11600	3340	2880	1690	595
4	405	738	2350	2550	8310	1080	5220	12400	3270	2820	1240	515
5	380	932	2150	2360	7550	1050	5360	11900	3490	2450	1120	469
6	380	1060	2350	2250	5140	1040	4610	11300	3240	2420	1550	438
7	393	822	2730	2020	3960	1030	4300	10600	2920	1970	1200	497
8	454	636	2550	1610	3830	1090	5030	9690	2530	1560	950	1030
9	472	542	2250	1410	3710	1860	7540	9360	2050	1370	824	1060
10	471	506	2080	1310	3320	3090	12100	9220	1770	1250	752	720
11	409	495	1980	1530	2780	3210	12500	9130	1640	1170	717	575
12	362	519	1860	2380	2430	3500	11700	8460	1530	1110	860	552
13	359	802	1780	2330	1990	3580	11200	7730	1430	1040	896	633
14	354	1010	1610	1920	1840	3550	10500	6960	1370	974	796	532
15	342	862	1460	1620	1850	4080	12300	6550	1300	925	680	554
16	359	941	1980	1500	1830	3910	11800	7160	1260	904	620	507
17	394	1380	4200	1400	1860	3170	11500	7610	1280	895	607	693
18	346	1450	4230	1330	2380	2610	11000	7230	1260	988	594	798
19	310	1230	3060	1320	2190	2670	9600	5790	1330	1040	586	679
20	335	1400	2950	1420	1940	4740	9000	5030	2150	1040	575	552
21	331	1520	3570	1300	1750	6060	8690	4960	2190	938	547	631
22	332	2030	3460	1180	1630	5820	8200	5220	1790	962	521	999
23	330	2920	3070	1200	1550	5070	7000	7970	1470	1050	492	993
24	318	2920	4260	1460	1510	3840	6170	8440	1310	1400	488	756
25	302	3330	6940	1890	1440	3100	5860	7710	1200	2020	497	605
26	285	2990	6610	1990	1350	2670	5290	6630	1110	1460	465	539
27	302	2740	5410	1850	1250	2490	4710	5670	1040	1140	459	500
28	348	3070	6260	1610	1190	3270	4100	4690	1010	1000	473	484
29	342	3940	7620	1430	---	5810	3600	3980	1430	916	579	463
30	335	4750	6740	1400	---	5650	3670	4130	1850	841	579	436
31	330	---	4740	1710	---	4140	---	4230	---	797	612	---
TOTAL	11559	47167	110170	56760	80080	96600	222180	240620	59190	44150	25539	19220
MEAN	373	1572	3554	1831	2860	3116	7406	7762	1973	1424	824	641
MAX	551	4750	7620	3630	8310	6060	12500	12400	3980	2880	2240	1060
MIN	285	323	1460	1180	1190	1030	2940	3980	1010	797	459	436

CAL YR 1982 TOTAL 843928 MEAN 2312 MAX 10100 MIN 285
WTR YR 1983 TOTAL 1013235 MEAN 2776 MAX 12500 MIN 285

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 (213 m) downstream from Charles Mill Dam, 2.5 mi (4.0 km) south of Mifflin, and 4 mi (6 km) upstream from Rocky Fork.

DRAINAGE AREA.--217 mi^2 (562 km^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 (299.179 m) National Geodetic Vertical Datum of 1929. Dec. 3, 1941, to Dec. 5, 1944, water-stage recorder at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records poor. Flow regulated by Charles Mill Lake (see station 03129500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 199 ft^3/s (5.636 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) Mar. 13, 1964 from rating curve extended above 1,900 ft^3/s (53.8 m^3/s); maximum gage height, 8.45 ft (2.576 m) Mar. 14, 1939; minimum daily discharge, 0.5 ft^3/s (0.014 m^3/s) Nov. 18, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 11,700 ft^3/s (331 m^3/s), computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 906 ft^3/s (25.7 m^3/s) May 7-8, gage height, 4.70 ft (1.433 m), minimum daily, 0.50 ft^3/s (0.014 m^3/s) Nov. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	25	603	794	139	153	240	210	134	134	21	24
2	29	32	607	658	146	150	220	152	137	345	32	24
3	27	50	553	513	153	150	249	156	126	432	13	24
4	26	166	462	395	160	146	308	231	101	443	25	23
5	24	172	373	319	179	143	384	243	90	443	25	21
6	23	109	319	270	246	143	424	338	90	384	24	20
7	26	92	292	234	267	143	452	757	88	308	22	27
8	31	81	270	204	261	139	401	905	78	198	21	33
9	30	73	246	182	237	139	402	897	49	101	20	36
10	28	32	214	179	217	139	489	885	30	44	17	35
11	29	12	188	175	192	139	650	873	33	26	20	33
12	26	19	175	171	179	132	746	856	35	27	25	29
13	26	33	168	171	171	132	766	844	37	27	23	26
14	25	53	168	168	168	132	729	825	37	27	22	23
15	24	195	168	168	164	87	723	808	36	27	22	19
16	25	255	204	164	160	54	805	785	28	27	21	23
17	21	45	308	160	160	52	831	763	30	27	20	32
18	19	.50	497	157	168	52	810	618	40	40	20	32
19	17	33	680	157	175	54	728	446	47	82	19	33
20	15	150	775	157	179	52	613	350	38	124	19	32
21	16	150	808	153	179	54	500	290	39	73	17	42
22	15	160	817	150	175	54	401	266	39	22	21	40
23	14	192	817	150	171	67	335	253	50	14	20	40
24	14	261	794	146	168	87	298	237	45	20	18	39
25	9.5	297	770	143	160	98	256	193	40	19	16	36
26	8.9	359	756	143	160	101	185	154	35	19	16	35
27	16	413	766	143	157	107	132	127	33	17	16	32
28	16	451	812	143	153	153	108	109	39	17	20	29
29	16	501	841	139	---	217	110	110	49	15	22	27
30	17	553	874	139	---	231	125	120	65	16	21	25
31	17	---	883	139	---	246	---	124	---	17	23	---
TOTAL	660.4	4964.50	16208	6984	5044	3746	13420	13925	1718	3515	641	894
MEAN	21.3	165	523	225	180	121	447	449	57.3	113	20.7	29.8
MAX	31	553	883	794	267	246	831	905	137	443	32	42
MIN	8.9	.50	168	139	139	52	108	109	28	14	13	19

CAL YR 1982 TOTAL 98317.90 MEAN 269 MAX 1330 MIN .50
WTR YR 1983 TOTAL 71719.90 MEAN 196 MAX 905 MIN .50

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 (2.4 km) downstream from Big Run.

DRAINAGE AREA.--349 mi^2 (904 km^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 (283.208 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 23, 1941, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow regulated since 1936 by Charles Mill Lake, 16 mi (26 km) upstream from station (see station 03129500). Records include diversion from Clear Fork Reservoir which enters the Black Fork drainage as sewage effluent from the city of Mansfield (see REMARKS for station 03133500). Water-quality data collected at this site 1958, 1968 to 1977.

AVERAGE DISCHARGE.--52 years, 350 ft^3/s (9.912 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,460 ft^3/s (240 m^3/s) July 5, 1969, gage height, 14.11 ft (4.301 m), from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 29 ft^3/s (0.82 m^3/s) Aug. 7, 8, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft^3/s (65.7 ft^3/s) Apr. 15, gage height, 8.98 ft (2.737 m); minimum daily, 81 ft^3/s (2.29 m^3/s) Nov. 19, Aug. 26, 27, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	147	710	890	249	253	392	1160	287	313	130	110
2	104	144	698	751	491	249	373	1460	296	666	107	89
3	100	136	651	626	680	249	768	1020	284	557	88	88
4	97	216	571	505	415	248	639	1040	278	486	97	86
5	96	232	491	427	368	246	589	690	224	552	105	83
6	96	168	511	376	405	244	608	579	199	446	102	81
7	97	155	424	343	435	245	692	805	209	359	97	169
8	136	147	375	314	401	251	660	1100	203	287	94	115
9	108	142	346	293	366	281	712	1090	181	207	94	108
10	100	131	310	295	352	251	1400	1020	143	156	91	108
11	97	96	299	367	335	274	913	997	141	116	104	103
12	96	151	274	318	303	270	915	956	143	117	150	96
13	95	220	245	287	288	278	939	929	140	115	102	92
14	95	139	255	285	282	282	1160	920	142	113	96	88
15	93	174	339	279	290	239	1520	1080	142	111	92	84
16	91	266	1300	265	300	157	1040	1040	137	112	90	94
17	89	183	614	260	353	152	997	870	137	112	90	249
18	84	86	625	244	315	150	951	770	143	184	90	109
19	87	81	893	250	312	201	853	634	153	149	89	101
20	86	219	1160	242	314	206	771	577	161	218	88	100
21	91	475	984	238	308	256	622	459	142	194	85	208
22	88	495	926	245	304	227	527	514	136	172	111	147
23	86	367	1160	294	296	212	460	561	142	108	95	118
24	85	620	1090	281	287	224	412	467	144	105	87	110
25	83	484	928	260	276	224	354	406	137	102	83	107
26	82	507	945	249	270	233	308	368	130	101	81	103
27	84	660	1240	241	261	248	248	324	124	97	81	102
28	89	748	1630	232	256	453	201	283	131	96	86	96
29	89	931	1090	232	---	490	224	302	206	94	109	92
30	91	723	1010	279	---	480	336	407	164	94	89	90
31	93	---	988	298	---	410	---	287	---	96	89	---
TOTAL	2912	9243	23082	10466	9512	8183	20584	23115	5199	6635	2992	3326
MEAN	93.9	308	745	338	340	264	686	746	173	214	96.5	111
MAX	136	931	1630	890	680	490	1520	1460	296	666	150	249
MIN	82	81	245	232	249	150	201	283	124	94	81	81

CAL YR 1982 TOTAL 172410 MEAN 472 MAX 2220 MIN 81
WTR YR 1983 TOTAL 125249 MEAN 343 MAX 1630 MIN 81

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 (0.3 km) downstream from Pleasant Hill Dam, 2.8 mi (4.5 km) south of Perrysville, and 4.7 mi (7.6 km) upstream from the confluence of Clear Fork and Black Fork.

DRAINAGE AREA.--198 mi^2 (513 km^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 (294.741 m) National Geodetic Vertical Datum of 1929. Prior to May 1, 1947, water-stage recorder at site 0.5 mi (0.8 km) downstream at datum 4.88 ft (1.487 m) lower.

REMARKS.--Records good. Flow regulated by Pleasant Hill Lake (see station 03133000). Water diverted from Clear Fork Reservoir (upstream from Pleasant Hill Lake) for municipal supply of city of Mansfield since 1953; mean pumpage for 1983 water year 9.4 ft^3/s (0.266 m^3/s) returned to Rocky Fork as sewage effluent. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 198 ft^3/s (5.607 m^3/s)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft^3/s (66.3 m^3/s) Jan. 23, 1959, gage height, 4.89 ft (1.490 m); minimum daily, 0.6 ft^3/s (0.017 m^3/s) Nov. 2, 4, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Dec. 28, gage height 3.40 ft (1.036 m); minimum daily, 30 ft^3/s (0.850 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	35	404	539	212	57	174	497	235	90	49	36
2	34	40	327	530	343	63	170	585	212	102	45	36
3	35	42	266	659	679	69	311	737	191	119	42	35
4	33	52	230	604	548	80	437	951	186	119	42	35
5	33	64	225	393	272	83	469	921	179	113	42	35
6	32	62	246	275	272	83	415	796	163	104	40	35
7	34	57	281	214	347	83	378	689	150	92	38	35
8	39	53	287	177	334	83	385	624	138	89	38	35
9	35	49	284	177	204	83	385	600	124	83	37	35
10	34	46	287	177	168	83	548	585	115	74	36	35
11	34	47	284	196	172	83	581	731	107	66	36	35
12	32	53	284	209	152	83	571	796	100	59	36	35
13	33	65	281	170	152	83	548	758	92	58	35	35
14	34	68	281	132	152	84	590	649	87	55	35	35
15	33	115	278	122	89	84	539	445	89	55	33	35
16	34	114	400	122	53	84	562	364	86	53	34	35
17	31	104	659	130	53	83	557	284	83	53	33	35
18	30	111	769	130	55	84	731	233	81	61	34	35
19	32	122	753	111	55	86	753	233	87	61	36	35
20	34	126	747	94	55	102	437	246	97	57	36	35
21	33	128	747	86	55	132	281	241	90	57	35	35
22	32	305	731	87	56	172	212	258	84	63	37	35
23	33	361	445	87	56	182	189	327	78	61	35	35
24	35	376	230	109	56	155	189	343	74	56	38	35
25	36	363	227	174	56	119	182	314	70	50	39	35
26	36	279	233	186	56	113	177	290	66	50	37	35
27	36	262	517	148	56	119	170	263	63	48	36	35
28	36	288	881	115	57	161	165	235	66	45	38	35
29	34	539	818	94	---	199	184	222	71	43	39	35
30	33	509	737	94	---	196	212	258	69	41	37	35
31	33	---	609	172	---	184	---	255	---	42	36	---
TOTAL	1047	4835	13748	6513	4815	3355	11502	14730	3333	2119	1164	1052
MEAN	33.8	161	443	210	172	108	383	475	111	68.4	37.5	35.1
MAX	39	539	881	659	679	199	753	951	235	119	49	36
MIN	30	35	225	86	53	57	165	222	63	41	33	35

CAL YR 1982 TOTAL 81517 MEAN 223 MAX 972 MIN 30
WTR YR 1983 TOTAL 68213 MEAN 187 MAX 951 MIN 30

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 05040002, on right bank 800 ft (244 m) downstream from Mohicanville Dam, 2 mi (3 km) east of Mohicanville, and 2.4 mi (3.9 km) downstream from the confluence of Jerome and Muddy Forks.

DRAINAGE AREA.--271 mi^2 (702 km^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 (283.464 m) National Geodetic Vertical Datum of 1929. Prior to July 25, 1949, water-stage recorder at site 500 ft (152 m).

REMARKS.--Records good except for period of backwater from beaver dam Oct. 1 to Nov. 21, which are poor. Flow regulated by Mohicanville Reservoir (see station 03134500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 237 ft^3/s (6.712 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,490 ft^3/s (155 m^3/s) July 5, 1969, gage height, 14.32 ft (4.365 m); minimum daily, 1 ft^3/s (0.028 m^3/s) June 10, 1947, Jan. 25, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft^3/s (36.8 m^3/s) Apr. 14, gage height, 8.37 ft (2.551 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Sept. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	66	432	444	159	123	241	807	177	244	67	28
2	22	77	292	338	333	118	215	619	165	535	41	18
3	20	137	229	277	892	113	743	452	157	229	31	15
4	21	97	184	215	861	109	946	465	184	117	29	14
5	22	61	164	185	644	107	613	462	181	120	29	13
6	24	49	350	170	421	104	447	460	144	93	28	13
7	28	47	282	167	339	105	447	455	141	70	25	134
8	39	46	186	158	272	105	471	450	117	61	23	78
9	33	47	152	145	216	123	513	445	82	55	23	31
10	28	41	134	146	180	123	1150	438	76	51	21	21
11	31	44	120	235	160	144	1010	699	72	47	43	16
12	32	88	110	245	140	166	712	843	67	44	70	14
13	31	268	105	181	130	232	501	810	63	41	33	16
14	32	128	112	157	130	364	687	778	62	38	27	15
15	30	81	187	152	154	326	897	749	59	36	23	16
16	28	60	1030	132	179	209	1090	775	56	35	22	28
17	30	50	1190	110	447	165	1140	681	103	60	21	109
18	38	46	933	100	330	149	883	371	75	182	21	33
19	42	44	699	90	242	230	573	300	85	82	20	23
20	48	40	868	85	206	590	422	284	96	55	19	19
21	29	140	858	80	182	465	330	212	72	44	18	70
22	30	594	541	95	171	519	260	276	57	43	19	70
23	30	341	709	134	165	260	212	388	50	38	20	37
24	30	707	1040	176	156	219	179	266	46	63	17	26
25	32	467	921	182	145	188	152	202	42	44	16	21
26	34	253	772	156	132	169	147	209	40	36	16	19
27	34	473	709	129	123	169	137	165	38	32	16	19
28	31	433	1110	113	123	627	129	146	57	30	17	18
29	35	904	1060	113	---	709	134	146	143	29	20	17
30	46	737	905	122	---	428	229	270	79	28	18	16
31	125	---	692	202	---	302	---	184	---	29	21	---
TOTAL	1054	6566	17076	5234	7632	7760	15630	13807	2786	2611	814	967
MEAN	34.0	219	551	169	273	250	521	445	92.9	84.2	26.3	32.2
MAX	125	904	1190	444	892	709	1160	843	184	535	70	134
MIN	19	40	105	80	123	104	129	146	38	28	16	13

CAL YR 1982 TOTAL 108610 MEAN 298 MAX 1220 MIN 17
WTR YR 1983 TOTAL 81937 MEAN 224 MAX 1190 MIN 13

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 at downstream side of Tilden Avenue Bridge at Mount Vernon, 0.8 mi (1.3 km) downstream from North Branch, and 2.7 mi (4.3 km) upstream from Dry Creek.

DRAINAGE AREA.--202 mi^2 (523 km^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 (299.972 m) National Geodetic Vertical Datum of 1929. (Levels by Corps of Engineers.) Prior to Apr. 3, 1953, nonrecording gage at same site and datum.

REMARKS.--Records good except those below 50 ft^3/s (1.42 m^3/s),which are poor. Some regulation by Knox Lake, capacity, 3,750 acre-ft (4.62 hm^3), 8.2 mi (13.2 km) upstream on East Branch of North Branch Kokosing River, beginning in 1954 and North Branch Kokosing River Lake 10.0 mi (16.1 km) upstream on North Branch Kokosing River, beginning in June 1972, (see station 03136300). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--30 years, (1954-83), 213 ft^3/s (6.032 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,000 ft^3/s (1,080 m^3/s) Jan. 21, 1959, gage height, 18.19 ft (5.544 m), from rating curve extended above 9,000 ft^3/s (255 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 13 ft^3/s (0.37 m^3/s) Sept. 29, 30, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.240 ft^3/s (91.8 m^3/s) May 2, gage height 6.09 ft (1.856 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Sept. 19, 30, from hydrographic comparison with nearby stations.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	32	443	302	200	113	146	2290	189	123	191	28
2	42	43	314	256	498	110	147	2700	165	143	100	29
3	40	53	250	225	953	107	527	2330	155	133	66	29
4	39	71	212	198	575	103	533	1600	185	108	57	28
5	39	98	189	181	362	101	358	860	163	129	54	28
6	39	73	208	172	293	101	279	561	146	117	50	28
7	41	60	217	168	257	101	315	422	135	88	47	28
8	119	52	183	160	223	101	468	374	123	74	45	28
9	120	47	159	149	197	107	525	338	112	66	45	30
10	80	44	141	154	192	105	1190	283	104	62	44	32
11	59	43	138	185	179	112	725	244	98	58	40	37
12	48	49	128	187	161	110	472	218	91	54	40	35
13	44	69	111	123	149	115	374	198	86	54	38	32
14	42	74	110	135	144	122	517	194	88	52	41	30
15	40	62	134	297	149	117	1210	245	124	52	43	35
16	38	53	1530	230	160	108	675	360	112	58	42	44
17	37	48	1290	200	247	100	449	275	100	53	40	40
18	36	46	578	160	241	99	355	219	90	63	36	35
19	36	44	524	130	207	117	294	207	135	57	35	27
20	35	45	987	100	184	150	252	219	179	51	31	32
21	35	125	577	96	168	186	220	197	139	50	33	40
22	35	606	382	130	158	202	199	271	109	64	36	45
23	34	484	453	170	152	163	186	377	93	169	37	35
24	34	562	784	230	143	144	176	303	83	134	36	31
25	34	485	552	220	134	130	160	236	75	88	35	29
26	33	301	589	190	123	120	149	190	67	65	34	29
27	33	393	1080	160	116	123	142	169	65	55	31	28
28	33	463	2040	130	114	181	151	157	110	52	40	29
29	32	1160	1030	110	---	217	160	194	130	52	35	28
30	32	758	551	100	---	183	277	308	98	52	30	27
31	32	---	379	150	---	159	---	229	---	52	30	---
TOTAL	1384	6433	16263	5398	6679	4007	11631	16768	3549	2428	1462	956
MEAN	44.6	214	525	174	239	129	388	541	118	78.3	47.2	31.9
MAX	120	1160	2040	302	953	217	1210	2700	189	169	191	45
MIN	32	32	110	96	114	99	142	157	65	50	30	27

CAL YR 1982 TOTAL 94444 MEAN 259 MAX 5000 MIN 26
WTR YR 1983 TOTAL 76958 MEAN 211 MAX 2700 MIN 27

WATER RESOURCES DATA FOR OHIO, 1983

VOLUME 1: OHIO RIVER BASIN
VOLUME 2: ST.LAWRENCE RIVER BASIN
STATE-WIDE PROJECT DATA

INTRODUCTION

Water-resources data for the 1983 water year for Ohio consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report (Volumes 1 and 2) contains discharge records of 135 streamflow-gaging stations, stage and contents of 35 lakes and reservoirs, low-flow data for 42 partial-record stations and 10 miscellaneous sites, peak flow information for 70 crest-stage partial-record stations; water-quality data for 24 streamflow-gaging stations, 117 wells and 6 synoptic sites; plus water levels for 168 observation wells. Locations of lake- and streamflow-gaging stations and water-quality stations are shown in figures 3a, and 3b, locations of crest-stage partial-record stations are shown at figures 3c, and 3d. Locations of observation wells are shown in figures 3e and 3f. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State and Federal agencies of Ohio.

Records of discharge and stage of streams, contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey Water-Supply Papers entitled "Surface-Water Supply of the United States." These water-supply papers were published in an annual series through September 30, 1960, and then in 5-year water-supply papers 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in an annual series of water-supply papers entitled "Ground-water Levels in the United States." Water-supply papers may be purchased from Eastern Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Va. 22304.

Publications similar to this report are published annually by the Geological Survey for all States, Puerto Rico, and Pacific Islands under United States juristiction. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report OH-83-1." 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, including current prices, for ordering specific reports 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-resources records since 1898. Organizations that assist in collecting data in this report are:

Ohio Department of Natural Resources, M.H. Shoemaker, director
Ohio Environmental Protection Agency, R.H. Maynard, director
Ohio Department of Transportation, W.J. Smith, director
Miami Conservancy District, L.B. Coy, general manager and secretary
City of Columbus Department of Public Service, R.C. Parkinson, director
City of Canton Water Department, J.D. Williams, superintendent
Northeast Ohio Areawide Coordinating Agency, S.A. Jones, director
Seneca County Soil and Water District, Gene Baltes, Chief, Quality Lab.

The following Federal and State agencies assisted in the data collection program.

Miami Conservancy District
Corps of Engineers, U.S. Army
Ohio Department of Natural Resources.

Funds or services were provided by the U.S. Army corps of Engineers in collecting records for 130 hydrologic-data stations in this report.

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 (0.8 km) upstream from Mohawk Creek, and 1.7 mi (2.7 km) downstream from Mohawk Dam.

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

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 790.00 ft (240.792 m) 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 (6.1 km) upstream at datum 15.53 ft (4.734 m) higher. Oct. 1, 1937, to Sept. 30, 1938, nonrecording gage at present site at datum 2.09 ft (0.637 m) higher.

REMARKS.--Records good. Flow regulated beginning 1936 by 5 flood-control reservoirs at points 1.7 mi (2.7 km) to 54 mi (87 km) upstream (see stations 03129500, 03133000, 03134500, 03136300, and 03138000). Water-quality data collected at this site 1964 to 1977.

AVERAGE DISCHARGE.--62 years, 1,511 ft³/s (42.79 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge at site at Pomerene, 43,800 ft³/s (1,240 m³/s) Jan. 25, 1937; maximum discharge at present site since regulation began at Mohawk Dam, 24,000 ft³/s (680 m³/s) Jan. 25, 26, 1937, gage height, 18.8 ft (5.73 m), present datum (from floodmarks), from rating curve extended above 13,000 ft³/s (368 m³/s); minimum daily discharge, 19 ft³/s (0.54 m³/s) Feb. 27 1954.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,530 ft³/s (213 m³/s) Dec. 28, gage height, 11.43 ft (3.484 m); minimum daily, 241 ft³/s (6.83 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	275	3290	3770	1480	835	1570	4920	1440	936	2060	307
2	301	446	2610	3120	2030	821	1450	3160	1310	1160	1240	319
3	287	465	2270	2610	5200	799	3000	1600	1210	2950	665	275
4	275	469	2140	2500	4760	780	3960	1660	1240	1510	514	264
5	263	659	1920	2050	3140	774	3230	3590	1240	1430	486	254
6	261	621	2140	1660	2470	760	2770	4840	1110	1310	448	246
7	263	504	2240	1570	2260	755	2580	5790	1060	1030	411	284
8	354	450	1780	1380	2160	752	3050	5860	1010	862	379	484
9	449	420	1540	1270	2010	797	3330	5890	934	732	353	349
10	393	404	1410	1230	1760	806	4890	5990	858	627	333	293
11	371	386	1360	1430	1680	840	4650	6050	792	539	320	276
12	337	376	1290	1600	1530	886	5310	5930	756	478	369	271
13	313	672	1160	1410	1410	917	5480	5920	719	467	404	262
14	299	768	1130	1230	1340	1110	3750	5810	681	435	325	252
15	292	598	1190	1170	1210	1230	4560	5270	676	416	304	241
16	284	852	4510	1100	1130	984	5120	5060	677	405	290	246
17	276	872	6170	1040	1400	819	5540	5430	652	423	285	369
18	268	733	4580	959	1580	776	5780	2800	658	611	286	437
19	257	655	3940	909	1340	839	5290	2210	688	658	284	298
20	263	674	5220	860	1230	1330	3300	2160	1060	541	279	275
21	266	981	4850	840	1150	1450	2470	1890	843	555	267	311
22	263	2810	3940	972	1090	1690	2110	1980	698	658	257	504
23	260	2980	3730	1100	1070	1360	1800	3430	617	695	279	383
24	257	2860	5430	1180	1040	1170	1640	2730	582	596	266	322
25	254	3020	4860	1170	979	1080	1490	2240	548	540	252	299
26	257	2220	4220	1180	914	975	1360	1950	514	448	247	289
27	255	2320	4140	1080	858	966	1210	1690	480	404	257	282
28	256	2640	6910	971	834	1740	1160	1470	484	375	280	279
29	262	5190	7390	903	---	2430	1120	1380	697	357	301	271
30	261	4540	6360	950	---	2010	1520	1790	706	340	295	264
31	260	---	4790	1440	---	1730	---	1680	---	336	275	---
TOTAL	8974	40860	108510	44654	49055	34211	94490	112170	24940	22824	13011	9206
MEAN	289	1362	3500	1440	1752	1104	3150	3618	831	736	420	307
MAX	449	5190	7390	3770	5200	2430	5780	6050	1440	2950	2060	504
MIN	254	275	1130	840	834	752	1120	1380	480	336	247	241

CAL YR 1982 TOTAL 685148 MEAN 1877 MAX 7390 MIN 253
WTR YR 1983 TOTAL 562905 MEAN 1542 MAX 7390 MIN 241

03139000 KILLBUCK CREEK AT KILLBUCK, OH

LOCATION (REVISED).--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 (1.9 km) downstream from Black Creek. Prior to Oct. 5, 1976, at site 0.9 mi (1.4 km) upstream.

DRAINAGE AREA.--464 mi^2 (1,202 km^2).

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

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

GAGE.--Water-stage recorder. Datum of gage is 788.05 ft (240.198 m) 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 (1.4 km) upstream at same datum.

REMARKS.--Records poor. Water-quality data collected at this site 1962 to 1977. Sediment data collected 1962 to 1969.

AVERAGE DISCHARGE.--53 years, 415 ft^3/s (11.75 m^3/s), 12.20 in/yr (310 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,500 ft^3/s (1,350 m^3/s) July 5, 1969, gage height, 26.40 ft (8.047 m) (from floodmarks), from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of slope-area measurement of peak flow at site then in use; minimum, 23 ft^3/s (0.65 m^3/s) Sept. 10-15, 28-30, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 28	0930	2060	58.3	14.88	4.535	Apr. 15	1530	3840	109	15.92	4.852
Apr. 10	1230	2630	74.5	15.26	4.651	May 5	0430	*4620	131	*16.37	4.990

Minimum daily discharge 59 ft^3/s (1.67 m^3/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	94	742	1020	457	270	698	2860	443	304	500	83
2	86	145	623	831	860	267	624	3610	390	426	410	80
3	82	153	484	688	1720	266	974	3740	357	447	350	79
4	72	152	388	576	1370	246	972	3710	392	347	290	70
5	69	177	336	490	1180	242	942	3540	387	288	250	66
6	68	155	529	445	1050	229	898	2770	322	240	210	62
7	75	124	499	420	941	226	870	2010	302	190	170	72
8	103	119	418	388	796	227	908	1530	275	164	146	220
9	97	122	338	364	674	244	1090	1230	246	144	135	121
10	96	117	292	362	632	255	2220	1010	232	134	101	86
11	94	116	283	518	557	322	2110	848	220	136	100	71
12	94	134	259	504	488	353	1690	679	206	127	134	66
13	80	230	220	428	420	377	1460	590	193	125	109	62
14	82	218	225	373	404	495	1380	540	180	125	99	59
15	81	167	243	360	428	559	2720	597	171	115	92	60
16	77	142	898	326	446	501	2580	768	166	118	90	67
17	75	125	948	306	531	439	2210	707	165	130	84	111
18	71	115	878	282	542	521	1730	614	166	167	81	99
19	74	113	891	260	521	497	1380	561	206	197	88	78
20	79	107	936	240	458	435	1170	576	223	167	83	82
21	80	131	897	232	402	740	975	523	185	136	73	96
22	83	408	826	248	379	740	816	653	163	151	71	140
23	79	473	907	327	362	660	692	1110	148	138	67	116
24	80	566	1630	386	346	600	615	974	145	173	65	90
25	84	580	1590	422	323	540	541	809	133	139	71	83
26	83	492	1470	397	299	500	479	692	125	145	73	78
27	82	507	1410	346	276	700	437	579	120	150	77	73
28	82	587	1980	301	271	1200	436	502	157	140	106	69
29	82	975	1720	293	---	1100	405	470	303	130	100	64
30	87	852	1450	364	---	900	599	548	211	120	82	66
31	86	---	1240	504	---	768	---	505	---	120	82	---
TOTAL	2551	8396	25550	13001	17133	15419	34621	39855	6932	5633	4389	2569
MEAN	82.3	280	824	419	612	497	1154	1286	231	182	142	85.6
MAX	103	975	1980	1020	1720	1200	2720	3740	443	447	500	220
MIN	68	94	220	232	271	226	405	470	120	115	65	59
CFSM	.18	.60	1.78	.90	1.32	1.07	2.49	2.77	.50	.39	.31	.18
IN.	.20	.67	2.05	1.04	1.37	1.24	2.78	3.20	.56	.45	.35	.21

CAL YR 1982 TOTAL 178825 MEAN 490 MAX 3920 MIN 63 CFSM 1.06 IN 14.34
WTR YR 1983 TOTAL 176049 MEAN 482 MAX 3740 MIN 59 CFSM 1.04 IN 14.11

03140000 MILL CREEK NEAR COSHOCTON, OH

LOCATION.--Lat 40°21'46", long 81°51'45", Coshocton County, Hydrologic Unit 05040003, on left bank 0.5 mi (0.8 km) downstream from Little Mill Creek and 6 mi (10 km) north of Coshocton.

DRAINAGE AREA.--27.2 mi^2 (70.4 km^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 (238.354 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of backwater from beaver dams, July 15 to Sept. 30, which are poor. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 28.9 ft^3/s (0.818 m^3/s), 14.43 in/yr (367 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,720 ft^3/s (247 m^3/s) July 5, 1969, gage height, 13.92 ft (4.243 m), from rating curve extended above 2,200 ft^3/s (62.3 m^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.--Maximum discharge, 662 ft^3/s (18.7 m^3/s) Apr. 15, gage height 8.14 ft (2.481 m), no peak above base of 700 ft^3/s (19.8 m^3/s); minimum daily discharge 0.90 ft^3/s (0.03 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.3	26	37	26	12	35	258	21	20	79	2.8
2	1.3	1.8	19	31	211	11	76	285	18	8.9	20	1.4
3	1.2	1.7	17	28	195	11	194	281	18	8.4	12	1.1
4	1.1	4.7	14	22	92	10	90	197	21	17	9.1	1.0
5	1.2	3.9	27	21	57	10	65	112	15	28	8.3	.93
6	1.1	2.2	61	20	46	9.7	49	80	14	10	8.1	1.2
7	1.0	1.9	28	19	43	10	59	61	13	7.9	5.8	9.1
8	1.7	1.7	22	17	37	11	94	50	11	6.9	5.2	2.2
9	1.7	1.6	18	15	32	15	269	41	9.9	6.5	4.5	1.4
10	1.4	1.5	16	20	30	13	314	36	9.0	6.2	3.8	1.1
11	1.2	1.6	17	39	27	19	140	31	8.4	5.4	3.6	.93
12	1.2	9.7	14	28	24	20	96	28	7.7	4.9	3.7	4.0
13	1.1	10	12	22	22	30	85	26	7.1	4.4	2.8	2.8
14	1.2	3.6	11	21	19	36	144	24	6.6	3.9	2.6	1.3
15	1.2	2.8	24	21	23	30	301	33	6.2	3.5	2.4	.99
16	1.2	2.4	127	17	24	25	118	33	5.6	3.5	2.3	1.7
17	1.0	2.3	51	15	24	23	90	24	6.4	19	2.2	4.8
18	1.1	2.2	35	14	21	23	71	21	6.6	14	2.4	1.8
19	1.1	2.1	60	14	19	44	52	33	87	8.9	2.3	1.5
20	1.1	2.4	69	13	17	40	44	34	40	8.5	2.0	1.4
21	1.2	7.0	47	13	16	52	39	27	18	6.9	1.7	4.4
22	1.2	52	36	17	16	42	34	140	13	16	1.6	2.7
23	1.2	16	100	24	16	35	31	115	10	49	1.3	1.4
24	1.1	37	128	26	15	31	33	57	8.8	39	1.3	1.2
25	1.1	17	80	23	14	27	27	43	7.5	15	1.2	1.1
26	1.1	18	83	20	12	24	24	39	6.6	9.9	1.2	.91
27	1.1	26	141	18	11	31	21	32	6.0	7.7	1.2	1.1
28	1.1	92	166	16	12	105	29	28	9.8	6.3	1.8	1.0
29	1.1	65	88	16	---	57	23	32	14	5.4	3.0	.90
30	1.1	32	64	31	---	44	79	29	9.5	4.5	1.5	1.0
31	1.2	---	46	31	---	40	---	24	---	4.9	1.4	---
TOTAL	37.0	423.4	1647	669	1101	890.7	2726	2254	434.7	360.4	199.3	59.16
MEAN	1.19	14.1	53.1	21.6	39.3	28.7	90.9	72.7	14.5	11.6	6.43	1.97
MAX	1.7	92	166	39	211	105	314	285	87	49	79	9.1
MIN	1.0	1.3	11	13	11	9.7	21	21	5.6	3.5	1.2	.90
CFSM	.04	.52	1.95	.79	1.45	1.06	3.34	2.67	.53	.43	.24	.07
IN.	.05	.58	2.25	.91	1.51	1.22	3.73	3.08	.59	.49	.27	.08

CAL YR 1982 TOTAL 10017.20 MEAN 27.4 MAX 538 MIN 1.0 CFSM 1.01 IN 13.70
WTR YR 1983 TOTAL 10801.66 MEAN 29.6 MAX 314 MIN .90 CFSM 1.09 IN 14.77

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 (2 km) southwest of Coshocton, and 2 mi (3 km) downstream from confluence of Tuscarawas and Walhonding Rivers.

DRAINAGE AREA.--4,859 mi^2 (12,585 km^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 (222.980 m) 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 (1.524 m) higher.

REMARKS.--Records good. Flow regulated by 13 flood-control reservoirs at points 19 mi (31 km) to 88 mi (142 km) upstream. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 4,981 ft^3/s (141.1 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,700 ft^3/s (2,230 m^3/s) Jan. 26, 1937, gage height, 21.98 ft (6.700 m); minimum daily, 420 ft^3/s (11.9 m^3/s) Sept. 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 28.8 ft (8.78 m), discharge, 202,000 ft^3/s (5,720 m^3/s), computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,700 ft^3/s (615 m^3/s) May 4, gage height, 15.47 ft (4.715 m); minimum daily, 747 ft^3/s (21.2 m^3/s) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	798	8700	9330	4290	2540	6050	13300	6290	3260	2960	1160
2	978	908	6800	7760	6130	2510	5440	18600	5760	3770	5130	1190
3	908	1440	5840	6500	12600	2450	7050	18500	5310	6140	3630	1110
4	855	1510	5140	5940	14600	2380	9840	20600	5140	5030	2440	1000
5	815	1670	4590	5270	12900	2330	9990	19900	5220	4390	2040	927
6	787	1940	5210	4640	9720	2290	8800	19700	5010	4160	2340	895
7	800	1670	5610	4430	7930	2260	8080	19100	4600	3640	2090	940
8	875	1400	5150	3880	7160	2280	8900	18000	4230	2970	1760	1300
9	1070	1260	4420	3500	6730	2720	12200	17000	3780	2600	1540	1850
10	1060	1190	4040	3290	6130	3900	19700	16400	3350	2340	1420	1360
11	987	1160	3860	3560	5420	4260	19800	16000	3040	2130	1320	1110
12	916	1160	3670	4450	4910	4610	19300	15300	2860	1950	1360	1090
13	874	1540	3440	4490	4270	4890	19000	14200	2700	1860	1620	1140
14	854	2080	3200	3930	3990	5020	17000	13700	2560	1730	1420	994
15	829	1830	3110	3590	3830	5700	20300	12800	2460	1630	1270	957
16	806	1830	6370	3320	3800	5600	20400	12900	2400	1570	1170	973
17	809	2260	10500	3120	3870	4820	19600	13400	2380	1630	1140	1050
18	817	2390	10700	2790	4510	4160	19300	11600	2430	1960	1110	1510
19	783	2100	8460	2610	4350	4050	17800	9420	2520	2070	1090	1240
20	783	2150	9090	2630	3970	5760	14900	8390	3770	2020	1080	1080
21	798	2530	9590	2570	3690	8080	12900	7870	3630	1920	1040	1110
22	793	4430	8810	2650	3480	8250	11700	8290	3180	2160	986	1500
23	788	6040	8010	2780	3330	7640	10300	13400	2680	2100	955	1670
24	776	5950	10800	3230	3210	6160	8910	12800	2410	2500	957	1410
25	761	6540	13100	3650	3080	5160	8350	11500	2230	2880	919	1170
26	753	5740	12800	3810	2890	4520	7630	9990	2070	2420	901	1060
27	747	5360	11500	3650	2720	4200	6900	8540	1920	1940	892	993
28	771	6140	14700	3300	2600	5150	6190	7420	1860	1700	1000	944
29	794	9650	16700	3000	---	8260	5660	6360	2280	1560	1130	912
30	789	10500	15700	2990	---	8790	5670	6590	2990	1470	1120	871
31	791	---	12000	3710	---	7270	---	6790	---	1400	1060	---
TOTAL	26257	95166	251610	124370	156110	148010	367670	408360	101060	78900	48890	34516
MEAN	847	3172	8116	4012	5575	4775	12260	13170	3369	2545	1577	1151
MAX	1090	10500	16700	9330	14600	8790	20400	20600	6290	6140	5130	1850
MIN	747	798	3110	2570	2600	2260	5440	6360	1860	1400	892	871

CAL YR 1982 TOTAL 1795960 MEAN 4920 MAX 20900 MIN 747
WTR YR 1983 TOTAL 1840919 MEAN 5044 MAX 20600 MIN 747

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 (198 m) downstream from Senecaville Dam, and 1.5 mi (2.4 km) southeast of Senecaville.

DRAINAGE AREA.--118 mi² (306 km²).

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.00 ft (243.535 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 24, 1942, at site 150 ft (46 m) downstream at same datum.

REMARKS.--Records good. Flow regulated by Senecaville Lake (see station 03141000). Water is diverted from Senecaville Lake for U.S. Fish Hatchery; figures for diversion subsequent to 1982 unavailable, diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 132 ft³/s (3.738 m³/s) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 985 ft³/s (27.9 m³/s) revised, Aug. 24, 1980, gage height, 9.69 ft (2.954 m); maximum gage height, 10.96 ft (3.341 m) 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, 770 ft³/s (21.8 m³/s) May 7, gage height, 8.37 ft (2.551 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Jan. 30.

REVISIONS.--Daily discharges in cubic feet per second for the water year 1982 have been revised as shown in the following table. They supersede figures published in WRD-OH-82-1.

Apr. 30, 1982...	33	May 3, 1982...	146	May 12, 1982...	22	May 15, 1982...	165	May 29, 1982...	42
May 1.....	41	4.....	208	13.....	89	16.....	82	30.....	44
2.....	41	5.....	108	14.....	148	28.....	30	31.....	44

	Total	Mean	Max.	Min.	
April 1982	1531.6	51.1	330	3.2	(+) 3.20
May 1982	1275.7	41.1	208	3.0	(+) 2.22
WTR YR 1982	32910.84	90.2	718	.02	(+) 1.86

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	369	310	328	3.7	4.6	350	211	3.9	3.9	3.9	3.7
2	4.8	658	7.3	328	61	4.4	272	208	3.9	4.0	3.9	3.9
3	4.8	615	3.7	436	37	4.6	277	5.0	3.9	3.9	3.9	3.9
4	4.6	655	3.9	508	99	4.6	275	5.2	4.4	3.7	4.2	4.2
5	4.4	645	4.0	511	204	4.6	257	5.8	4.8	4.0	4.8	4.2
6	4.4	631	162	535	204	4.4	248	321	375	27	4.6	4.2
7	4.6	618	314	464	294	4.4	248	685	564	219	4.6	4.2
8	4.8	631	194	307	417	4.0	178	716	251	194	4.6	4.2
9	4.8	668	3.2	305	438	3.9	23	713	4.8	9.5	4.8	4.2
10	4.8	656	3.6	211	434	4.4	113	712	4.2	3.7	4.8	4.2
11	4.8	640	3.4	72	432	4.8	4.4	724	3.9	3.6	4.6	4.2
12	4.8	626	3.2	3.6	429	5.2	245	724	3.6	3.4	4.6	4.4
13	4.8	610	3.2	3.6	423	5.2	569	712	3.7	3.6	4.6	4.2
14	4.6	590	3.0	3.6	425	5.2	560	710	3.9	3.9	4.6	4.0
15	4.6	595	3.2	3.4	191	5.5	41	499	4.0	3.6	4.6	3.9
16	4.6	596	3.2	3.2	4.0	5.2	41	70	4.2	3.6	4.4	4.0
17	4.6	345	6.9	3.2	3.9	3.6	211	538	4.2	3.7	4.6	4.2
18	4.6	34	7.7	3.0	3.9	3.6	474	721	4.4	3.4	4.6	4.2
19	4.6	3.9	3.7	2.7	3.9	4.0	685	719	4.6	3.6	4.6	4.4
20	4.6	3.9	3.7	42	3.9	4.0	700	569	4.6	5.2	4.4	4.6
21	4.6	3.9	4.0	89	3.7	4.6	727	457	4.8	3.6	4.4	4.6
22	4.6	3.9	3.9	89	3.7	4.2	713	423	4.2	3.7	4.4	3.9
23	4.6	3.6	3.9	89	3.7	4.0	713	110	3.7	3.6	4.4	3.7
24	4.6	254	4.0	165	3.2	4.0	712	215	3.9	3.6	4.4	4.0
25	4.6	588	4.0	257	3.6	35	693	501	3.6	72	4.2	4.2
26	4.6	478	4.0	350	3.9	46	719	723	3.6	204	4.0	4.0
27	4.6	267	191	369	4.6	46	729	667	3.6	226	3.9	4.0
28	4.6	267	239	162	4.6	138	724	625	4.0	52	3.6	4.0
29	4.6	350	280	3.6	---	248	724	626	4.0	3.7	3.7	3.9
30	4.6	499	333	2.5	---	387	438	631	4.0	3.7	3.6	3.7
31	4.0	---	331	3.6	---	469	---	251	---	3.7	3.2	---
TOTAL	143.4	12904.2	2444.7	5653.0	4142.3	1476.0	12663.4	14797.0	1300.4	1089.9	133.5	123.0
MEAN	4.63	430	78.9	182	148	47.6	422	477	43.3	35.2	4.31	4.10
MAX	4.8	668	333	535	438	469	729	724	564	226	4.8	4.6
MIN	4.0	3.6	3.0	2.5	3.2	3.6	4.4	5.0	3.6	3.4	3.2	3.7

CAL YR 1982 TOTAL 35411.54 MEAN 96.5 MAX 668 MIN .02
WTR YR 1983 TOTAL 56870.80 MEAN 156 MAX 729 MIN 2.5

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 (1.4 km) downstream from Leatherwood Creek.

DRAINAGE AREA.--406 mi^2 (1,052 km^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 (235.409 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum. Oct. 6, 1927, to Sept. 30, 1928, and May 22, 1937, to Oct. 18, 1938, nonrecording gage at present site and datum.

REMARKS.--Records fair. Flow regulated by Senecaville Lake on Seneca Fork, 22 mi (35 km) upstream, beginning in 1937 (see station 03141000). Water is diverted 2.7 mi (4.3 km) upstream from station for municipal supply of city of Cambridge; diversion not included in figures of daily discharge. Water-quality data collected at this site 1964 to 1975, 1977.

AVERAGE DISCHARGE.--48 years, 452 ft^3/s (12.80 m^3/s) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,500 ft^3/s (241 m^3/s) June 6 or 7, 1963; maximum gage height, 24.51 ft (7.471 m) Aug. 13, 1980 (backwater from tributaries); minimum daily discharge, 0.7 ft^3/s (0.020 m^3/s) Oct. 6, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 8, 1935, reached a stage of 25.4 ft (7.74 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,450 ft^3/s (126 m^3/s) Apr. 11, gage height, 17.38 ft (5.297 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Oct. 3, 24, 25, Sept. 4, 5, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	805	582	279	126	667	1300	478	129	31	16
2	14	350	465	537	635	119	606	1330	233	150	30	14
3	11	624	185	539	1760	114	1280	2300	201	249	40	14
4	12	669	138	642	2120	111	1330	2980	390	251	35	11
5	15	786	122	700	1600	109	1100	3120	823	380	40	11
6	16	715	216	660	1200	109	765	2530	406	350	105	16
7	18	646	435	580	880	121	875	1530	642	149	94	21
8	16	617	472	470	665	145	1220	1100	706	275	43	21
9	16	622	285	380	660	498	2450	1020	330	205	31	18
10	20	642	200	310	676	440	3950	942	142	69	25	14
11	21	635	140	250	655	442	4370	894	122	46	25	11
12	23	628	100	200	611	481	3750	873	113	39	30	17
13	27	624	75	170	593	421	2790	854	97	35	32	30
14	26	613	64	140	591	323	1920	844	86	32	31	28
15	21	598	93	110	622	255	2210	1240	84	34	25	24
16	14	595	934	90	419	205	2880	1870	77	31	21	17
17	12	589	1430	75	440	177	2660	1910	70	33	21	42
18	12	323	792	70	373	179	1740	1310	63	43	24	70
19	12	80	455	65	277	442	1100	1130	75	61	22	34
20	19	31	1140	60	238	758	1030	1430	161	58	19	23
21	14	42	1500	80	207	598	978	1430	149	69	16	38
22	12	163	1000	156	183	494	949	1370	93	185	19	44
23	13	235	500	283	161	337	915	2320	74	195	20	42
24	11	207	700	417	154	263	923	2600	64	620	17	22
25	11	615	1000	463	144	238	998	2060	61	380	16	18
26	13	722	1600	489	145	235	921	1240	55	154	17	16
27	14	582	2400	537	135	273	881	1030	47	227	16	15
28	14	539	2300	521	126	653	866	921	53	211	19	16
29	14	1130	1400	271	---	690	864	856	58	89	21	16
30	16	1080	782	174	---	665	1120	1020	87	38	22	15
31	19	---	646	334	---	734	---	1010	---	32	21	---
TOTAL	494	15722	22374	10355	16549	10755	48108	46364	6040	4819	928	694
MEAN	15.9	524	722	334	591	347	1604	1496	201	155	29.9	23.1
MAX	27	1130	2400	700	2120	758	4370	3120	823	620	105	70
MIN	11	20	64	60	126	109	606	844	47	31	16	11
(+)	5.24	5.04	4.88	5.00	4.72	5.29	5.34	5.31	5.50	5.31	6.27	6.35

CAL YR 1982 TOTAL 126766 MEAN 347 MAX 2590 MIN 11 (+) 5.23
WTR YR 1983 TOTAL 183202 MEAN 502 MAX 4370 MIN 11 (+) 5.37

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

03143500 WILLS CREEK BELOW WILLS CREEK DAM, AT WILLS CREEK, OH

LOCATION.--Lat 40°09'34", long 81°50'51", in sec. 22, T.4 N., R.6 W., Coshocton County, Hydrologic Unit 05040005, on left bank 1,200 ft (366 m) downstream from Wills Creek Dam, 1.3 mi (2.1 km) southeast of town of Wills Creek, 2.7 mi (4.3 km) southeast of Conesville, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--842 mi^2 (2,181 km^2).

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.00 ft (218.542 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 18, 1939, nonrecording gage and Feb. 18, 1939, to Sept. 30, 1949, water-stage recorder, at site 1,500 ft (457 m) downstream at same datum.

REMARKS.--Records excellent. Flow regulated by Senecaville Lake on Seneca Fork, 80 mi (129 km) upstream, Salt Fork Reservoir, 43 mi (69 km) upstream, and Wills Creek Lake, 0.2 mi (0.3 km) upstream (see stations 03141000, 03142290, and 03143000). Water-quality data collected at this site 1957, 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 941 ft^3/s (26.65 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,930 ft^3/s (196 m^3/s) Mar. 7, 1940, gage height, 17.40 ft (5.304 m); maximum gage height, 17.50 ft (5.334 m) Mar. 22, 1964 (backwater from Muskingum River); minimum daily discharge, 1.0 ft^3/s (0.028 m^3/s) Aug. 10, Oct. 27-29, 1948, Jan. 28, 1952, July 6-9, 1969, Apr. 3, 1970, Feb. 25, 1975, Feb. 19, 1976, when gates at Wills Creek Lake were closed.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 22,300 ft^3/s (632 m^3/s), computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,100 ft^3/s (144 m^3/s) Apr. 25, gage height, 15.42 ft (4.700 m); minimum daily, 35 ft^3/s (0.99 m^3/s) Sept. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	41	1420	1540	609	369	1110	2800	1660	265	276	53
2	81	42	1230	1240	862	351	1150	3090	1370	291	251	53
3	74	49	974	1080	1690	337	1270	2250	978	474	218	52
4	66	195	691	978	2610	324	1680	1840	817	477	186	49
5	58	501	496	932	2970	311	2140	2550	764	719	168	47
6	51	696	463	946	2850	298	2150	3560	976	819	165	44
7	48	770	443	940	2200	290	1880	4100	977	831	156	43
8	52	736	504	937	1550	297	1960	4470	855	653	163	40
9	50	689	605	900	1280	356	2930	4730	929	504	173	37
10	50	656	610	793	1190	458	2460	4810	862	487	156	35
11	48	659	492	727	1150	724	3070	4810	626	422	136	35
12	46	676	367	687	1100	848	4230	4900	462	328	123	50
13	44	689	300	624	1040	888	4790	4850	380	266	109	79
14	43	676	269	527	979	930	4730	3250	336	221	99	88
15	45	658	257	444	963	901	3450	2310	303	189	93	81
16	48	643	364	384	968	817	3530	3040	278	170	88	76
17	51	631	713	353	951	724	4130	3570	386	159	85	92
18	50	625	1470	323	868	647	4710	3660	590	183	80	91
19	48	586	1590	280	834	623	4880	3430	425	184	80	87
20	44	437	1300	251	747	726	4860	3070	467	180	76	88
21	43	302	1440	245	659	1020	4900	2830	414	195	73	107
22	42	284	1610	243	597	1300	4950	3060	391	495	67	114
23	40	284	1300	262	550	1240	4900	3980	358	594	65	108
24	40	326	1300	350	510	1080	4900	4070	308	1190	60	102
25	39	367	1870	525	473	912	4960	4150	261	1170	55	95
26	38	421	2290	672	439	795	4860	4130	224	1060	53	86
27	38	668	2350	724	409	731	4350	3680	199	739	51	76
28	38	862	2570	750	387	731	2330	2780	185	532	56	66
29	37	1050	2770	763	---	815	1520	2100	213	474	59	58
30	37	1270	2680	735	---	1050	1590	1830	216	417	57	51
31	39	---	2100	645	---	1120	---	1680	---	329	55	---
TOTAL	1508	16489	36838	20800	31435	22013	100370	105380	17210	15017	3532	2083
MEAN	48.6	550	1188	671	1123	710	3346	3399	574	484	114	69.4
MAX	81	1270	2770	1540	2970	1300	4960	4900	1660	1190	276	114
MIN	37	41	257	243	387	290	1110	1680	185	159	51	35

CAL YR 1982 TOTAL 268230 MEAN 735 MAX 3940 MIN 37
WTR YR 1983 TOTAL 372675 MEAN 1021 MAX 4960 MIN 35

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 (3.2 km) northwest of Frazeysburg, 2.0 mi (3.2 km) downstream from Fivemile Run, and 2.5 mi (4.0 km) upstream from Black Run.

DRAINAGE AREA.--140 mi² (363 km²).

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

REVISED RECORDS.--WSP 1113: 1937(M). WSP 1555: 1952(M).

GAGE.--Water-stage recorder. Datum of gage is 748.12 ft (228.027 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1970 to 1974.

AVERAGE DISCHARGE.--47 years, 154 ft³/s (4.361 m³/s), 14.94 in/yr (379 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Sept. 14, 1979, gage height, 14.07 ft (4.289 m), from rating curve extended above 7,700 ft³/s (218 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.0 ft³/s (0.057 m³/s) Oct. 3, 1963, gage height, 0.94 ft (0.287 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45.3 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 3	0500	1880	53.2	5.44	1.658	May 2	2030	2500	70.8	6.42	1.957
Apr. 10	0930	*2680	75.9	*6.68	2.036	May 3	2130	*2680	75.9	*6.68	2.036
Apr. 15	1030	2520	71.4	6.45	1.966	July 3	1100	2120	60.0	5.83	1.777
May 1	1400	2500	70.8	6.42	1.957						

Minimum discharge, 5.0 ft³/s (0.14 m³/s) Sept. 10-11, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	16	118	176	153	62	105	1990	132	103	120	9.0
2	7.5	17	97	145	715	60	101	1950	115	76	122	8.4
3	7.5	19	76	123	1530	58	445	1930	106	1080	49	7.6
4	7.5	31	69	99	644	55	361	1830	134	254	40	6.8
5	8.0	36	67	90	365	54	271	824	105	506	36	6.7
6	9.0	27	238	88	281	51	242	500	89	258	33	6.8
7	13	19	150	86	253	54	260	365	83	145	30	8.1
8	41	17	103	78	196	53	464	304	74	105	27	8.8
9	14	14	85	70	156	54	1150	246	66	85	23	8.6
10	11	13	72	73	150	53	2170	192	61	74	20	5.9
11	13	14	72	150	135	58	895	162	56	64	19	5.3
12	16	23	66	125	114	60	537	145	52	56	21	11
13	14	53	58	97	109	64	411	130	49	50	19	24
14	11	36	88	90	118	67	532	123	46	46	17	9.8
15	10	22	62	90	116	64	1910	576	44	42	15	6.7
16	10	15	571	76	111	59	830	758	41	39	14	11
17	10	13	352	80	116	55	528	420	61	38	14	24
18	10	13	196	130	103	58	387	271	58	66	14	10
19	10	11	216	137	95	73	304	296	223	71	14	7.8
20	11	13	547	137	90	92	246	319	605	47	13	6.2
21	12	46	348	137	83	95	199	246	181	40	11	8.4
22	12	173	220	137	81	101	164	528	101	110	10	16
23	12	140	220	118	81	86	145	1020	78	255	9.1	10
24	13	111	477	107	78	80	148	514	65	108	8.7	6.9
25	11	90	312	103	75	76	127	340	56	64	8.2	5.7
26	11	63	352	95	67	70	109	281	50	51	7.5	5.4
27	11	86	420	88	60	75	99	209	45	43	8.2	5.0
28	12	162	1030	83	62	135	95	170	44	39	24	5.9
29	11	491	557	80	---	142	103	176	58	36	16	6.0
30	11	202	319	123	---	114	340	242	49	33	13	5.3
31	13	---	227	206	---	109	---	156	---	31	10	---
TOTAL	370.0	1986	7785	3417	6137	2287	13688	17213	2927	4015	785.7	267.1
MEAN	11.9	66.2	251	110	219	73.8	456	555	97.6	130	25.3	8.90
MAX	41	491	1030	206	1530	142	2170	1990	605	1080	122	24
MIN	7.5	11	58	70	60	51	95	123	41	31	7.5	5.0
CFSM	.09	.47	1.79	.79	1.56	.53	3.26	3.96	.70	.93	.18	.06
IN.	.10	.53	2.07	.91	1.63	.61	3.64	4.57	.78	1.07	.21	.07

CAL YR 1982 TOTAL 50137.0 MEAN 137 MAX 2400 MIN 6.5 CFSM .98 IN 13.32
WTR YR 1983 TOTAL 60877.8 MEAN 167 MAX 2170 MIN 5.0 CFSM 1.19 IN 16.18

03144500 MUSKINGUM RIVER AT DRESDEN, OH

LOCATION.--Lat 40°07'13", long 81°59'59", Muskingum County, Hydrologic Unit 05040004, on left bank 70 ft (21 m) downstream from bridge on State Highway 208, 0.5 mi (0.8 km) east of Dresden, and 0.5 mi (0.8 km) downstream from Wakatomika Creek.

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

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

REVISED RECORDS.--WSP 728: 1927(M). WSP 803: 1935. WSP 1385: 1922-23, 1928(M), 1929, 1930(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 693.15 ft (211.272 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 24, 1925, nonrecording gage at about same site and datum.

REMARKS.--Records good except those below 1,500 ft³/s (42.5 m³/s), which are fair. Flow regulated by 16 flood-control reservoirs at points 15 mi (24 km) to 105 mi (169 km) upstream. Water-quality data collected at this site 1966, 1969 to 1977, Water temperatures collected 1952-61, 1963 to 1974, Sediment data collected 1952 to 1974.

AVERAGE DISCHARGE.--62 years, 6,368 ft³/s (180.3 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100,000 ft³/s (2,830 m³/s) Aug. 9, 1935, gage height, 31.6 ft (9.63 m); minimum daily, 335 ft³/s (9.49 m³/s) June 25, 1925.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,100 ft³/s (824 m³/s) Apr. 16, gage height, 17.69 ft (5.392 m); minimum daily, 822 ft³/s (23.3 m³/s) Oct. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	880	11500	13300	5460	3160	8360	17000	9270	4000	2420	1260
2	1120	900	9340	10900	7030	3100	7550	25500	8460	4260	6170	1370
3	1050	1300	7850	9170	14900	3020	8740	25000	7470	7350	4720	1340
4	972	1650	6790	8220	19000	2930	12200	27100	7030	6940	3150	1250
5	910	1960	5820	7450	18300	2840	13600	25500	6960	6190	2530	1170
6	860	2550	6220	6770	15300	2770	12700	25800	6920	6110	2620	1120
7	850	2550	6750	6350	12300	2720	11600	25300	6560	5370	2610	1080
8	1040	2230	6540	5800	10400	2690	12000	25300	5930	4420	2210	1130
9	1120	2040	5800	5160	9380	3020	16800	24100	5590	3700	1950	1920
10	1160	1910	5290	4730	8720	4230	24200	23600	4800	3320	1790	1630
11	1090	1850	4900	4800	7870	5290	26400	23000	4400	2990	1660	1310
12	1010	1870	4530	5680	7160	5800	25600	22600	3900	2660	1620	1270
13	951	2110	4180	6000	6370	6240	26300	21400	3600	2460	1840	1330
14	931	2680	3850	5300	5800	6450	25300	19700	3400	2250	1730	1240
15	910	2640	3680	4720	5510	6970	27400	17600	3200	2110	1560	1140
16	880	2420	6020	4260	5550	7240	28300	18600	3000	2000	1430	1150
17	870	2750	11200	3980	5430	6500	26300	19100	3000	1950	1360	1220
18	900	3040	13500	3540	5980	5590	26700	18200	2900	2360	1340	1560
19	870	2830	11500	3050	6090	5130	25800	15400	3100	2460	1300	1470
20	850	2620	11500	2900	5510	6220	23200	13900	5000	2450	1290	1290
21	860	2810	12300	3040	5010	9190	20600	12600	4900	2290	1250	1300
22	860	4130	11900	3240	4630	10300	19200	12900	4600	2960	1190	1520
23	850	6580	10500	3350	4380	10200	17800	19600	4100	3240	1150	1880
24	841	6580	12300	3830	4160	8640	16100	19700	3600	4110	1140	1660
25	831	7260	15600	4470	3980	7200	15500	18200	3200	4370	1100	1400
26	822	6880	16500	4920	3730	6260	14600	16600	2800	4180	1080	1270
27	822	6350	15600	4920	3470	5680	13500	14600	2500	3240	1070	1190
28	831	7030	18100	4600	3270	6000	10600	12400	2300	2640	1150	1130
29	880	10600	20700	4280	---	8900	8700	10200	3000	2350	1230	1080
30	880	12500	20700	4130	---	10800	8480	9860	3700	2180	1330	1020
31	880	---	17200	4730	---	9860	---	9880	---	1990	1270	---
TOTAL	28931	113500	318160	167590	214690	184940	534140	590240	139190	108900	58260	39700
MEAN	933	3783	10260	5406	7668	5966	17800	19040	4640	3513	1879	1323
MAX	1230	12500	20700	13300	19000	10800	28300	27100	9270	7350	6170	1920
MIN	822	880	3680	2900	3270	2690	7560	9860	2300	1950	1070	1020

CAL YR 1982 TOTAL 2303671 MEAN 6311 MAX 25600 MIN 822
WTR YR 1983 TOTAL 2498241 MEAN 6844 MAX 28300 MIN 822

03145000 SOUTH FORK LICKING RIVER NEAR HEBRON, OH

LOCATION.--Lat 39°59'19", long 82°28'30", in NW 1/4 sec. 3, T.1 N., R.12 W., Licking County, Hydrologic Unit 05040006, on left bank at upstream side of bridge on county road, 800 ft (244 m) downstream from Beaver Run, 2.3 mi (3.7 km) north of Hebron, and 2.5 mi (4.0 km) upstream from Ramp Creek.

DRAINAGE AREA.--133 mi^2 (344 km^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 (260.933 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 13, 1974 nonrecording gage at same site and datum.

REMARKS.--Records good. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft (33.7 hm^3), on unnamed tributary 5.6 mi (9.0 km) upstream from station. Occasional diversion from Buckeye Lake into Jonathan Creek which bypasses station. Water-quality data collected at this site 1969 to 1977.

AVERAGE DISCHARGE.--24 years, 154 ft^3/s (4.361 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,120 ft^3/s (117 m^3/s) Mar. 6, 1945, gage height, 12.1 ft (3.69 m), 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 (3.78 m) present datum, from floodmarks; discharge 5,880 ft^3/s (167 m^3/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) May 2, gage height 10.04 ft (3.060 m); minimum daily, 4.1 ft^3/s (0.12 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	465	368	261	36	30	1630	49	467	16	9.9
2	11	11	576	349	611	34	80	1990	43	200	15	10
3	10	14	553	334	808	32	240	2020	63	84	14	7.5
4	9.5	21	530	258	454	31	200	1740	197	79	13	7.2
5	8.7	19	500	69	349	30	150	967	206	74	12	6.6
6	8.3	20	700	59	320	29	106	737	174	65	12	6.6
7	13	18	580	54	307	29	141	627	53	46	11	7.9
8	25	16	500	48	270	29	509	578	38	38	10	6.6
9	16	12	491	44	87	29	1150	426	37	34	11	5.2
10	16	9.9	462	47	69	29	1010	99	31	31	9.9	4.7
11	16	14	352	91	65	31	491	71	27	29	12	5.5
12	16	28	337	174	58	32	300	60	25	25	11	6.0
13	12	52	305	129	62	34	217	54	26	24	12	9.1
14	9.9	36	187	60	53	38	370	50	24	21	11	7.5
15	9.1	22	225	55	55	36	1030	405	32	23	9.9	6.6
16	8.3	18	1000	47	68	31	617	834	28	22	9.1	9.5
17	7.5	20	680	46	110	27	357	394	26	24	8.7	15
18	7.5	18	400	89	96	25	285	256	48	50	9.9	8.7
19	8.7	53	640	43	74	32	242	320	296	60	9.5	11
20	10	232	1070	31	62	43	181	329	1140	32	7.9	6.9
21	7.5	394	528	30	55	46	80	136	760	26	7.5	11
22	7.2	709	317	39	53	43	66	487	329	25	8.3	7.9
23	7.5	564	321	69	50	34	59	1010	185	33	9.9	6.3
24	14	460	446	191	47	30	58	535	66	39	8.3	5.7
25	16	383	350	244	43	27	55	402	52	26	7.5	6.6
26	14	328	570	206	40	27	48	318	43	22	6.9	6.6
27	16	395	639	174	38	50	44	94	37	20	6.3	6.3
28	11	541	1160	147	36	80	40	66	36	18	8.3	4.7
29	11	1040	613	65	---	60	40	65	87	16	16	4.1
30	11	599	405	198	---	49	274	71	66	14	9.9	5.7
31	11	---	399	370	---	41	---	59	---	16	8.3	---
TOTAL	361.7	6059.9	16301	4128	4601	1124	8470	16830	4224	1683	322.1	222.9
MEAN	11.7	202	526	133	164	36.3	282	543	141	54.3	10.4	7.43
MAX	25	1040	1160	370	808	80	1150	2020	1140	467	16	15
MIN	7.2	9.9	187	30	36	25	30	50	24	14	6.3	4.1

CAL YR 1982 TOTAL 57278.4 MEAN 157 MAX 2300 MIN 6.6
WTR YR 1983 TOTAL 64327.6 MEAN 176 MAX 2020 MIN 4.1

03146500 LICKING RIVER NEAR NEWARK, OH

LOCATION.--Lat 40°03'33", long 82°20'23", in SW 1/4 T.2 N., R.11 W., Licking County, Hydrologic Unit 05040006, on right bank at downstream side of Stadden Bridge, 1.0 mi (1.6 km) downstream from Shawnee Run, 1.5 mi (2.4 km) upstream from Equality Run, and 3.5 mi (5.6 km) east of Newark.

DRAINAGE AREA.--537 mi^2 (1,391 km^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 (237.445 m) National Geodetic Vertical Datum of 1929. Prior to May 9, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft (33.7 hm^3), on South Fork 15.2 mi (24.5 km) upstream. Water-quality data collected at this site 1962 to 1980.

AVERAGE DISCHARGE.--44 years, 589 ft^3/s (16.68 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Jan. 21, 1959, gage height, 20.3 ft (6.19 m) (from high-water mark), from rating curve extended above 24,000 ft^3/s (680 m^3/s) on basis of flood-routing studies from station at Toboso; minimum daily, 28 ft^3/s (0.79 m^3/s) Sept. 27, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft^3/s (184 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 1	0700	6,840	194	10.17	3.100
May 2	1430	*9,200	261	*11.26	3.432
May 3	1900	7,480	212	10.23	3.118

Minimum daily discharge, 49 ft^3/s (1.39 m^3/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	55	910	878	808	227	349	5730	440	1160	469	86
2	61	55	935	784	2310	223	382	7150	412	767	270	84
3	61	63	846	715	3000	213	1630	6290	406	957	185	82
4	61	85	808	628	1560	210	1330	4710	603	591	162	81
5	59	75	831	408	1040	200	886	2620	591	950	152	79
6	61	55	1130	362	902	200	730	1810	523	591	144	82
7	68	61	935	343	831	200	784	1420	367	386	134	79
8	93	55	839	319	753	199	1950	1250	313	319	127	77
9	72	49	720	285	547	194	3520	1070	280	280	122	77
10	67	53	640	313	485	194	4000	716	255	255	120	77
11	82	59	580	456	463	208	1960	626	236	226	120	79
12	65	102	500	580	395	227	1320	580	217	213	104	98
13	65	119	552	450	349	223	1090	531	208	196	110	90
14	63	112	343	370	349	238	1610	492	217	185	104	82
15	61	82	388	600	368	258	4430	1650	222	178	104	81
16	59	72	3600	269	422	248	2100	2290	226	168	102	108
17	55	70	2090	263	642	223	1340	1240	440	193	100	102
18	53	67	1060	218	555	199	1050	880	386	643	100	94
19	55	65	1680	227	463	190	910	943	3500	367	100	77
20	57	232	3390	186	402	223	784	971	2650	240	96	79
21	55	485	1690	181	362	301	628	722	1330	240	90	113
22	59	1370	1010	232	337	520	555	1970	786	330	94	88
23	53	1140	1000	313	325	440	493	3100	620	786	88	81
24	51	996	1490	516	301	370	471	1560	392	354	88	75
25	51	776	1160	600	279	320	435	1080	330	240	88	74
26	53	587	1800	531	248	280	382	806	280	204	86	74
27	55	737	2170	463	232	400	356	632	245	175	82	74
28	57	1360	4240	415	227	600	331	580	250	168	108	72
29	55	2760	2150	331	---	642	343	637	515	157	98	75
30	55	1430	1250	587	---	493	1240	614	698	149	88	72
31	53	---	1020	1160	---	382	---	515	---	152	88	---
TOTAL	1880	13227	41757	13983	18955	9045	37399	55185	17938	11820	3923	2492
MEAN	60.6	441	1347	451	677	292	1247	1780	598	381	127	83.1
MAX	93	2760	4240	1160	3000	642	4430	7150	3500	1160	469	113
MIN	51	49	343	181	227	190	331	492	208	149	82	72

CAL YR 1982 TOTAL 223394 MEAN 612 MAX 7150 MIN 49
WTR YR 1983 TOTAL 227604 MEAN 624 MAX 7150 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 (152 m) downstream from Dillon Dam, 2.0 mi (3.2 km) northwest of Dillon Falls, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--742 mi^2 (1,922 km^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 (213.36 m) Corps of Engineers bench mark. Prior to Oct. 27, 1940, water-stage recorder at site 2.3 mi (3.7 km) downstream at different datum. Oct. 27, 1940, to Sept. 30, 1962, water-stage recorder at site 2.6 mi (4.2 km) downstream at datum 16.3 ft (4.97 m) lower.

REMARKS.--Records good. Flow regulated by Dillon Lake since December 1960 (see station 03147300). 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 (21.52 m^3/s); 23 years (water years 1961-83); 883 ft^3/s (25.01 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Jan. 22, 1959, gage height, 32.46 ft (9.894 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Dec. 22, 1960.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft^3/s (134 m^3/s) May 7, gage height, 9.64 ft (2.938 m); minimum daily, 97 ft^3/s (2.75 m^3/s) Sept. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	103	2460	1570	1110	343	188	673	728	1060	176	103
2	106	103	947	1540	1630	343	122	865	578	1070	400	103
3	108	103	1040	1270	3120	313	128	936	1030	2120	426	103
4	108	111	1030	847	3520	280	1270	606	571	1330	167	103
5	111	120	1030	720	3210	280	2550	1840	678	489	149	103
6	111	114	1520	513	1350	280	528	3830	678	1100	149	103
7	114	114	1410	522	882	280	885	4490	581	704	149	100
8	114	111	1040	413	1290	276	1450	4650	485	527	149	100
9	111	111	935	413	1050	276	309	4600	350	426	149	97
10	111	111	847	413	709	276	201	4550	350	362	149	97
11	111	111	747	636	667	339	229	4520	354	262	149	97
12	111	114	621	683	667	370	762	4450	320	204	146	100
13	111	149	527	699	503	370	1540	4430	294	218	146	103
14	108	221	522	522	422	370	1410	4480	290	238	149	100
15	108	400	444	378	513	370	234	4310	287	238	125	108
16	106	480	1920	430	581	294	610	4430	283	238	103	122
17	106	316	3420	466	601	272	1410	4490	387	238	103	120
18	106	195	2730	374	808	272	2820	3240	546	238	103	117
19	106	176	1650	224	693	392	4310	1920	576	415	103	120
20	106	173	3030	198	581	426	4370	1360	2620	532	103	120
21	103	298	3590	280	601	374	4310	1260	3980	450	103	117
22	103	1370	2640	339	439	457	4190	1030	3010	383	103	117
23	103	2150	1230	444	435	453	4170	1470	1490	453	103	117
24	103	977	1530	596	462	350	4100	4100	796	823	103	117
25	100	561	1540	736	457	324	4030	3920	548	792	114	117
26	100	830	1540	780	391	328	3350	2920	370	162	106	117
27	100	808	2280	646	343	290	2010	1230	370	140	106	117
28	100	808	3540	485	343	347	1300	1060	374	117	106	117
29	103	2080	4020	513	---	1080	841	853	374	158	106	120
30	103	3120	3050	513	---	865	439	667	501	176	103	120
31	103	---	1590	1470	---	258	---	742	---	176	103	---
TOTAL	3300	16438	54420	19633	27378	11548	54066	83922	23799	15839	4449	3295
MEAN	106	548	1755	633	978	373	1802	2707	793	511	144	110
MAX	114	3120	4020	1570	3520	1080	4370	4650	3980	2120	426	122
MIN	100	103	444	198	343	258	122	606	283	117	103	97

CAL YR 1982 TOTAL 313699 MEAN 859 MAX 4020 MIN 70
WTR YR 1983 TOTAL 318087 MEAN 871 MAX 4650 MIN 97

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 (5.6 km) downstream from Oilspring Run.

DRAINGE AREA.--7,422 mi^2 (19,223 km^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 (198.214 m) National Geodetic Vertical Datum of 1929. Prior to July 27, 1922, nonrecording gage at site 0.5 mi (0.8 km) upstream at same datum. July 27, 1922, to Aug. 10, 1926, nonrecording gage and Aug. 11, 1926, to Sept. 8, 1959, water-stage recorder at present site and datum. Sept. 9, 1959, to July 18, 1960, nonrecording gage at site 0.5 mi (0.8 km) upstream at same datum.

REMARKS.--Records good. Flow regulated by 17 flood-control reservoirs 36.6 mi (58.9 km) to 148 mi (238 km) upstream from station. Some regulation at low flow by powerplant 19 mi (31 km) upstream from station.

AVERAGE DISCHARGE.--62 years, 7,596 ft^3/s (215.1 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 126,000 ft^3/s (3,570 m^3/s) Jan. 26, 1937, gage height, 21.14 ft (6.443 m); minimum daily, 325 ft^3/s (9.20 m^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 (10.21 m), discharge, 270,000 ft^3/s (7,650 m^3/s), computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,700 ft^3/s (1120 m^3/s) Apr. 15, gage height, 10.68 ft (3.255 m); minimum daily, 1,180 ft^3/s (33.4 m^3/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	1560	16000	17000	8110	4050	9640	17200	11100	5190	2340	1440
2	1790	1560	12300	14300	10800	4050	8760	31000	10300	5930	5560	1490
3	1680	1720	10500	12300	19300	3990	11000	34100	9160	9820	6470	1520
4	1550	2520	9270	10300	23200	3830	13800	35000	9160	10400	4320	1430
5	1470	2800	8220	9600	23100	3700	17000	29600	8650	7760	3250	1330
6	1500	3150	9020	8510	19400	3650	15000	29500	8440	8010	2890	1210
7	1460	3470	9600	8040	15200	3500	14200	29600	8080	6970	3110	1180
8	1670	3350	8950	7410	13500	3500	19100	29800	7210	5710	2850	1210
9	1930	3080	8080	6670	12100	3630	26200	28500	6510	4810	2520	1580
10	2040	2800	7310	6210	10800	4350	31900	27700	5960	4160	2280	2080
11	2020	2710	6840	6310	10000	5860	28900	27000	5310	3780	2110	1720
12	1860	2710	6310	7040	9160	6540	27200	26700	4750	3350	2060	1490
13	1740	2800	5530	7410	8290	7070	27800	25700	4350	3060	2020	1640
14	1640	3300	5190	7170	7140	7380	28300	24600	4050	2780	2150	1580
15	1580	3860	5400	6250	7170	7620	36400	23800	3810	2630	2000	1390
16	1530	3780	9750	5680	7520	8260	30500	25300	3700	2500	1790	1340
17	1470	3700	15000	5400	7480	7590	28500	24100	4070	2420	1620	1740
18	1440	3940	17400	4670	8080	6670	28600	23100	5140	2750	1610	1620
19	1460	3970	16300	3860	7550	6250	30100	19700	4810	3200	1590	1910
20	1440	3760	17300	3730	6800	6970	28100	17700	7650	3370	1530	1690
21	1400	3970	17400	3810	5990	9710	25300	15700	9780	3200	1490	1640
22	1370	5930	16500	4270	5800	11400	23700	20400	8620	3700	1440	1700
23	1410	9860	14800	4640	5560	11400	22300	25000	6250	5280	1520	1980
24	1390	9310	16300	5310	5310	10100	20800	25500	4640	6340	1390	2130
25	1370	8580	18300	5990	4930	8510	19700	23400	4070	5900	1310	1890
26	1330	8800	21000	6440	4720	7480	18700	21300	3500	5340	1250	1650
27	1360	8360	20600	6570	4450	6770	16500	17500	3250	4160	1220	1550
28	1370	9640	23000	6180	4270	6940	13600	15100	3080	3300	1220	1460
29	1430	13800	25300	5860	---	9640	10900	13100	3200	2850	1400	1340
30	1460	16500	25000	5830	---	12400	12200	11800	3830	2650	1520	1300
31	1520	---	21000	6800	---	11100	---	11600	---	2500	1500	---
TOTAL	48580	155290	423470	219560	275730	213910	644700	730100	182430	143820	69330	47230
MEAN	1567	5176	13660	7083	9848	6900	21490	23550	6081	4639	2236	1574
MAX	2040	16500	25300	17000	23200	12400	36400	35000	11100	10400	6470	2130
MIN	1330	1560	5190	3730	4270	3500	8760	11600	3080	2420	1220	1180

CAL YR 1982 TOTAL 2911670 MEAN 7977 MAX 29900 MIN 1220
WTR YR 1983 TOTAL 3154150 MEAN 8642 MAX 36400 MIN 1180

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 (1.6 km) 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 (152,000 tonnes) Aug. 11, 1980; minimum daily, 33 tons (30 tonnes) Jan. 28, 1983.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 549 mg/L Apr.15; minimum daily mean, 2 mg/L Jan. 28.
SEDIMENT LOADS: Maximum daily, 54,000 tons (49,000 tonnes) Apr. 15; minimum daily, 33 tons (30 tonnes) Jan. 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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 13...	0900	1740	900	7.9	14.0	17.5	17	6.6	71	30
DEC 16...	0815	9060	635	7.9	3.0	4.5	36	12.6	100	3000
FEB 23...	1000	5560	560	7.7	5.0	7.0	15	12.4	106	1100
APR 19...	1030	30400	380	7.7	1.5	7.5	53	11.6	99	970
JUN 07...	0900	8180	625	8.0	18.0	18.5	21	9.5	104	300
SEP 20...	0930	1650	880	8.0	24.0	22.0	9.4	6.9	81	150

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 13...	10	87	28	52	25	1.3	5.1	130	200	86
DEC 16...	12000	66	21	31	21	.9	3.6	106	130	50
FEB 23...	290	63	19	28	20	.8	3.2	105	110	46
APR 19...	2600	40	12	16	19	.6	2.8	65	79	24
JUN 07...	100	72	23	23	15	.6	2.9	108	160	40
SEP 20...	110	76	22	66	33	1.8	6.0	134	160	110

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 13...	.4	3.9	590	1.1	.320	.41	1.00	.160	.030	.050
DEC 16...	.2	7.5	392	1.6	.190	.24	1.30	.190	.050	.050
FEB 23...	.2	6.6	357	2.1	.130	.17	.80	.100	.020	.010
APR 19...	.2	7.5	271	1.8	.060	.08	.60	.160	.020	.020
JUN 07...	.2	5.7	470	1.1	<.010	--	.50	.090	.010	.020
SEP 20...	.4	6.1	610	1.4	.160	.21	.70	.130	.060	.020

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT											
13...	0900	1740	60	2	89	<1	1	3	3	12	19
DEC											
16...	0815	9060	210	1	64	<1	<1	<1	<3	13	38
FEB											
23...	1000	5560	--	--	--	--	--	--	--	--	--
APR											
19...	1030	30400	30	1	75	<1	<1	<1	<3	6	61
JUN											
07...	0900	8180	100	1	80	<1	<1	<1	<3	5	12
SEP											
20...	0930	1650	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
13...	3	17	750	.1	<10	11	<1	2	380	<6.0	<4
DEC											
16...	1	9	310	<.1	10	7	<1	<1	350	<6.0	8
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	2	6	130	.1	<10	7	<1	<1	170	<6.0	5
JUN											
07...	1	14	100	.4	<10	4	<1	<1	320	<6.0	6
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
13...	0900	1740	17.5	42	197
DEC					
16...	0815	9060	4.5	76	1860
FEB					
23...	1000	5560	7.0	32	480
APR					
19...	1030	30400	7.5	130	10700
JUN					
07...	0900	8180	18.5	37	817
SEP					
20...	0930	1650	22.0	35	156

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
APR							
13...	1200	27800	150	11300	36	48	57

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
APR						
13...	67	77	84	91	98	100

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1900	15	77	1560	18	76	16000	40	1730
2	1790	19	92	1560	18	76	12300	42	1390
3	1680	18	82	1720	18	84	10500	41	1160
4	1550	20	84	2520	48	327	9270	40	1000
5	1470	19	75	2800	44	333	8220	38	843
6	1500	19	77	3150	43	366	9020	35	852
7	1460	18	71	3470	44	412	9600	35	907
8	1670	19	86	3350	45	407	8950	30	725
9	1930	26	135	3080	42	349	8080	30	654
10	2040	27	149	2800	43	325	7310	25	493
11	2020	22	120	2710	46	337	6840	25	462
12	1860	20	100	2710	40	293	6310	25	425
13	1740	21	99	2800	41	310	5530	20	299
14	1640	20	89	3300	40	356	5190	20	280
15	1580	22	94	3860	37	386	5400	25	364
16	1530	16	66	3780	36	367	9750	42	1110
17	1470	20	79	3700	34	340	15000	86	3480
18	1440	20	78	3940	32	340	17400	115	5400
19	1460	17	67	3970	30	322	16300	110	4840
20	1440	20	78	3760	25	254	17300	105	4900
21	1400	16	60	3970	28	300	17400	100	4700
22	1370	18	67	5930	35	560	16500	100	4450
23	1410	18	69	9860	41	1090	14800	95	3800
24	1390	20	75	9310	35	880	16300	100	4400
25	1370	14	52	8580	30	695	18300	121	5980
26	1330	25	90	8800	25	594	21000	169	9580
27	1360	17	62	8360	20	451	20600	155	8620
28	1370	18	67	9640	38	989	23000	193	12000
29	1430	19	73	13800	72	2680	25300	246	16800
30	1460	20	79	16500	103	4590	25000	237	16000
31	1520	19	78	---	---	---	21000	185	10500
TOTAL	48580	---	2570	155290	---	18889	423470	---	128145
		JANUARY			FEBRUARY			MARCH	
1	17000	150	6880	8110	20	438	4050	16	175
2	14300	75	2900	10800	85	2480	4050	18	197
3	12300	40	1330	19300	298	15500	3990	17	183
4	10300	35	973	23200	203	12700	3830	18	186
5	9600	25	648	23100	87	5430	3700	16	160
6	8510	15	345	19400	50	2620	3650	22	217
7	8040	18	391	15200	35	1440	3500	21	198
8	7410	21	420	13500	30	1090	3500	18	170
9	6670	12	216	12100	20	653	3630	22	216
10	6210	14	235	10800	22	642	4350	22	258
11	6310	10	170	10000	21	567	5860	16	253
12	7040	7	133	9160	15	371	6540	18	318
13	7410	6	120	8290	16	358	7070	20	382
14	7170	6	116	7140	14	270	7380	16	319
15	6250	7	118	7170	20	387	7620	19	391
16	5680	10	153	7520	21	426	8260	19	424
17	5400	8	117	7480	16	323	7590	18	369
18	4670	6	76	8080	22	480	6670	15	270
19	3860	22	229	7550	19	387	6250	16	270
20	3730	6	60	6800	19	349	6970	21	395
21	3810	12	123	5990	21	340	9710	35	918
22	4270	10	115	5800	14	219	11400	45	1390
23	4640	7	88	5560	18	270	11400	28	862
24	5310	4	57	5310	16	229	10100	22	600
25	5990	4	65	4930	15	200	8510	28	643
26	6440	4	70	4720	18	229	7480	25	505
27	6570	5	89	4450	14	168	6770	20	366
28	6180	2	33	4270	12	138	6940	42	787
29	5860	3	47	---	---	---	9640	80	2080
30	5830	4	63	---	---	---	12400	45	1510
31	6800	18	330	---	---	---	11100	30	899
TOTAL	219560	---	16710	275730	---	48704	213910	---	15911

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	9640	28	729	17200	108	5020	11100	65	1950
2	8760	26	615	31000	382	32000	10300	62	1720
3	11000	35	1040	34100	487	44800	9160	48	1190
4	13800	50	1860	35000	326	31000	9160	40	989
5	17000	48	2200	29600	194	15500	8650	58	1350
6	15000	30	1220	29500	131	10400	8440	44	1000
7	14200	25	958	29600	116	9270	8080	32	698
8	19100	136	7010	29800	104	8370	7210	25	487
9	26200	271	19200	28500	103	7930	6510	21	369
10	31900	406	35000	27700	94	7030	5960	21	338
11	28900	320	25000	27000	92	6710	5310	21	301
12	27200	286	21000	26700	86	6200	4750	20	256
13	27800	168	12600	25700	80	5550	4350	24	282
14	28300	314	24000	24600	70	4650	4050	26	284
15	36400	549	54000	23800	70	4500	3810	22	226
16	30500	364	30000	25300	154	10500	3700	12	120
17	28500	312	24000	24100	86	5600	4070	12	132
18	28600	311	24000	23100	91	5680	5140	28	389
19	30100	357	29000	19700	96	5110	4810	61	792
20	28100	310	23500	17700	94	4490	7650	101	2090
21	25300	217	14800	15700	76	3220	9780	110	2900
22	23700	211	13500	20400	440	28700	8620	89	2070
23	22300	191	11500	25000	487	32700	6250	66	1110
24	20800	157	8820	25500	271	18700	4640	42	526
25	19700	139	7390	23400	242	15300	4070	36	396
26	18700	127	6410	21300	116	6670	3500	34	321
27	16500	103	4590	17500	93	4390	3250	27	237
28	13600	71	2610	15100	84	3420	3080	24	200
29	10900	48	1410	13100	68	2410	3200	20	173
30	12200	61	2010	11800	70	2230	3830	22	228
31	---	---	---	11600	64	2000	---	---	---
TOTAL	644700	---	409972	730100	---	350050	182430	---	23124
		JULY			AUGUST			SEPTEMBER	
1	5190	29	406	2340	38	240	1440	51	198
2	5930	42	672	5560	50	751	1490	50	201
3	9820	179	5010	6470	86	1500	1520	47	193
4	10400	211	5920	4320	63	735	1430	48	185
5	7760	110	2300	3250	33	290	1330	58	208
6	8010	113	2440	2890	45	351	1210	47	154
7	6970	100	1880	3110	55	462	1180	62	198
8	5710	75	1160	2850	53	408	1210	78	255
9	4810	120	1560	2520	46	313	1580	41	175
10	4160	67	753	2280	47	289	2080	68	382
11	3780	82	837	2110	42	239	1720	41	190
12	3350	35	317	2060	57	317	1490	37	149
13	3060	34	281	2020	52	284	1640	45	199
14	2780	40	300	2150	40	232	1580	40	171
15	2630	36	256	2000	82	443	1390	74	278
16	2500	38	256	1790	51	246	1340	44	159
17	2420	29	189	1620	67	293	1740	38	179
18	2750	16	119	1610	33	143	1620	57	249
19	3200	17	147	1590	35	150	1910	47	242
20	3370	30	273	1530	32	132	1690	41	187
21	3200	30	259	1490	31	125	1640	24	106
22	3700	23	230	1440	40	156	1700	32	147
23	5280	70	1050	1520	28	115	1980	33	176
24	6340	71	1220	1390	40	150	2130	32	184
25	5900	82	1310	1310	26	92	1890	36	184
26	5340	111	1600	1250	24	81	1650	31	138
27	4160	26	292	1220	20	66	1550	30	126
28	3300	28	249	1220	31	102	1460	23	91
29	2850	31	239	1400	41	155	1340	30	109
30	2650	26	186	1520	37	152	1300	30	105
31	2500	43	290	1500	39	158	---	---	---
TOTAL	143820	---	32001	69330	---	9170	47230	---	5518
YEAR	3154150		1060764						

RESERVOIRS IN MUSKINGUM RIVER BASIN, OH

03119500 BOLIVAR RESERVOIR NEAR BOLIVAR.--Lat 40°38'56", long 81°25'57", Tuscarawas County, Hydrologic Unit 05040001, in gage house of dam on Sandy Creek, 1.1 mi (1.8 km) east of Bolivar. DRAINAGE AREA, 504 mi² (1,305 km²). PERIOD OF RECORD, June 1938 to September 1983 (discontinued). Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 895.0 ft (272.80 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Reservoir is formed by earthfill dam completed Nov. 15, 1937. Usable capacity 149,500 acre-ft (184 hm³) between elevations 895.0 ft (272.80 m) (lowest outlet), and 962.0 ft (293.22 m) (crest of spillway). Dead storage below elevation 895.0 ft (272.80 m), 113 acre-ft (139,000 m³). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,440 acre-ft (81.9 hm³) Mar. 8, 1979, elevation, 944.90 ft (288.006 m); minimum, 62 acre-ft (76,400 m³) Oct. 9, 1933, elevation, 896.30 ft (273.192 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,640 acre-ft (55.0 hm³) May 7, elevation, 937.79 ft (285.838 m); minimum, 130 acre-ft (160,300 m³) Oct. 11, 24, Sept. 29 elevation, 897.31 ft (273.500 m).

03120000 LEESVILLE LAKE NEAR LEESVILLE.--Lat 40°28'15", long 81°11'40", in E 1/2 sec. 36, T.13 N., R.6 W., Carroll County, Hydrologic Unit 05040001, in gate house of dam on McGuire Creek, 1.4 mi (2.3 km) northeast of Leesville. DRAINAGE AREA, 48.3 mi² (125 km²). PERIOD OF RECORD, April 1938 to September 1983 (discontinued) Prior to October 1971 published as Leesville Reservoir. Month-end contents prior to September 1939, published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 928.0 ft (282.85 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Lake is formed by earthfill dam completed Oct. 22, 1937. Usable capacity 37,070 acre-ft (45.7 hm³) between elevations 928.0 ft (282.85 m) (lowest outlet), and 977.5 ft (297.94 m) (crest of spillway), of which 19,170 acre-ft (23.6 hm³) is in the conservation pool. Dead storage below elevation 928.0 ft (282.85 m), 329 acre-ft (406,000 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduit through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 26,430 acre-ft (32.6 hm³) Apr. 17, 1948, elevation, 969.59 ft (295.531 m); minimum, 41 acre-ft (50,600 m³) Oct. 9-25, 1939, elevation, 928.38 ft (282.970 m), but may have been less during period Sept. 18-24, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 24,620 acre-ft (30.4 hm³) May 6, elevation, 968.04 ft (295.059 m); minimum, 13,670 acre-ft (16.9 hm³) Feb. 14, 957.00 ft (291.694 m).

03121000 ATWOOD LAKE NEAR NEW CUMBERLAND.--Lat 40°31'34", long 81°17'09", in SE 1/4 sec, 28, T.15 N., R.7 W., Tuscarawas County, Hydrologic Unit 05040001, in gate house of dam on Indian Fork, 1.5 mi (2.4 km) southeast of New Cumberland. DRAINAGE AREA, 69.9 mi² (181 km²). PERIOD OF RECORD, June 1938 to September 1983 (discontinued). Prior to October 1971 published as Atwood Reservoir. Month end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 890.0 ft (271.27 m) National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Oct. 11, 1938, nonrecording gage at same site and datum.

Lake is formed by earthfill dam completed Sept. 23, 1937. Usable capacity 49,690 acre-ft (61.3 hm³) between elevations 890.0 ft (271.27 m) (lowest outlet), and 941.0 ft (286.82 m) (crest of spillway), of which 23,590 acre-ft (29.1 hm³) is in the conservation pool. Dead storage below elevation 890.0 ft (271.27 m), 8 acre-ft (9,860 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 35,210 acre-ft (43.4 hm³) Feb. 8, 1952, elevation, 934.51 ft (284.839 m); minimum, 2.2 acre-ft (2,710 m³) Jan. 8, 9, 1940, elevation, 890.36 ft (271.382 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 32,250 acre-ft (39.8 hm³) May 6, elevation, 932.98 ft (284.372 m); minimum, 15,990 acre-ft (19.7 hm³) Jan. 7, elevation, 922.50 ft (281.178 m).

03122000 DOVER LAKE NEAR DOVER.--Lat 40°33'29", long 81°24'46", in SW 1/4 sec. 6, T.9 N., R.1 W., Tuscarawas County, Hydrologic Unit 05040001, in gate house of dam on Tuscarawas River, 4.2 mi (6.8 km) northeast of Dover. DRAINAGE AREA, 1,404 mi² (3,636 km²). PERIOD OF RECORD, June 1938 to September 1983 (discontinued). Prior to October 1971 published as Dover Reservoir. Month end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 858.0 ft (261.52 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD. Prior to Sept. 22, 1938, nonrecording gage at same site and datum.

Lake is formed by concrete dam completed Nov. 29, 1937. Usable capacity 203,000 acre-ft (250 hm³) between elevations 862.0 ft (262.74 m) (lowest outlet), and 916.0 ft (279.20 m) (crest of spillway), of which 1,000 acre-ft (1.23 hm³) is in conservation pool. No dead storage. Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 109,000 acre-ft (134 hm³) July 12, 1969, elevation, 905.00 ft (275.844 m); no contents several days during most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 11,600 acre-ft (14.3 hm³) May 5, elevation, 884.00 ft (269.443 m); no contents many days in Oct., Nov., Aug., and Sept.

03123500 BEACH CITY LAKE NEAR BEACH CITY.--Lat 40°38'06", long 81°33'30", in T.10 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, in gate house of dam on Sugar Creek, 1.6 mi (2.6 km) southeast of Beach City. DRAINAGE AREA, 300 mi² (777 km²). PERIOD OF RECORD, June 1938 to September 1983 (discontinued). Prior to October 1971 published as Beach City Reservoir. Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 931.0 ft (283.77 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD. Prior to Feb. 4, 1939, nonrecording gage at same site and datum.

Lake is formed by earthfill dam completed Aug. 13, 1937. Usable capacity 71,650 acre-ft (88.3 hm³) between elevations 931.0 ft (283.77 m) (lowest outlet), and 976.5 ft (297.64 m) (crest of spillway), of which 1,700 acre-ft (2.10 hm³) is in conservation pool. No dead storage. Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 70,120 acre-ft (86.5 hm³) July 6, 1969, elevation, 976.25 ft (297.561 m); minimum, 1.1 acre-ft (1,360 m³) several days in September and October 1939, elevation, 931.60 ft (283.952 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 22,710 acre-ft (28.0 hm³) May 4, 5, elevation, 964.67 ft (294.031 m); minimum, 1,860 acre-ft (2.29 hm³) Oct. 6,7,8,15-20,21, Aug. 27,28,29, Sept. 12,15,16, elevation, 948.34 ft (289.054 m).

RESERVOIRS IN MUSKINGUM RIVER BASIN, OH--Continued

03125500 PIEDMONT LAKE AT PIEDMONT.--Lat 40°11'31", long 81°12'57", in SE 1/4 sec. 35, T.10 N., R.6 W., Harrison County, Hydrologic Unit 05040001, in gate house of dam on Stillwater Creek, 0.4 mi (0.6 km) west of Piedmont. DRAINAGE AREA, 85.9 mi^2 (222 km^2). PERIOD OF RECORD, May 1938 to September 1983 (discontinued). Prior to October 1971 published as Piedmont Reservoir. Month-end contents prior to September 1939 published in WSP 1305 GAGE, water-stage recorder. Datum of gage is 881.75 ft (268.757 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Lake is formed by earthfill dam completed May 22, 1937. Usable capacity 64,990 acre-ft (80.1 hm^3) between elevations 881.75 ft (lowest outlet), and 924.6 ft (281.82 m) (crest of spillway), of which 33,500 acre-ft (41.3 hm^3) is in the conservation pool. Dead storage below elevation 881.75 ft (268.757 m), 71 acre-ft (87,500 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 55,660 acre-ft (68.6 hm^3) Aug. 25, 1980 elevation, 921.55 ft (280.888 m); minimum, 26 acre-ft (32,100 m^3) Sept. 18-25, 1939, elevation, 882.25 ft (268.910 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 42,270 acre-ft (52.1 hm^3) Apr. 18, elevation, 916.64 ft (279.392 m); minimum, 22,280 acre-ft (27.5 hm^3) Jan. 20,21, elevation, 907.55 ft (276.621 m).

03126500 CLENDENING LAKE NEAR TIPPECANOE.--Lat 40°16'10", long 81°16'43", in NW 1/4 sec. 16, T.12 N., R.7 W., Harrison County, Hydrologic Unit 05040001, in gate house of dam on Brushy Fork, 0.6 mi (1.0 km) east of Tippecanoe. DRAINAGE AREA, 69.3 mi^2 (179 km^2). PERIOD OF RECORD, June 1938 to September 1983 (discontinued). Prior to October 1971 published as Clendening Reservoir. Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 862.00 ft (262.738 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD. Prior to July 11, 1938, nonrecording gage at same site and datum.

Lake is formed by earthfill dam completed Nov. 1, 1937. Usable capacity 53,970 acre-ft (66.5 hm^3) between elevations 862.0 ft (262.74 m) (lowest outlet), and 910.5 ft (277.52 m) (crest of spillway), of which 26,470 acre-ft (32.6 hm^3) is in the conservation pool. Dead storage below elevation 862.0 ft (262.74 m) 27 acre-ft (33,300 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 50,050 acre-ft (61.7 hm^3) Aug. 23, 1980, elevation, 908.99 ft (277.060 m); minimum, 5.9 acre-ft (7,270 m^3) Nov. 4, 1938, elevation, 862.33 ft (262.838 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 35,330 acre-ft (43.6 hm^3) May 25,26, elevation, 902.55 ft (275.097 m); minimum, 18,490 acre-ft (22.8 hm^3) Jan. 19,20, elevation, 893.01 ft (272.189 m).

03128000 TAPPAN LAKE NEAR TAPPAN.--Lat 40°21'24", long 81°13'38", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, Hydrologic Unit 05040001, in gate house of dam on Little Stillwater Creek, 0.9 mi (1.4 km) west of Tappan. DRAINAGE AREA.--71.1 mi^2 (184 km^2). PERIOD OF RECORD, May 1938 to September 1983 (discontinued). Prior to October 1971 published as Tappan Reservoir. Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 870.0 ft (265.18 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Lake is formed by earthfill dam completed Oct. 24, 1936. Usable capacity 61,500 acre-ft (75.8 hm^3) between elevations 870.0 ft (265.18 m) (lowest outlet), and 909.0 ft (277.06 m) (crest of spillway), of which 35,070 acre-ft (43.2 hm^3) is in conservation pool. Dead storage below elevation 870.0 ft (265.18 m), 46 acre-ft (56,700 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 51,290 acre-ft (63.2 hm^3) Aug. 23, 1980, elevation, 905.55 ft (276.012 m); no contents Sept. 29, 1939.

EXTREMES FOR CURRENT YEAR: Maximum contents, 41,180 acre-ft (50.8 hm^3) May 6, elevation, 901.78 ft (274.863 m); minimum, 24,070 acre-ft (29.7 hm^3) Jan. 7, elevation, 894.21 ft (272.555 m).

03129500 CHARLES MILL LAKE NEAR MIFFLIN.--Lat 40°44'26", long 82°21'47", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, Hydrologic Unit 05040002, in gate house of dam on Black Fork, 2.5 mi (4.0 km) south of Mifflin. DRAINAGE AREA, 215 mi^2 (557 km^2). PERIOD OF RECORD, April 1938 to September 1983 (discontinued). Prior to October 1971 published as Charles Mill Reservoir. Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 987.0 ft (300.84 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Lake is formed by earthfill dam completed Aug. 17, 1936. Usable capacity 87,690 acre-ft (108 hm^3) between elevations 987.0 ft (300.84 m) (lowest outlet), and 1,020.0 ft (310.90 m) (crest of spillway), of which 7,090 acre-ft (8.74 hm^3) is in the conservation pool. Dead storage below elevation 987.0 ft (300.84 m), 310 acre-ft (382,000 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam or through bypass gate around conservation weir. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 53,480 acre-ft (65.9 hm^3) Jan. 25, 1959, elevation, 1,013.53 ft (308.924 m); minimum, 733 acre-ft (904,000 m^3) Dec. 24, 1965, elevation, 989.89 ft (301.718 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 19,440 acre-ft (24.0 hm^3) May 7, elevation, 1,003.78 ft (305.952 m); minimum, 4,680 acre-ft (5.77 hm^3) Mar. 14, elevation, 995.08 ft (303.300 m).

RESERVOIRS IN MUSKINGUM RIVER BASIN, OH--Continued

03133000 PLEASANT HILL LAKE NEAR PERRYSVILLE.--Lat 40°37'26", long 82°19'33", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, in gate house of dam on Clear Fork, 2.5 mi (4.0 km) south of Perrysville. DRAINAGE AREA, 197 mi^2 (510 km^2). PERIOD OF RECORD, May 1938 to September 1983 (discontinued). Prior to October 1971 published as Pleasant Hill Reservoir. Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 971.75 ft (296.189 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Lake is formed by earthfill dam completed Feb. 1, 1938. Usable capacity 87,640 acre-ft (108 hm^3) between elevations 971.75 ft (296.189 m) (lowest outlet), and 1,065.0 ft (324.61 m) (crest of spillway), of which 13,510 acre-ft (16.7 hm^3) is in the conservation pool. Dead storage below elevation 971.75 ft (296.189 m), 12 acre-ft (14,800 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 43,530 acre-ft (53.7 hm^3) Jan. 23, 1959, elevation, 1,044.01 ft (318.214 m); minimum, 74 acre-ft (91,200 m^3) May 8, 1938, elevation, 976.63 ft (297.677 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 21,130 acre-ft (26.1 hm^3) May 4,5, elevation, 1,027.88 ft (313.298 m); minimum, 8,990 acre-ft (11.1 hm^3) Jan. 20, elevation, 1,013.97 ft (309.058 m).

03134500 MOHICANVILLE RESERVOIR NEAR MOHICANVILLE.--Lat 40°43'28", long 82°09'08", in SE 1/4 sec. 34, T.21 N., R.15 W., Ashland County, Hydrologic Unit 05040002, in gate house of dam on Lake Fork, 2 mi (3 km) east of Mohicanville. DRAINAGE AREA, 271 mi^2 (702 km^2). PERIOD OF RECORD, May 1938 to September 1983 (discontinued). Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 932.0 ft (284.07 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Reservoir is formed by earthfill dam completed Dec. 24, 1936. Usable capacity 102,000 acre-ft (126 hm^3) between elevations 932.0 ft (284.07 m) (lowest outlet), and 963.0 ft (293.52 m) (crest of spillway). Dead storage below elevation 932.0 ft (284.07 m), 18 acre-ft (22,200 m^3). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 96,330 acre-ft (119 hm^3) July 7, 1969, elevation, 962.35 ft (293.324 m); minimum, 9.9 acre-ft (12,200 m^3) several days in 1941, 1944, 1945; minimum elevation, 932.38 ft (284.189 m) several days in August, September, October, 1941.

EXTREMES FOR CURRENT YEAR: Maximum contents. 11,790 acre-ft (14.5 hm^3) May 5,6, elevation, 947.52 ft (288.804 m); minimum, 31 acre-ft (38,220 m^3) Sept. 30, elevation, 933.14 ft (284.421 m).

03136300 NORTH BRANCH KOKOSING RIVER LAKE NEAR FREDERICKTOWN.--Lat 40°30'24", long 82°34'36", in SW 1/4 sec. 19, T.8 N., R.14 W., Knox County, Hydrologic Unit 05040003, at dam on North Branch Kokosing River, 2.5 mi (4.0 km) northwest of Fredericktown, and 3.0 mi (4.8 km) upstream from East Branch Kokosing River. DRAINAGE AREA, 44.5 mi^2 (115 km^2). PERIOD OF RECORD, July 1973 to September 1983 (discontinued). GAGE, Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake is formed by earthfill dam, with uncontrolled saddle spillway; storage began June 1972. Usable capacity, 940 acre-ft (1.16 hm^3) between elevation, 1,108.0 ft (337.72 m) (invert of lowest outlet) and 1,121.0 ft (341.68 m) (uncontrolled entrance to outlet works). Dead storage below elevation 1,108.0 ft (337.72 m), 103 acre-ft (127,000 m^3). Additional flood retention capacity 13,840 acre-ft (17.1 hm^3) between 1,121.0 ft (341.68 m) and 1,146.0 ft (349.30 m) (crest of spillway). Figures given herein represent usable contents. Reservoir is used for flood control, recreation, and conservation. Lowest outlet is normally closed to maintain a pool elevation of 1,121.0 ft (341.68 m). Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 5,620 acre-ft (6.93 hm^3) Feb. 24, 1975; elevation, 1,134.98 ft (345.942 m); minimum, 761 acre-ft (0.94 hm^3) Mar. 28, 1978, elevation, 1,119.72 ft (341.291 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,160 Acre-ft (2.66 hm^3) May 2, elevation, 1,126.59 ft (343.385 m); minimum, 831 acre-ft (1.02 hm^3) June 29, elevation, 1,120.24 ft (341.449 m).

03138000 MOHAWK RESERVOIR NEAR NELLIE.--Lat 40°21'12", long 82°05'12", in SW 1/4 sec. 6, T.6 N., R.8 W., Coshocton County, Hydrologic Unit 05040003, in gate house of dam on Walhonding River, 1.5 mi (2.4 km) northwest of Nellie. DRAINAGE AREA, 1,504 mi^2 (3,895 km^2). PERIOD OF RECORD, April 1938 to September 1983 (discontinued).Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 799.2 ft (243.60 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Reservoir is formed by earthfill dam completed Sept. 22, 1937. Usable capacity 284,900 acre-ft (351 hm^3) between elevations 799.2 ft (243.60 m) (lowest outlet) and 890.0 ft (271.27 m) (crest of spillway). Dead storage below elevation 799.2 ft (243.60 m), 59 acre-ft (72,700 m^3). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in tunnels through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 176,000 acre-ft (217 hm^3) Jan. 25, 1959, elevation, 873.94 ft (266.377 m); minimum, 44 acre-ft (54,300 m^3) Sept. 21, Oct. 4, 1955; minimum elevation, 800.35 ft (243.947 m) Oct. 4, 1955, from graph based on gage readings.

EXTREMES FOR CURRENT YEAR. Maximum contents, 58,550 acre-ft (72.2 hm^3) May 5, elevation, 848.43 ft (258.601 m); minimum, 77 acre-ft (99,940 m^3) Sept. 16, elevation, 801.07 ft (244.166 m).

RESERVOIRS IN MUSKINGUM RIVER BASIN, OH--Continued

03141000 SENECAVILLE LAKE NEAR SENECAVILLE.--Lat 39°55'31", long 81°26'06", Guernsey County, Hydrologic Unit 05040005, in gate house of dam on Seneca Fork, 1.5 mi (2.4 km) southeast of Senecaville. DRAINAGE AREA, 118 mi² (306 km²). PERIOD OF RECORD, June 1938 to September 1983 (discontinued). Prior to October 1971 published as Senecaville Reservoir. Month-end contents prior to September 1939 published in WSP 1305. REVISED RECORDS, WRD OH-79-1: 1978 (change-in-contents). GAGE, water-stage recorder. Datum of gage is 812.05 ft (247.513 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Sept. 21, 1938, nonrecording gage at same site and datum.

Lake is formed by earthfill dam completed May 14, 1937. Usable capacity 86,340 acre-ft (106 hm³) between elevations 812.05 ft (247.513 m) (lowest outlet), and 842.5 ft (256.79 m) (top of taintor gates), of which 41,300 acre-ft (50.9 hm³) is in conservation pool. Usable capacity at elevation 831.0 ft (253.29 m) (crest of spillway), 37,180 acre-ft (45.8 hm³). Dead storage below elevation 812.05 ft (247.513 m), 1,950 acre-ft (2.40 hm). Figures given herein represent usable contents. Taintor gates normally remain closed to maintain conservation pool at elevation 832.2 ft (253.75 m) and outflow is controlled by gates in conduits through dam. Lake is used for flood control and conservation. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 65,530 acre-ft (80.8 hm³) Aug. 15, 16, 1980, elevation, 838.20 ft (255.483 m); minimum, 360 acre-ft (444,000 m³) Oct. 22, 23, 1939, elevation, 812.53 ft (247.659 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 57,180 acre-ft (70.5 hm³) Apr. 18, elevation, 836.27 ft (254.895 m); minimum, 19,240 acre-ft (23.7 hm³) Dec. 9,10,11, elevation, 824.65 ft (251.353 m).

03142290 SALT FORK LAKE NEAR CAMBRIDGE.--Lat 40°06'15", long 81°33'15", in T.3 N., R.3 W., Guernsey County, Hydrologic Unit 05040005, at outlet works near left end of dam on Salt Fork, 0.8 mi (1.3 km) upstream from mouth, 5.0 mi (8.0 km) north of Cambridge, and 3.5 mi (5.6 km) south of Kimbolton. DRAINAGE AREA, 159 mi² (412 km²). PERIOD OF RECORD, September 1968 to September 1983 (discontinued). GAGE, water-stage recorder. Datum of gage is 700.00 ft (213.360 m) National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

Reservoir is formed by earthfill dam with concrete morning-glory spillway and emergency spillway cut in natural rock; storage began Dec. 30, 1967. Usable capacity, 41,950 acre-ft (51.7 hm³) between elevations 772.5 ft (235.46 m) (invert of lowest outlet) and 800.0 ft (243.84 m) (crest of morning-glory spillway). Dead storage below elevation 772.5 ft (235.46 m), 1,250 acre-ft (1.54 hm³). Additional flood-retention capacity, 28,600 acre-ft (35.3 hm³) between elevations 800.0 ft (243.84 m) and 808.0 ft (246.28 m) (crest of emergency spillway). Figures given herein represent usable contents. There are no gates on spillway and all regulation is done by conduits through dam. Reservoir is used for recreation, flood control, and future municipal supply. Capacity curve furnished by State Department of Natural Resources.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 72,570 acre-ft (89.5 hm³) Aug. 13, 1980, elevation, 808.48 ft (246.425 m); minimum, 12,200 acre-ft (15.0 hm³) Oct. 17, 1968, elevation, 786.53 ft (239.734 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 61,030 acre-ft (75.2 hm³) Apr. 11, elevation, 805.60 ft (245.547 m); minimum, 41,230 acre-ft (50.8 hm³) Oct. 28, 29, 30, elevation, 799.76 ft (243.767 m).

03143000 WILLS CREEK LAKE NEAR WILLS CREEK.--Lat 40°09'25", long 81°51'00", in SE 1/4 sec. 23, T.4 N., R.6 W., Coshocton County, Hydrologic Unit 05040005, in gate house of dam on Wills Creek, 1.3 mi (2.1 km) south of village of Wills Creek, and 4.0 mi (6.4 km) southwest of Conesville. DRAINAGE AREA, 842 mi² (2,181 km²). PERIOD OF RECORD, April 1938 to September 1983 (discontinued). Prior to October 1971 published as Wills Creek Reservoir. Month-end contents prior to September 1939 published in WSP 1305. GAGE, water-stage recorder. Datum of gage is 733.0 ft (223.42 m) National Geodetic Vertical Datum of 1912; gage readings have been reduced to elevations NGVD.

Lake is formed by earthfill dam completed Oct. 13, 1937. Usable capacity, 194,400 acre-ft (240 hm³) between elevations 733.0 ft (223.42 m) (lowest outlet), and 779.0 ft (237.44 m) (crest of spillway), of which 4,420 acre-ft (5.45 hm³) is in conservation pool. Dead storage below elevation 733.0 ft (223.42 m), 1,580 acre-ft (1.95 hm³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 169,700 acre-ft (209 hm³) Mar. 15, 1964, elevation, 776.73 ft (236.747 m); minimum, 300 acre-ft (370,000 m³) Oct. 22, 23, 1939, elevation, 734.10 ft (223.754 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 69,500 acre-ft (85.7 hm³) Apr. 18, elevation, 763.87 ft (232.828 m); minimum, 3,840 acre-ft (4.73 hm³) Sept. 10, 11, elevation, 741.31 ft (225.951 m).

03147300 DILLON LAKE NEAR DILLON FALLS.--Lat 39°59'32", long 82°04'57", in T.1 N., R.8 W., Muskingum County, Hydrologic Unit 05040006, in outlet works of control tower at dam on Licking River, 2 mi (3 km) northwest of Dillon Falls, and 5.8 mi (9.3 km) upstream from mouth at Zanesville. DRAINAGE AREA, 742 mi² (1,922 km²). PERIOD OF RECORD, January 1961 to September 1983 (discontinued). Prior to October 1971 published as Dillon Reservoir. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

Lake formed by earth dam with concrete spillway; closure of dam made July 29, 1959; storage to maintain conservation pool began Dec. 17, 1960. Usable capacity 274,000 acre-ft (338 hm³) between elevations 704.0 ft (214.58 m) (lowest outlet) and 790.0 ft (240.79 m) (crest of spillway) of which 13,170 acre-ft (16.2 hm³) is in conservation pool. Dead storage below elevation 704.0 ft (214.58 m), 30 acre-ft (37,000 m³). Figures given herein represent usable contents. Lake is used primarily for flood control. There are no gates on spillway and all regulation is done by gates in conduits through abutment of dam. Capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 142,600 acre-ft (176 hm³) Mar. 13, 1964, elevation, 772.88 ft (235.574 m); minimum observed, 208 acre-ft (256,000 m³) Mar. 31, 1961, elevation, 710.94 ft (216.694 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 87,210 acre-ft (108 hm³) May 5, elevation, 760.95 ft (231.938 m); minimum, 12,970 acre-ft (16.0 hm³) Feb. 6, elevation, 733.88 ft (223.687 m).

RESERVOIRS IN MUSKINGUM RIVER BASIN, OH--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)
	03119500	BOLIVAR RESERVOIR		03120000	LEESVILLE LAKE		03121000	ATWOOD LAKE	
Sept. 30.....	897.68	160	--	962.65	18,820	--	971.71	23,160	--
Oct. 31.....	897.71	163	+3	962.47	18,640	-180	927.51	22,860	-300
Nov. 30.....	902.89	963	+800	960.94	17,170	-1,470	926.79	21,780	-1,080
Dec. 31.....	901.83	736	-227	958.74	15,190	-1,980	923.43	17,150	-4,630
CAL YR 1982 --		--	+390	--	--	+1,350	--	--	+1,060
Jan. 31.....	901.19	614	-122	957.25	13,880	-1,310	922.59	16,100	-1,050
Feb. 28.....	899.15	310	-304	958.34	14,830	+950	923.66	17,450	+1,350
Mar. 31.....	901.63	698	+388	963.07	19,240	+4,410	928.10	23,750	+6,300
Apr. 30.....	904.61	1,420	+722	964.64	20,840	+1,600	928.35	24,150	+400
May 31.....	900.97	573	-847	963.06	19,230	-1,610	928.18	23,880	-270
June 30.....	899.50	356	-217	962.83	19,000	-230	927.80	23,290	-590
July 31.....	899.97	416	+60	962.72	18,890	-110	927.76	23,230	-60
Aug. 31.....	898.10	196	-220	962.59	18,760	-130	927.63	23,040	-190
Sept. 30.....	897.38	136	-60	962.63	18,800	+40	927.73	23,190	+150
WTR YR 1983 --		--	-24	--	--	-20	--	--	+30
	03122000	DOVER LAKE		03123500	BEACH CITY LAKE		03125500	PIEDMONT LAKE	
Sept. 30.....	865.05	0.2	--	948.42	1,890	--	912.84	33,150	--
Oct. 31.....	864.80	0	-0.2	948.38	1,870	-20	912.69	32,810	-340
Nov. 30.....	871.92	449	+449	949.86	2,620	+750	910.91	28,890	-3,920
Dec. 31.....	869.40	139	-310	949.87	2,630	+10	909.02	25,070	-3,820
CAL YR 1982 --		--	+88	--	--	+450	--	--	+1,810
Jan. 31.....	868.34	80	-59	949.72	2,550	-80	908.20	23,490	-1,580
Feb. 28.....	866.43	14	-66	948.93	2,130	-420	909.24	25,510	+2,020
Mar. 31.....	869.09	116	+102	949.95	2,670	+540	912.49	32,370	+6,860
Apr. 30.....	871.88	442	+326	950.21	2,830	+160	914.21	36,300	+3,930
May 31.....	868.65	94	-348	949.44	2,400	-430	914.76	37,590	+1,290
June 30.....	866.82	23	-71	949.03	2,180	-220	912.94	33,370	-4,220
July 31.....	865.63	3.2	-19.8	948.58	1,970	-210	912.80	33,060	-310
Aug. 31.....	865.49	2.4	-0.8	948.42	1,890	-80	912.47	32,320	-740
Sept. 30.....	865.00	0	-2.4	948.36	1,870	-20	912.45	32,280	-40
WTR YR 1983 --		--	-0.2	--	--	-20	--	--	-870
	03126500	CLENDENING LAKE		03128000	TAPPAN LAKE		03129500	CHARLES MILL LAKE	
Sept. 30.....	897.56	25,720	--	898.56	33,340	--	997.14	7,290	--
Oct. 30.....	897.40	25,450	-270	898.39	32,950	-390	997.09	7,220	-70
Nov. 30.....	895.59	22,420	-3,030	894.90	25,450	-7,500	998.32	8,970	+1,750
Dec. 31.....	893.52	19,200	-3,220	894.75	25,150	-300	998.97	9,940	+970
CAL YR 1982 --		--	+520	--	--	+240	--	--	+2,390
Jan. 31.....	893.15	18,680	-520	894.39	24,430	-720	995.25	4,880	-5,060
Feb. 28.....	894.02	19,900	+1,220	894.99	25,630	+1,200	996.41	6,320	+1,440
Mar. 31.....	897.95	26,390	+6,490	898.41	33,000	+7,370	997.51	7,800	+1,480
Apr. 30.....	898.43	27,290	+900	899.67	35,960	+2,960	997.43	7,690	-110
May 31.....	900.81	31,810	+4,520	899.67	35,960	0	997.25	7,440	-250
June 30.....	897.93	26,350	-5,460	899.29	35,050	-910	997.42	7,680	+240
July 31.....	897.74	26,030	-320	899.02	34,400	-650	997.06	7,170	-510
Aug. 31.....	897.58	25,760	-270	898.80	33,890	-510	997.07	7,190	+20
Sept. 30.....	897.64	25,860	+100	898.68	33,620	-270	997.15	7,300	+110
WTR YR 1983 --		--	+140	--	--	+280	--	--	+10
	03133000	PLEASANT HILL LAKE		03134500	MOHICANVILLE RESERVOIR		03136300	KOKOSING RIVER LAKE	
Sept. 30...	1,019.23	12,880	--	933.44	43	--	1,121.10	956	--
Oct. 31....	1,018.98	12,670	-210	933.79	57	+14	1,121.05	948	-8
Nov. 30...	1,020.00	13,510	+840	938.46	409	+352	1,122.11	1,130	+182
Dec. 31....	1,019.29	12,930	-580	937.03	268	-141	1,121.85	1,080	-50
CAL YR 1982 --		--	+4,830	--	--	+161	--	--	+40
Jan. 31....	1,014.48	9,330	-3,600	934.45	90	-178	1,121.77	1,070	-10
Feb. 28....	1,017.81	11,740	+2,410	934.50	92	+2	1,121.43	1,010	-60
Mar. 31...	1,019.96	13,480	+1,740	934.98	119	+27	1,121.59	1,040	+30
Apr. 30....	1,020.34	13,820	+340	938.40	402	+283	1,123.47	1,390	+350
May 31...	1,020.13	13,630	-190	934.32	83	-319	1,121.57	1,030	-360
June 30....	1,019.62	13,200	-430	935.62	162	+79	1,120.56	877	-153
July 31...	1,019.42	13,030	-170	933.45	44	-118	1,121.07	952	+75
Aug. 31....	1,019.04	12,720	-310	933.72	54	+10	1,121.03	945	-7
Sept. 30...	1,018.57	12,340	-380	933.14	31	-23	1,121.08	953	+8
WTR YR 1983 ---		--	-540	--	--	-12	--	--	-3

RESERVOIRS IN MUSKINGUM RIVER BASIN, OH--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)
	03138000	MOHAWK RESERVOIR		03141000	SENECAVILLE LAKE		03142290	SALT FORK RESERVOIR	
Sept. 30.....	801.50	101	--	832.26	41,510	--	800.03	42,040	--
Oct. 31.....	801.09	78	-23	831.98	40,510	-1,000	799.82	41,410	-630
Nov. 30....	810.55	1,170	+1,092	824.95	20,020	-20,490	800.82	44,490	+3,080
Dec. 31.....	815.54	2,700	+1,530	830.34	35,010	+14,990	802.10	48,590	+4,100
CAL YR 1982	--	--	+2,272	-	--	+12,100	--	--	+2,840
Jan. 31.....	808.34	785	-1,915	828.24	28,600	-6,410	800.95	44,900	-3,690
Feb. 28.....	803.38	228	-557	829.47	32,260	+3,660	800.91	44,770	-130
Mar. 31.....	805.50	426	+198	832.34	41,800	+9,540	801.60	46,970	+2,200
Apr. 30.....	807.94	726	+300	833.15	44,740	+2,940	802.10	48,590	+1,620
May 31.....	805.34	409	-317	832.22	41,370	-3,370	802.04	48,390	-200
June 30.....	802.67	175	-234	832.31	41,690	+320	800.73	44,210	-4,180
July 31.....	801.77	116	-59	832.10	40,940	-750	800.84	44,550	+340
Aug. 31.....	801.50	101	-15	831.73	39,660	-1,280	800.14	42,380	-2,170
Sept. 30.....	801.22	85	-16	831.45	38,710	-950	800.08	42,200	-180
WTR YR 1983	--	--	-16	--	--	-2,800	--	--	+160
	03143000	WILLS CREEK LAKE		03147300	DILLON LAKE				
Sept. 30.....	741.62	4,100	--	737.18	17,750	--			
Oct. 31.....	741.41	3,920	-180	737.15	17,700	-50			
Nov. 30.....	744.30	6,960	+3,040	737.69	18,560	+860			
Dec. 31.....	745.10	8,040	+1,080	736.68	16,970	-1,590			
CAL YR 1982	--	--	+2,580	--	--	+3,700			
Jan. 31.....	743.29	5,740	-2,300	734.54	13,860	-3,110			
Feb. 28.....	742.76	5,160	-580	734.11	13,270	-590			
Mar. 31.....	744.24	6,880	+1,720	734.31	13,540	+270			
Apr. 30.....	745.23	8,240	+1,360	738.16	19,330	+5,790			
May 31.....	745.06	7,980	-260	737.23	17,830	-1,500			
June 30.....	742.28	4,690	-3,290	737.41	18,120	+290			
July 31.....	742.46	4,870	+180	737.13	17,670	-450			
Aug. 31.....	741.49	3,990	-880	737.14	17,680	+10			
Sept. 30.....	741.41	3,920	-70	736.77	17,110	-570			
WTR YR 1983	--	--	-180	--	--	-640			

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 (122 m) downstream from unnamed right bank tributary, 2.0 mi (3.2 km) upstream from mouth, and 3 mi (5 km) west of Rockbridge.

DRAINAGE AREA.--89.0 mi^2 (231 km^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 (231.688 m) National Geodetic Vertical Datum of 1929. Prior to May 2, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--44 years, 89.1 ft^3/s (2.523 m^3/s), 13.60 in/yr (345 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s (453 m^3/s) July 22, 1948, gage height, 17.68 ft (5.389 m) (from high-water mark in well), from rating curve extended above 4,300 ft^3/s (122 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.0 ft^3/s (0.085 m^3/s) Dec. 29, 1947, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,900 ft^3/s (53.8 m^3/s) and maximums (*);

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	2045	3,180	90.1	10.09	3.075
May 22	1900	*4,650	132	*11.82	3.603

Minimum discharge, 11 ft^3/s (0.31 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	23	65	100	81	49	34	515	76	175	27	17
2	19	20	56	89	241	46	45	1030	69	71	27	15
3	17	24	51	80	224	44	110	1990	76	52	22	14
4	18	31	47	70	135	44	83	1040	100	51	22	14
5	18	27	54	67	102	43	67	456	76	65	22	14
6	18	24	87	66	94	44	77	300	70	54	25	14
7	19	19	61	64	91	46	103	226	65	52	21	12
8	23	17	49	57	79	43	563	184	60	52	20	12
9	27	17	45	54	74	44	538	148	56	49	19	12
10	31	16	41	59	73	39	389	130	52	43	18	12
11	27	19	45	79	73	43	250	116	49	40	21	12
12	24	21	40	67	65	40	194	105	46	38	22	13
13	24	21	37	59	62	41	164	97	45	37	18	12
14	23	20	36	56	65	40	260	94	43	33	17	12
15	24	20	73	59	66	38	579	116	40	79	17	13
16	24	19	333	49	81	36	249	132	39	70	17	15
17	21	18	145	50	97	36	181	103	47	105	17	16
18	21	18	102	145	81	37	145	91	108	188	18	14
19	22	20	378	148	74	43	122	121	61	159	17	14
20	22	27	289	140	67	40	107	127	57	66	16	14
21	23	46	160	121	64	40	94	107	46	44	15	20
22	21	100	115	124	61	37	87	1700	40	39	16	16
23	21	60	318	160	61	33	83	1500	35	38	29	14
24	21	69	310	107	57	33	83	450	33	94	18	14
25	23	45	245	87	55	33	74	230	33	50	16	14
26	21	37	429	73	50	33	67	170	30	37	15	13
27	21	39	412	65	47	34	65	130	29	32	15	13
28	21	137	367	60	49	36	64	110	29	28	17	13
29	21	148	214	57	---	35	67	105	32	27	18	14
30	22	83	147	94	---	33	243	100	133	26	15	14
31	24	---	118	107	---	33	---	86	---	27	15	---
TOTAL	679	1185	4869	2613	2369	1216	5187	11809	1675	1921	592	416
MEAN	21.9	39.5	157	84.3	84.6	39.2	173	381	55.8	62.0	19.1	13.9
MAX	31	148	429	160	241	49	579	1990	133	188	29	20
MIN	17	16	36	49	47	33	34	86	29	26	15	12
CFSM	.25	.44	1.76	.95	.95	.44	1.94	4.28	.63	.70	.22	.16
IN.	.28	.50	2.04	1.09	.99	.51	2.17	4.94	.70	.80	.25	.17

CAL YR 1982 TOTAL 27642 MEAN 75.7 MAX 1120 MIN 13 CFSM .85 IN 11.55
WTR YR 1983 TOTAL 34531 MEAN 94.6 MAX 1990 MIN 12 CFSM 1.06 IN 14.43

03157500 HOCKING RIVER AT ENTERPRISE, OH

LOCATION.--Lat 39°33'54", long 82°28'30", in NW 1/4 sec. 5,T.14 N., R.17 W., Hocking County, Hydrologic Unit 05030204 , at right bank at upstream side of bridge at Enterprise, 4.0 mi (6.4 km) downstream from Buck Run, and 4.3 mi (6.9 km) upstream from Scott Creek.

DRAINAGE AREA.--459 mi² (1,189 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305

REVISED RECORDS.--WSP 873: 1938. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 723.58 ft (220.547 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 24, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³) constructed between 1955 and 1961 upstream from station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--53 years, 460 ft³ /s (13.03 m³/s), 13.61 in/yr (346 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,000 ft³/s (736 m³/s) Mar. 10, 1964, gage height, 21.31 ft (6.495 m), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of contracted-opening and slope-area measurement of peak flow; minimum daily, 23 ft³/s (0.65 m³/s) Aug. 12, 13, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1907, reached a stage of 22.0 ft (6.71 m), from floodmark, discharge, 36,000 ft³/s (1,020 m³/s), from reports of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,500 ft³/s (99.1 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 9	0230	4520	129	10.67	3.252	May 4	0230	*8730	247	*14.91	4.595
Apr. 15	1230	3940	112	9.69	2.954	May 23	0200	7570	214	13.99	4.264

Minimum daily discharge, 55 ft³/s (1.56 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	82	460	605	440	264	199	2320	410	631	111	81
2	78	84	401	508	1040	255	204	4080	373	259	106	76
3	72	88	359	433	2020	241	525	6760	365	188	103	72
4	72	114	322	359	1250	231	491	7610	550	193	100	70
5	71	137	296	326	763	224	394	4040	427	257	101	71
6	67	120	561	317	609	221	402	1990	353	197	101	82
7	69	94	469	307	569	221	551	1420	320	156	97	69
8	86	86	376	280	494	218	1950	1120	293	143	92	66
9	91	81	289	257	429	216	4250	876	265	136	90	64
10	138	90	245	260	418	209	3770	706	244	130	85	62
11	103	87	270	373	406	221	2170	600	227	123	91	61
12	89	89	259	355	375	232	1600	529	213	119	96	62
13	81	105	216	295	350	231	1280	476	203	115	87	77
14	83	95	198	273	345	230	1230	682	195	110	81	69
15	81	90	240	271	356	219	3440	1060	185	118	78	65
16	77	84	1570	238	402	203	2060	1320	177	177	78	68
17	71	75	1060	232	540	195	1260	961	572	195	76	105
18	68	79	662	188	514	199	916	788	855	683	78	105
19	69	80	1230	368	447	227	741	786	516	826	77	74
20	70	95	1980	368	400	247	612	898	605	296	75	68
21	72	178	1060	333	363	239	519	657	367	194	71	98
22	70	507	727	282	343	234	457	3210	277	163	69	96
23	69	525	1240	339	333	213	404	6210	229	220	121	79
24	68	403	1950	429	321	202	398	2490	201	566	125	66
25	69	337	1230	413	311	197	372	1460	183	273	86	62
26	70	262	2350	360	288	191	326	1070	169	182	76	62
27	70	265	1970	323	267	196	300	760	159	153	73	61
28	70	486	2270	296	265	219	282	603	156	139	87	60
29	70	1330	1370	283	---	232	315	583	173	128	117	57
30	75	692	931	359	---	203	1110	583	206	120	105	55
31	81	---	728	589	---	194	---	473	---	113	85	---
TOTAL	2401	6840	27289	10619	14658	6824	32528	57121	9468	7303	2818	2163
MEAN	77.5	228	880	343	524	220	1084	1843	316	236	90.9	72.1
MAX	138	1330	2350	605	2020	264	4250	7610	855	826	125	105
MIN	67	75	198	188	265	191	199	473	156	110	69	55
CFSM	.17	.50	1.92	.75	1.14	.48	2.36	4.02	.69	.51	.20	.16
IN.	.19	.55	2.21	.86	1.19	.55	2.64	4.63	.77	.59	.23	.18

CAL YR 1982 TOTAL 149591 MEAN 410 MAX 3860 MIN 63 CFSM .89 IN 12.12
WTR YR 1983 TOTAL 180032 MEAN 493 MAX 7610 MIN 55 CFSM 1.07 IN 14.59

03158500 BURR OAK RESERVOIR AT BURR OAK, OH

LOCATION.--Lat 39°32'30", long 82°03'27", near center of sec. 6, T.11 N., R.14 W., Athens County, Hydrologic Unit 05030204, in control house of Tom Jenkins Dam on East Branch Sunday Creek, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Burr Oak, and 3.0 mi (4.8 km) northeast of Glouster.

DRAINAGE AREA.--33.1 mi^2 (85.7 km^2).

PERIOD OF RECORD.--February 1952 to September 1983 (discontinued). Published as Tom Jenkins Reservoir at Burr Oak October 1952 to September 1962.

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

REMARKS.--Reservoir is formed by earth dam with emergency spillway; storage began Feb. 2, 1952. Capacity at spillway level, elevation, 740 ft (226 m), 26,900 acre-ft (33.2 hm^3), of which 9,220 acre-ft (11.4 hm^3) is in water supply pool. Dead storage, 35 acre-ft (43,200 m^3). Figures given herein represent usable contents. Reservoir is used for flood control, although water supply pool is operated for increased low flow for recreation and conservation of fish and wildlife. Outflow is controlled by operation of gates in conduit through dam.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 17,820 acre-ft (22.0 hm^3) May 31, 1968, elevation, 731.53 ft (222.970 m); minimum, 3,450 acre-ft (4.25 hm^3) Nov. 20, 1953, elevation, 709.89 ft (216.374 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 14,450 acre-ft (17.8 hm^3) May 5, elevation, 727.82 ft (221.840 m); minimum, 8,760 acre-ft (10.8 hm^3) Sept. 30, elevation, 720.28 ft (219.541 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	721.52	9580	
Oct. 31	721.06	9270	-310
Nov. 30	721.14	9320	+50
Dec. 31	721.09	9290	-39
CAL YR 1982	--	--	-90
Jan. 31	721.40	9500	+210
Feb. 28	721.05	9260	-240
Mar. 31	721.04	9250	-10
Apr. 30	721.55	9600	+350
May 31	721.46	9540	-60
June 30	721.30	9430	-110
July 31	721.09	9290	-140
Aug. 31	720.69	9020	-270
Sept. 30	720.28	8760	-260
WTR YR 1983	--	--	-820

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 (5.6 km) east of Athens, 1.1 mi (1.8 km) downstream from Strouds Run, and 2.8 mi (4.5 km) upstream from Scott Creek.

DRAINAGE AREA.--957 mi² (2,479 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 17, 1931, nonrecording gage at site 5.3 mi (8.5 km) upstream at datum 11.26 ft (3.432 m) higher, Aug. 18, 1931 to June 18, 1970, at datum 14.81 ft (4.514 m) higher, and Oct. 1, 1971 to Sept. 30, 1976, at datum 11.26 ft (3.432 m) higher.

REMARKS.--Records good. Some regulation by Burr Oak Reservoir on East Branch Sunday Creek 34.3 mi (55.2 km) upstream beginning 1952 (see station 03158500); by Hocking Lake, capacity 3,080 acre-ft (3.80 hm³), on Clear Fork 44.7 mi (71.9 km) upstream beginning in 1949; by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³), constructed between 1955 and 1961 upstream from Lancaster, and Dow Lake capacity 1,884 acre-ft (2.3 hm³), on Strounds Run, 1.1 mi (1.8 km) upstream.

AVERAGE DISCHARGE.-- 7 years, 1,171 ft³/s (33.67 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft³/s (725 m³/s) Feb. 27, 1979, gage height, 25.45 ft (7.757 m); minimum daily, 78 ft³/s (2.21 m³/s) Sept. 30, 1983.

EXTREMES OUTSIDE PERIOD RECORD.--Flood of Mar. 11, 1964 reached a stage of 24.18 ft (7.370 m) at site and datum then in use, discharge, 32,900 ft³/s (932 m³/s). Flood in March 1907 reached a stage of 27 ft (8 m), site and datum then in use, discharge 50,000 ft³/s (1,420 m³/s), estimated by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,400 ft³/s (493 m³/s) May 4, gage height, 24.25 ft (7.391 m); minimum daily, 78 ft³/s (2.21 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	102	1230	1440	956	558	471	2840	1170	511	183	130
2	130	108	913	1250	1480	538	471	4410	999	670	177	118
3	120	116	788	1110	4510	510	1120	9090	933	416	172	114
4	114	158	682	980	3380	484	1690	15400	2820	337	166	109
5	110	190	618	852	2160	464	1450	12500	2030	375	189	105
6	106	202	968	795	1670	454	1200	7800	1330	410	170	99
7	104	178	1240	754	1400	461	1680	3790	1070	326	160	107
8	104	147	937	696	1250	454	3470	2950	869	270	156	101
9	110	132	747	625	1050	454	7120	2520	748	245	148	94
10	147	124	569	590	964	448	8720	2140	666	231	140	92
11	192	124	507	564	949	435	8150	1750	601	220	138	89
12	158	134	521	803	906	467	4280	1300	545	211	134	89
13	136	136	467	721	821	467	3320	1130	499	202	138	120
14	124	145	394	632	799	467	3050	1030	456	194	130	89
15	116	136	464	590	844	457	6210	1310	419	192	124	87
16	114	130	3630	558	913	428	7280	2360	388	187	122	92
17	110	122	3770	497	1200	435	3920	2160	369	233	118	89
18	108	118	1950	457	1330	441	2750	1640	933	275	122	98
19	102	114	1870	373	1160	480	2270	1630	948	817	120	132
20	100	132	3820	397	1030	510	1830	2790	891	773	118	112
21	100	165	2830	406	921	551	1450	2340	857	410	114	107
22	98	329	1840	448	852	583	1250	2990	595	298	111	103
23	98	721	1950	632	806	531	1130	6580	477	275	103	114
24	95	780	5170	871	765	471	1120	8120	410	625	114	111
25	95	875	4150	1020	725	441	1130	4340	369	795	162	96
26	104	671	4050	949	682	422	988	2320	334	471	130	90
27	102	457	4780	780	618	419	890	1770	308	313	111	83
28	98	590	4700	692	572	461	821	1430	290	250	109	82
29	100	1850	3640	639	---	572	788	1300	321	222	118	80
30	96	1770	2290	643	---	579	1270	1690	364	205	132	78
31	100	---	1700	855	---	534	---	1420	---	192	154	---
TOTAL	3554	10956	63185	22719	34713	14976	81299	114840	23009	11151	4283	3010
MEAN	115	365	2038	733	1240	483	2710	3705	767	360	138	100
MAX	192	1850	5170	1440	4510	583	8720	15400	2820	817	189	132
MIN	95	102	394	373	572	419	471	1030	290	187	103	78

CAL YR 1982 TOTAL 348483 MEAN 955 MAX 8000 MIN 95
WTR YR 1983 TOTAL 387695 MEAN 1062 MAX 15400 MIN 78

03159510 HOCKING RIVER BELOW ATHENS, OH--Continued

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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 17...	1100	122	940	7.6	1.0	5.0	1.5	11.2	89	38000
FEB 23...	1300	806	570	7.4	8.0	8.0	23	11.8	103	9200
MAY 17...	1100	2200	445	7.4	19.0	14.5	53	10.2	102	5600
AUG 09...	1200	146	1100	8.1	28.5	25.5	9.8	9.2	115	760

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	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)
NOV 17...	17000	82	31	73	32	1.8	3.9	110	220	85
FEB 23...	3300	56	22	34	24	1.0	2.3	74	130	50
MAY 17...	4300	43	17	17	17	.6	2.6	52	110	29
AUG 09...	230	89	34	68	29	1.6	3.7	112	270	93

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	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)
NOV 17...	.2	7.7	604	.93	.580	.75	1.00	.270	.200	.200
FEB 23...	.2	8.2	356	1.1	.160	.21	.60	.090	<.010	<.010
MAY 17...	.2	9.5	287	1.1	.090	.12	.50	.160	<.010	<.010
AUG 09...	.3	5.4	668	.18	<.010	--	<.10	.230	.020	.040

03159510 HOCKING RIVER BELOW ATHENS, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
NOV											
17...	1100	122	<10	1	65	<1	<1	<1	4	4	21
FEB											
23...	1300	806	<10	1	64	<1	<1	<1	6	9	27
MAY											
17...	1100	2200	90	1	59	1	1	<1	3	7	5
AUG											
09...	1200	146	<10	1	77	<1	<1	<1	<3	7	31

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)
NOV											
17...	1	27	810	<.1	10	15	<1	<1	510	<6.0	5
FEB											
23...	6	15	530	.3	<10	14	<1	<1	360	<6.0	<3
MAY											
17...	5	12	350	.1	10	1	1	<1	250	6.0	3
AUG											
09...	1	26	260	<.1	<10	5	<1	<1	490	<6.0	<3

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
17...	1100	122	5.0	--	--
FEB					
23...	1300	806	8.0	46	100
MAY					
17...	1100	2200	14.5	180	1070
AUG					
09...	1200	146	25.5	22	8.7

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 (61 m) upstream from Sugar Run, 2.8 mi (4.5 km) southeast of Chester, and 8.5 mi (13.7 km) northeast of Pomeroy.

DRAINAGE AREA.--156 mi² (404 km²), includes that of Sugar Run.

PERIOD OF RECORD.--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 (175.842 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Water-quality data collected at this site 1965-77, 1979-81. Sediment data collected 1970-74.

AVERAGE DISCHARGE.--18 years, 174 ft³/s (4.928 m³/s), 15.15 in/yr (385 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,170 ft³/s (231 m³/s) May 25, 1968, gage height, 27.39 ft (8.348 m); minimum, 0.30 ft³/s (0.008 m³/s) Sept. 7, 8, 9, 10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,800 ft³/s (79.3 m³/s) June 4, gage height 17.64 ft (5.377 m) above base of 2,400 ft³/s (68.0 m³/s); minimum, 1.1 ft³/s (0.031 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	11	172	115	91	68	81	456	91	65	9.8	5.1
2	6.9	11	187	100	296	64	79	1010	85	62	52	4.6
3	5.5	23	147	90	831	59	683	1950	75	29	24	4.0
4	4.5	168	115	77	387	56	545	2740	327	21	12	2.2
5	4.0	172	100	63	198	53	289	847	292	44	7.8	2.0
6	3.4	83	167	70	156	54	250	371	132	31	8.5	2.1
7	3.7	49	152	68	155	61	348	252	204	18	25	2.5
8	3.2	35	106	63	134	70	1410	193	102	12	11	3.5
9	2.9	27	86	56	106	107	2370	163	71	10	6.9	3.7
10	70	22	72	56	106	81	1670	127	55	8.7	4.8	3.6
11	72	19	68	87	107	73	646	108	48	7.6	3.9	3.6
12	34	23	67	85	95	96	402	93	42	6.9	3.7	3.6
13	21	69	51	66	107	85	290	81	38	6.4	3.0	3.8
14	16	66	50	59	97	73	250	77	35	5.8	3.6	3.5
15	15	49	79	59	120	67	1500	190	32	5.5	4.6	3.6
16	12	37	1430	55	164	60	901	838	30	5.0	3.7	3.4
17	8.8	30	532	48	414	55	359	491	27	5.9	3.3	4.0
18	9.4	27	215	63	357	53	253	216	28	24	3.4	3.6
19	8.9	25	622	44	279	67	210	304	37	40	3.9	3.5
20	7.7	42	955	29	190	80	174	1010	100	27	4.3	3.6
21	7.1	98	319	29	147	142	149	551	53	22	5.1	3.4
22	7.2	152	195	55	126	184	133	649	39	14	4.1	3.0
23	7.1	150	197	165	122	122	121	1140	30	13	3.0	3.0
24	7.7	151	488	186	109	96	330	377	25	120	2.7	2.3
25	8.0	122	415	148	97	81	375	207	21	124	3.2	2.0
26	7.7	84	505	117	82	71	210	147	17	66	3.4	1.8
27	8.2	100	527	96	71	72	157	113	17	33	4.2	1.5
28	8.3	410	487	82	69	111	133	93	23	19	6.0	1.5
29	8.5	578	273	74	---	112	148	124	22	12	7.2	1.2
30	12	213	179	80	---	99	316	328	27	8.6	6.1	1.1
31	11	---	137	105	---	88	---	129	---	7.1	5.6	---
TOTAL	411.4	3046	9095	2490	5213	2560	14802	15375	2125	873.5	249.8	90.5
MEAN	13.3	102	293	80.3	186	82.6	493	496	70.8	28.2	8.06	3.02
MAX	72	578	1430	186	831	184	2370	2740	327	124	52	5.1
MIN	2.9	11	50	29	69	53	79	77	17	5.0	2.7	1.1
CFSM	.09	.65	1.88	.52	1.19	.53	3.16	3.18	.45	.18	.05	.02
IN.	.10	.73	2.17	.59	1.24	.61	3.53	3.67	.51	.21	.06	.02

CAL YR 1982 TOTAL 59543.8 MEAN 163 MAX 2440 MIN 2.9 CFSM 1.05 IN 14.20
WTR YR 1983 TOTAL 56331.2 MEAN 154 MAX 2740 MIN 1.1 CFSM .99 IN 13.43

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH

LOCATION.--Lat 39°21'48", long 82°18'51", in NE 1/4 SE 1/4 sec. 11, T.11 N., R.16 W., Vinton County, Hydrologic Unit 05090101, on right bank 200 ft (61 m) upstream from State Route 278 crossing, 300 ft (91 m) upstream from Sandy Run, 2.5 mi (4.0 km) southwest of Carbondale, and 3.7 mi (6.0 km) northeast of Lake Hope.

DRAINAGE AREA.--1.01 mi^2 (2.62 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to June 1983 (discontinued).

GAGE.--Water-stage recorder with concrete weir and 6-inch Parshall flume. Datum of gage is 756.04 ft (230.441 m), National Geodetic Vertical Datum of 1929. Prior to October 1, 1978, at datum 20.00 ft (6.096 m) higher.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--12 years (1970-82), 1.14 ft^3/s (0.032 m^3/s), 15.33 in/yr (389 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft^3/s (34.0 m^3/s) June 22, 1974, gage height, 24.72 ft (7.535 m) on basis of culvert and flow-over road measurement; no flow July 30 to Aug. 3, 1975, Sept. 8-14, 27-30, 1977, July 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) April 9, gage height, 23.42 ft (7.138 m); minimum, 0.07 ft^3/s (0.002 m^3/s) Oct. 27-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.08	.43	.56	.56	.36	.43	1.9	.68			
2	.14	.08	.46	.48	11	.35	2.1	6.4	.56			
3	.14	.17	.38	.38	5.0	.33	3.8	18	9.6			
4	.16	.33	.31	.33	2.6	.33	2.0	8.8	12			
5	.16	.22	1.1	.33	1.6	.31	1.4	3.2	2.8			
6	.14	.17	1.1	.36	1.4	.33	1.8	2.2	1.4			
7	.19	.14	.54	.31	1.2	.33	2.8	1.9	.95			
8	.45	.13	.38	.28	.93	.33	19	1.6	.70			
9	.43	.12	.30	.28	.77	.31	24	1.3	.54			
10	.33	.12	.24	.56	.75	.30	7.3	1.2	.46			
11	.17	.12	.22	.45	.70	.31	3.5	1.4	.38			
12	.16	.14	.18	.36	.58	.28	2.0	1.3	.31			
13	.16	.14	.14	.34	.56	.28	1.7	1.1	.26			
14	.16	.13	.13	.38	.75	.28	4.5	1.1	.24			
15	.16	.11	5.7	.30	.90	.26	8.8	3.8	.21			
16	.14	.11	6.0	.30	1.6	.26	2.9	8.8	.18			
17	.14	.11	1.4	.24	1.6	.26	2.0	2.5	.19			
18	.14	.11	.77	.17	1.2	.25	1.4	1.8	.18			
19	.14	.11	3.8	.17	.93	.38	1.0	8.8	.25			
20	.14	.25	2.5	.21	.75	.38	.81	7.8	.25			
21	.26	.50	1.2	.62	.68	.56	.62	6.7	.17			
22	.58	.36	.79	1.9	.64	.48	.54	11	.14			
23	.36	.75	7.1	1.4	.60	.41	.48	5.9	.13			
24	.14	.88	3.5	1.1	.54	.36	.90	2.4	.13			
25	.12	.33	3.6	.86	.50	.31	.79	1.6	.12			
26	.09	.24	3.5	.70	.45	.28	.62	1.3	.10			
27	.07	.22	3.3	.64	.42	.36	.56	1.1	.10			
28	.07	2.7	1.9	.56	.38	.45	.50	.95	.16			
29	.08	.97	1.2	.50	---	.46	.45	2.7	.26			
30	.08	.50	.86	.68	---	.46	2.5	1.5	.16			
31	.08	---	.68	.64	---	.43	---	.77	---			
TOTAL	5.72	10.34	53.71	16.39	39.59	10.78	101.30	120.82	33.61			
MEAN	.18	.34	1.73	.53	1.41	.35	3.38	3.90	1.12			
MAX	.58	2.7	7.1	1.9	11	.56	24	18	12			
MIN	.07	.08	.13	.17	.38	.25	.43	.77	.10			
CFSM	.18	.34	1.71	.53	1.40	.35	3.35	3.86	1.11			
IN.	.21	.38	1.98	.60	1.46	.40	3.73	4.45	1.24			

CAL YR 1982 TOTAL 356.00 MEAN .98 MAX 21 MIN .02 CFSM .97 IN 13.10

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to 1974, 1975 to June 1983 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1971 to June 1983 (discontinued).
pH: January 1971 to June 1983 (discontinued).
WATER TEMPERATURES: January 1971 to June 1983 (discontinued).
SUSPENDED SEDIMENT DISCHARGE: October 1978 to June 1983 (discontinued).

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument. Sediment samples collected daily and on events by observer.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,530 micromhos Sept. 13, 1973; minimum, 72 micromhos Oct. 17, 1975.
pH: Maximum, 7.7 units June 6, 1981; minimum, 2.1 units on several days during October and December 1971, February and March 1972, December 1973.
WATER TEMPERATURES: Maximum, 34.5°C Aug. 12, 1973; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,240 mg/L Aug. 21, 1979; minimum daily mean, 0.0 mg/L many days during previous years.
SEDIMENT LOADS: Maximum daily, 170 tons (154 tonnes) June 6, 1981; minimum daily, 0.0 tons many days during previous years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,230 micromhos Oct. 31, Nov. 3; minimum, 99 micromhos June 3.
pH: Maximum recorded, 6.2 units Apr. 2,3; minimum, 2.5 units Nov. 11.
WATER TEMPERATURES: Maximum, 28.0°C June 26; minimum 0.5°C Dec. 12, Jan 22-24, Feb. 9, 12.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 321 mg/L Apr. 9; minimum daily mean, 1.0 mg/L on Dec. 4.
SEDIMENT LOADS: Maximum daily, 35 tons (31.9 tonnes) Apr. 9; minimum daily, 0.0 tons many days throughout the year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	STREAMFLOW, INSTANTANEOUS (CFS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	ACIDITY (MG/L AS H)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
NOV 09...	1700	1720	.12	3.0	16.0	10.5	--	14	140	72	12	3.4
JAN 25...	1405	540	.76	3.9	--	2.5	12	1.3	39	17	5.3	1.8
MAR 17...	1230	843	.31	3.4	13.0	6.9	--	3.1	55	29	7.5	2.1
MAY 10...	1130	465	.88	3.9	15.5	12.0	--	1.6	37	15	4.6	1.8
JUN 29...	1330	1120	.30	3.1	--	20.0	<10	5.3	82	37	7.1	3.0

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
NOV 09...	930	5.0	1370	--	--	--	--	--	--	--	44000	0
JAN 25...	190	4.2	289	.10	.20	.30	1.3	.420	1.3	400	10000	0
MAR 17...	400	5.0	564	--	--	--	--	--	--	--	24000	1000
MAY 10...	200	2.3	299	--	--	--	--	--	--	--	10000	500
JUN 29...	540	11	705	.10	.40	.50	2.2	<.010	--	240	21000	0

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
NOV 09...	44000	--	16000	0	16000	--	--	--	690	--	--
JAN 25...	10000	<1	3700	100	3600	--	130	0	130	1.6	.2
MAR 17...	23000	20	5400	0	5400	--	--	--	220	--	--
MAY 10...	9500	20	2700	0	2700	--	--	--	210	--	--
JUN 29...	21000	42	7500	0	7500	140	370	0	370	2.6	.2

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2090	2020	2050	2220	2170	2200	933	684	834	---	---	---
2	2120	2060	2090	2210	2160	2190	861	732	811	---	---	---
3	2150	1790	2070	2230	1660	1980	951	861	914	---	---	---
4	2010	1850	1940	1680	1290	1460	1040	954	998	---	---	---
5	2060	1810	1930	1490	1390	1420	1070	288	847	---	---	---
6	2200	1920	2080	1630	1500	1560	509	354	508	---	---	---
7	2200	2020	2160	1700	1600	1630	762	615	692	753	705	728
8	2150	2090	2120	1690	1660	1670	858	768	818	792	726	770
9	2150	2000	2090	1730	1610	1680	954	855	933	822	780	807
10	2060	1970	2010	1770	1540	1680	993	945	976	828	576	757
11	2110	2050	2070	1800	1710	1760	1010	972	987	621	579	598
12	2110	2070	2100	1790	1460	1690	1070	870	1030	675	615	647
13	2120	2090	2110	1610	1460	1540	1180	1060	1130	708	666	693
14	2120	2080	2100	1630	1550	1590	1160	1080	1140	726	669	708
15	2120	2060	2100	1680	1540	1620	1170	189	732	717	594	693
16	2120	2060	2080	1670	1450	1620	360	174	273	825	693	739
17	2110	2050	2080	1720	1630	1670	453	360	413	774	681	729
18	2130	2060	2100	1770	1700	1730	534	423	497	876	744	804
19	2150	2060	2110	1790	1710	1760	528	273	420	1000	729	899
20	2140	2010	2080	1790	1210	1510	---	---	---	1020	744	914
21	2090	1980	2050	1230	912	1050	---	---	---	924	729	855
22	2140	2090	2110	1190	993	1110	---	---	---	858	282	552
23	2130	1930	2100	1280	417	1070	---	---	---	372	321	357
24	2140	2100	2120	933	519	769	---	---	---	429	357	395
25	2140	1890	2070	1100	942	1020	---	---	---	468	414	445
26	2130	1850	2000	1200	1090	1150	---	---	---	486	435	462
27	2100	1880	2000	1220	1110	1170	---	---	---	573	537	553
28	2150	1870	2010	1210	288	679	---	---	---	606	564	588
29	2210	1910	2070	735	477	615	---	---	---	630	585	610
30	2220	2200	2210	897	741	820	---	---	---	627	528	579
31	2230	2200	2220	---	---	---	---	---	---	573	522	547
MONTH	2230	1790	2080	2230	288	1450	1180	174	787	1020	282	657

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	597	552	578	741	705	723	642	594	615	339	312	323
2	588	177	348	774	723	751	599	276	567	312	177	222
3	276	201	244	801	750	774	312	267	295	---	---	---
4	333	249	290	831	783	802	339	279	290	---	---	---
5	381	318	349	861	810	832	378	285	339	---	---	---
6	396	339	370	864	798	836	387	270	323	---	---	---
7	420	354	386	876	819	842	339	204	290	---	---	---
8	468	408	439	858	822	848	264	162	203	---	---	---
9	525	441	470	855	816	839	156	129	143	---	---	---
10	507	471	490	876	852	863	207	156	180	465	438	456
11	504	453	485	876	786	819	255	198	246	534	459	493
12	639	477	555	852	804	826	270	255	260	573	531	549
13	588	534	561	822	780	800	339	303	325	615	570	593
14	558	369	510	825	786	802	369	147	306	651	555	618
15	551	426	465	846	792	817	231	147	193	576	312	431
16	474	333	405	876	828	847	279	231	257	345	261	301
17	387	327	360	867	837	851	321	279	300	420	348	383
18	420	348	402	861	822	845	354	321	336	468	420	442
19	462	378	429	822	717	742	393	354	375	477	240	328
20	510	426	477	753	720	732	441	396	417	315	252	282
21	534	462	512	720	564	603	477	438	457	327	249	290
22	561	522	543	615	570	593	513	474	495	279	222	239
23	573	531	558	660	612	637	543	489	519	282	255	266
24	609	570	588	669	630	650	480	390	418	---	---	---
25	633	591	612	699	642	672	450	399	424	---	---	---
26	690	633	666	738	681	709	489	444	464	---	---	---
27	729	684	709	726	609	662	519	480	497	---	---	---
28	738	699	715	606	567	585	537	510	519	---	---	---
29	---	---	---	579	558	567	549	510	529	---	---	---
30	---	---	---	588	561	576	435	267	328	---	---	---
31	---	---	---	606	582	592	---	---	---	543	504	527
MONTH	738	177	483	876	558	743	699	129	364	651	177	397

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	591	546	565									
2	651	591	619									
3	657	99	517									
4	255	126	196									
5	348	255	296									
6	411	348	373									
7	480	414	440									
8	549	483	507									
9	621	552	582									
10	699	621	653									
11	771	699	728									
12	846	768	796									
13	921	831	868									
14	1000	915	943									
15	1060	981	1010									
16	1110	1040	1070									
17	1110	996	1070									
18	1110	1100	1100									
19	1160	912	1050									
20	1090	945	1010									
21	1170	1090	1110									
22	1280	1150	1190									
23	1340	1250	1280									
24	1370	1310	1330									
25	1430	1340	1370									
26	1470	1400	1430									
27	1510	1450	1480									
28	1530	852	1430									
29	1210	894	1090									
30	1340	1210	1270									
31	---	---	---									
MONTH	1530	99	912									
YEAR	2230	99	916									

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3.0	2.8	2.9	2.9	2.7	2.8	3.4	3.3	3.3	---	---	---
2	3.0	2.8	2.9	2.9	2.7	2.8	3.4	3.2	3.3	---	---	---
3	2.9	2.8	2.9	3.0	2.7	2.9	3.3	3.2	3.2	---	---	---
4	2.9	2.8	2.9	3.2	2.8	3.0	3.2	3.1	3.2	---	---	---
5	2.9	2.7	2.8	3.2	3.0	3.1	4.5	3.1	3.4	---	---	---
6	2.9	2.8	2.9	3.1	2.9	3.0	4.3	3.7	3.9	---	---	---
7	3.0	2.8	2.9	3.1	2.8	3.0	3.7	3.5	3.6	3.5	3.2	3.3
8	3.0	2.8	2.9	3.0	2.9	3.0	3.5	3.3	3.4	3.2	3.1	3.2
9	3.0	2.8	2.9	3.0	2.9	2.9	3.4	3.2	3.3	3.2	3.0	3.1
10	3.0	2.8	2.9	3.0	2.9	3.0	3.3	3.1	3.2	3.3	3.0	3.1
11	3.0	2.8	2.9	2.9	2.5	2.9	3.3	3.3	3.3	3.4	3.3	3.4
12	3.0	2.8	3.0	---	---	---	3.3	3.2	3.3	3.5	3.3	3.4
13	3.0	2.8	2.9	2.9	2.8	2.9	3.3	3.2	3.3	3.3	3.2	3.2
14	3.0	2.9	3.0	3.0	2.9	3.0	3.3	2.8	3.1	3.3	3.1	3.2
15	3.0	2.9	3.0	3.0	2.9	3.0	5.3	2.6	3.6	3.3	3.2	3.3
16	3.0	2.9	3.0	3.0	3.0	3.0	5.2	4.3	4.7	3.4	3.2	3.3
17	3.1	2.8	3.0	3.0	2.9	3.0	4.3	3.8	4.0	3.3	3.2	3.2
18	3.0	2.8	2.9	2.9	2.9	2.9	3.9	3.5	3.7	3.3	3.2	3.3
19	3.0	2.8	2.9	2.9	2.9	2.9	5.0	3.6	3.9	3.3	3.0	3.1
20	3.0	2.8	2.9	3.1	2.9	3.0	---	---	---	3.2	3.0	3.1
21	3.0	2.8	2.9	3.2	3.1	3.2	---	---	---	3.0	2.9	3.0
22	3.0	2.8	2.9	3.1	3.0	3.1	---	---	---	4.8	2.9	3.5
23	3.0	2.6	2.8	3.7	2.7	3.1	---	---	---	4.7	4.0	4.2
24	2.8	2.6	2.7	3.6	2.9	3.4	---	---	---	4.1	3.7	3.8
25	2.8	2.6	2.8	3.3	3.2	3.3	---	---	---	3.7	3.6	3.7
26	3.0	2.6	2.8	3.2	3.1	3.2	---	---	---	3.8	3.6	3.6
27	3.0	2.7	2.9	3.2	3.1	3.2	---	---	---	3.6	3.5	3.6
28	3.0	2.7	2.9	4.8	3.2	3.8	---	---	---	3.5	3.3	3.5
29	3.0	2.7	2.9	3.9	3.6	3.7	---	---	---	3.5	3.3	3.3
30	2.9	2.7	2.8	3.5	3.3	3.4	---	---	---	3.6	3.3	3.4
31	2.9	2.7	2.8	---	---	---	---	---	---	3.6	3.4	3.5
MONTH	3.1	2.6	2.9	4.8	2.5	3.1	5.3	2.6	3.5	4.8	2.9	3.4

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.4	3.5	3.4	3.2	3.3	3.6	3.3	3.5			
2	5.6	3.5	4.7	3.6	3.3	3.5	5.2	3.4	4.0			
3	5.6	5.3	5.4	3.7	3.5	3.6	5.2	5.6	5.8			
4	5.4	4.8	5.1	3.6	3.4	3.5	5.2	4.9	5.0			
5	4.9	4.4	4.6	3.6	3.3	3.5	4.9	4.5	4.7			
6	4.4	4.2	4.3	3.4	3.4	3.4	5.3	4.3	4.9			
7	4.3	4.2	4.3	3.5	3.4	3.5	5.1	4.9	5.4			
8	4.2	3.9	4.1	3.5	3.4	3.5	5.1	5.4	5.9			
9	4.0	3.8	3.9	3.5	3.5	3.5	5.8	5.6	5.7			
10	3.9	3.8	3.8	3.6	3.5	3.5	5.6	5.3	5.5			
11	3.9	3.8	3.8	3.6	3.5	3.6	5.3	5.1	5.3			
12	3.9	3.6	3.8	3.6	3.5	3.6	5.2	4.9	5.1			
13	3.7	3.5	3.7	3.7	3.5	3.6	---	---	---			
14	4.2	3.6	3.8	3.6	3.4	3.5	---	---	---			
15	4.2	3.7	4.0	3.6	3.4	3.5	---	---	---			
16	4.9	4.0	4.4	3.6	3.4	3.5	---	---	---			
17	4.8	4.3	4.5	3.5	3.4	3.5	---	---	---			
18	4.3	4.0	4.2	3.5	3.4	3.5	---	---	---			
19	4.2	3.7	4.0	3.6	3.5	3.6	---	---	---			
20	4.0	3.5	3.8	3.6	3.5	3.6	---	---	---			
21	3.8	3.5	3.7	4.0	3.6	3.9	---	---	---			
22	3.8	3.4	3.6	4.0	3.9	3.9	---	---	---			
23	3.7	3.6	3.6	3.9	3.8	3.9	---	---	---			
24	3.7	3.5	3.6	3.9	3.7	3.8	---	---	---			
25	3.7	3.6	3.6	3.9	3.6	3.8	---	---	---			
26	3.7	3.4	3.6	3.8	3.6	3.7	---	---	---			
27	3.6	3.2	3.4	3.8	3.6	3.7	---	---	---			
28	3.4	3.1	3.3	3.9	3.7	3.8	---	---	---			
29	---	---	---	3.9	3.9	3.9	---	---	---			
30	---	---	---	4.0	3.7	3.9	---	---	---			
31	---	---	---	3.7	3.4	3.5	---	---	---			
MONTH	5.6	3.1	4.0	4.0	3.2	3.6	5.2	3.3	5.1			
YEAR	6.2	2.5	3.5									

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

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.0	11.0	13.0									
2	17.0	10.0	13.5									
3	14.5	12.5	13.0									
4	16.0	12.5	14.0									
5	19.0	11.5	14.5									
6	18.5	12.5	15.0									
7	18.0	12.5	15.0									
8	20.5	11.5	15.0									
9	21.5	11.5	15.5									
10	22.5	12.5	16.5									
11	23.5	13.5	17.5									
12	24.0	14.5	18.5									
13	24.0	15.5	19.0									
14	26.0	16.5	20.0									
15	25.0	16.0	19.5									
16	24.0	16.0	19.5									
17	23.5	18.0	20.0									
18	21.0	17.5	19.0									
19	21.5	17.5	19.0									
20	24.0	17.5	20.0									
21	22.0	16.0	18.5									
22	25.0	16.0	20.0									
23	27.5	16.5	20.5									
24	26.5	17.0	21.0									
25	27.0	17.0	21.0									
26	28.0	16.5	21.5									
27	27.5	17.5	21.5									
28	25.0	20.0	21.5									
29	21.0	19.5	20.0									
30	26.0	18.0	21.0									
31	---	---	---									
MONTH	28.0	10.0	18.0									
YEAR	28.0	.5	9.0									

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

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	2200	821	---	576	723	615	323	563			
2	2090	2190	813	---	237	751	566	204	614			
3	2110	2010	921	---	249	770	295	---	647			
4	1930	1380	998	---	290	800	290	---	192			
5	1950	1410	1040	---	348	821	347	---	285			
6	2060	1550	521	---	369	848	324	---	363			
7	2160	1620	702	734	387	834	293	---	428			
8	2110	1660	824	774	441	852	209	---	494			
9	2080	1680	930	807	468	842	139	---	572			
10	1990	1710	980	806	489	858	180	460	642			
11	2060	1760	986	597	483	812	231	480	717			
12	2100	1730	1040	651	513	821	274	543	780			
13	2110	1550	1130	693	561	800	324	590	845			
14	2100	1600	1150	708	505	797	336	620	923			
15	2100	1620	933	696	464	810	197	371	995			
16	2080	1640	282	738	402	840	260	297	1060			
17	2080	1670	417	734	356	846	300	378	1090			
18	2100	1730	507	806	401	846	338	440	1100			
19	2120	1760	453	914	426	729	374	261	1110			
20	2080	1470	---	938	471	728	414	278	1010			
21	2050	1000	---	860	515	575	456	284	1100			
22	2110	1110	---	573	546	596	497	237	1170			
23	2110	1200	---	362	562	642	516	267	1260			
24	2120	776	---	402	588	656	399	---	1330			
25	2090	1020	---	446	614	677	420	---	1370			
26	2000	1140	---	530	668	713	461	---	1440			
27	1990	1170	---	551	708	654	489	---	1490			
28	2010	471	---	587	714	579	516	---	1500			
29	2060	617	---	606	---	566	527	---	1130			
30	2210	810	---	573	---	578	335	---	1260			
31	2220	---	---	542	---	593	---	530	---			
MEAN	2080	1440	813	665	477	741	364	386	916			

WTR YR 1983 MEAN 917 MAX 2220 MIN 139
NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.8	3.3	---	3.5	3.3	3.4					
2	2.9	2.8	3.3	---	5.4	3.5	3.8					
3	2.9	2.9	3.2	---	5.4	3.6	5.8					
4	2.9	3.0	3.2	---	5.1	3.6	5.0					
5	2.9	3.1	3.1	---	4.7	3.5	4.7					
6	2.9	3.0	3.9	---	4.4	3.4	5.1					
7	2.9	3.0	3.6	3.2	4.3	3.5	5.2					
8	2.9	3.0	3.5	3.2	4.1	3.5	6.1					
9	2.9	2.9	3.3	3.1	3.9	3.5	5.7					
10	2.9	3.0	3.3	3.0	3.8	3.5	5.6					
11	2.9	2.4	3.3	3.4	3.8	3.6	5.3					
12	3.0	---	3.3	3.4	3.8	3.6	5.1					
13	2.9	2.9	3.3	3.2	3.7	3.6	---					
14	3.0	3.0	3.1	3.2	3.8	3.6	---					
15	3.0	3.0	2.9	3.3	4.1	3.5	---					
16	3.0	3.0	4.7	3.3	4.4	3.5	---					
17	3.0	3.0	4.1	3.2	4.5	3.5	---					
18	2.9	2.9	3.7	3.3	4.2	3.5	---					
19	2.9	2.9	3.9	3.2	4.0	3.6	---					
20	2.9	3.0	---	3.1	3.9	3.6	---					
21	3.0	3.2	---	3.0	3.8	3.9	---					
22	2.9	3.1	---	3.2	3.6	3.9	---					
23	2.9	3.0	---	4.1	3.6	3.9	---					
24	2.7	3.4	---	3.8	3.6	3.8	---					
25	2.8	3.3	---	3.7	3.6	3.8	---					
26	2.8	3.2	---	3.6	3.6	3.7	---					
27	2.9	3.2	---	3.6	3.4	3.7	---					
28	2.9	4.0	---	3.5	3.4	3.8	---					
29	2.9	3.7	---	3.3	---	3.9	---					
30	2.9	3.4	---	3.3	---	4.0	---					
31	2.8	---	---	3.5	---	3.6	---					
MEAN	2.9	3.1	3.5	3.4	4.1	3.6	5.1					

WTR YR 1983 MEAN 3.5 MAX 6.1 MIN 2.4
NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

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

WTR YR 1983 MEAN 9.0 MAX 21.0 MIN .5

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

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.14	17	.00	.08	10	.00	.43	8	.00
2	.14	15	.00	.08	17	.00	.46	6	.00
3	.14	9	.00	.17	10	.00	.38	7	.00
4	.16	10	.00	.33	10	.00	.31	1	.00
5	.16	10	.00	.22	10	.00	1.1	24	.15
6	.14	7	.00	.17	10	.00	1.1	19	.06
7	.19	13	.00	.14	10	.00	.54	18	.03
8	.45	20	.02	.13	9	.00	.38	9	.00
9	.43	15	.02	.12	7	.00	.30	17	.01
10	.33	8	.00	.12	7	.00	.24	9	.00
11	.17	6	.00	.12	14	.00	.22	10	.00
12	.16	13	.00	.14	15	.00	.18	12	.00
13	.16	16	.00	.14	15	.00	.14	14	.00
14	.16	16	.00	.13	5	.00	.13	8	.00
15	.16	17	.00	.11	12	.00	5.7	79	2.0
16	.14	9	.00	.11	7	.00	6.0	40	.65
17	.14	12	.00	.11	13	.00	1.4	19	.07
18	.14	33	.01	.11	5	.00	.77	12	.02
19	.14	13	.00	.11	17	.00	3.8	21	.22
20	.14	18	.00	.25	11	.00	2.5	19	.13
21	.26	21	.01	.50	12	.02	1.2	12	.04
22	.58	14	.02	.36	9	.00	.79	8	.02
23	.36	15	.01	.75	24	.10	7.1	46	.93
24	.14	21	.00	.88	15	.04	3.5	24	.23
25	.12	26	.00	.33	8	.00	3.6	23	.22
26	.09	21	.00	.24	7	.00	3.5	18	.17
27	.07	12	.00	.22	8	.00	3.3	17	.15
28	.07	11	.00	2.7	45	.46	1.9	19	.10
29	.08	20	.00	.97	18	.05	1.2	17	.05
30	.08	15	.00	.50	10	.01	.86	15	.03
31	.08	10	.00	---	---	---	.68	16	.03
TOTAL	5.72	---	0.09	10.34	---	0.68	53.71	---	5.32
		JANUARY			FEBRUARY			MARCH	
1	.56	18	.03	.56	21	.03	.36	23	.02
2	.48	20	.03	11	97	2.6	.35	24	.02
3	.38	22	.02	5.0	16	.22	.33	20	.02
4	.33	18	.02	2.6	19	.13	.33	17	.02
5	.33	15	.01	1.6	17	.07	.31	15	.01
6	.36	12	.01	1.4	18	.07	.33	13	.01
7	.31	21	.02	1.2	20	.06	.33	8	.00
8	.28	24	.02	.93	21	.05	.33	15	.01
9	.28	20	.02	.77	18	.04	.31	9	.00
10	.56	14	.02	.75	19	.04	.30	9	.00
11	.45	18	.02	.70	19	.04	.31	13	.01
12	.36	19	.02	.58	18	.03	.28	13	.00
13	.34	21	.02	.56	19	.03	.28	8	.00
14	.38	20	.02	.75	20	.04	.28	13	.00
15	.30	19	.02	.90	21	.05	.26	15	.01
16	.30	18	.01	1.6	18	.08	.26	16	.01
17	.24	16	.01	1.6	17	.07	.26	18	.01
18	.17	19	.00	1.2	16	.05	.25	19	.01
19	.17	18	.00	.93	16	.04	.38	16	.02
20	.21	18	.01	.75	16	.03	.38	20	.02
21	.62	28	.07	.68	16	.03	.56	20	.03
22	1.9	48	.25	.64	20	.03	.48	8	.01
23	1.4	17	.06	.60	19	.03	.41	21	.02
24	1.1	23	.07	.54	21	.03	.36	3	.00
25	.86	18	.04	.50	18	.02	.31	24	.02
26	.70	20	.04	.45	18	.02	.28	26	.02
27	.64	19	.03	.42	21	.02	.36	11	.01
28	.56	17	.03	.38	28	.03	.45	11	.01
29	.50	19	.03	---	---	---	.46	11	.01
30	.68	16	.03	---	---	---	.46	17	.02
31	.64	19	.03	---	---	---	.43	14	.02
TOTAL	16.39	---	1.01	39.59	---	3.98	10.78	---	0.37

03201700 BIG FOUR HOLLOW CREEK NEAR LAKE HOPE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.43	18	.02	1.9	23	.12	.68	40	.07
2	2.1	39	.44	6.4	49	1.1	.56	22	.03
3	3.8	22	.23	18	73	4.0	9.6	86	.42
4	2.0	11	.06	8.8	26	.62	12	44	1.4
5	1.4	12	.05	3.2	13	.11	2.8	13	.10
6	1.8	22	.11	2.2	16	.10	1.4	14	.05
7	2.8	25	.19	1.9	16	.08	.95	19	.05
8	19	259	23	1.6	16	.07	.70	17	.03
9	24	321	35	1.3	14	.05	.54	17	.02
10	7.3	17	.34	1.2	18	.06	.46	8	.00
11	3.5	20	.19	1.4	20	.08	.38	5	.00
12	2.0	14	.08	1.3	18	.06	.31	7	.00
13	1.7	19	.09	1.1	16	.05	.26	7	.00
14	4.5	45	1.4	1.1	20	.06	.24	8	.00
15	8.8	41	1.4	3.8	26	.27	.21	13	.00
16	2.9	13	.10	8.8	21	.50	.18	9	.00
17	2.0	11	.06	2.5	17	.11	.19	9	.00
18	1.4	18	.07	1.8	16	.08	.18	9	.00
19	1.0	15	.04	8.8	72	2.1	.25	10	.00
20	.81	15	.03	7.8	45	.95	.25	10	.00
21	.62	26	.04	6.7	49	.89	.17	5	.00
22	.54	18	.03	11	45	1.3	.14	5	.00
23	.48	15	.02	5.9	30	.48	.13	5	.00
24	.90	22	.05	2.4	17	.11	.13	5	.00
25	.79	22	.05	1.6	20	.09	.12	5	.00
26	.62	17	.03	1.3	22	.08	.10	5	.00
27	.56	17	.03	1.1	23	.07	.10	5	.00
28	.60	19	.03	.95	28	.07	.16	9	.00
29	.45	25	.03	2.7	77	.86	.26	21	.01
30	2.5	32	.29	1.5	40	.16	.16	19	.00
31	---	---	---	.77	19	.04	---	---	---
TOTAL	101.30	---	63.50	120.82	---	14.72	33.61	---	2.18
		JULY			AUGUST			SEPTEMBER	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL									
YEAR	392.26		91.85						

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

03202000 RACCOON CREEK AT ADAMSVILLE, OH

LOCATION.--Lat 38°52'25", long 82°21'22", in SE 1/4 sec. 26, T.6N., R.16W., Gallia County, Hydrologic Unit 05090101, on left bank at downstream side of U.S. Highway 35 bridge at Adamsville, 1.3 mi (2.1 km) upstream from Ryan Run, and 1.4 mi (2.3 km) downstream from Indian Creek.

DRAINAGE AREA.--585 mi² (1,515 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1915 to December 1935, October 1938 to current year. Monthly discharge only for December 1935, published in WSP 1305.

REVISED RECORDS.--WSP 873: 1916-18, 1920, 1922, 1924, 1926-27, 1931, 1933, 1935(M). WSP 1908: Drainage area. WSP 2108: 1968-70(M).

GAGE.--Water-stage recorder. Datum of gage is 570.04 ft (173.748 m) National Geodetic Vertical Datum of 1929. Prior to June 13, 1940, nonrecording gage, June 13, 1940 to Oct. 27, 1970 water-stage recorder 480 ft (146 m) upstream at same datum.

REMARKS.--Records good. Sediment data collected at this site 1969 to 1974.

AVERAGE DISCHARGE.--65 years, 648 ft³/s (18.35 m³/s), 15.04 in/yr (382 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s (566 m³/s) May 28, 1968, gage height 28.69 ft (8.745 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-conveyance estimate of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) Oct. 17-19, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 25.2 ft (7.68 m), from floodmark, discharge, 16,000 ft³/s (453 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximums (*).

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft³/s)	(m³/s)	(ft)	(m)	Date	Time	(ft³/s)	(m³/s)	(ft)	(m)
Apr. 11	1800	4,090	116	15.80	4.816	May 5	1800	*5,120	145	*17.15	5.227

Minimum daily discharge, 4.0 ft³/s (0.11 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	39	669	638	406	288	275	1430	756	170	65	41
2	32	42	500	530	634	276	276	2390	562	210	64	40
3	29	54	405	460	1270	263	492	3930	471	140	66	40
4	29	61	358	405	1690	250	846	4770	756	94	58	41
5	27	96	322	354	1570	232	955	5070	1220	100	54	38
6	26	116	395	320	1220	222	866	5020	1570	140	53	37
7	25	99	552	297	840	203	897	4410	1640	200	54	37
8	25	94	558	285	704	233	2050	3260	1250	170	52	38
9	25	88	453	271	612	248	3190	1370	624	138	49	37
10	26	77	340	260	535	240	3750	846	457	114	47	37
11	28	73	282	271	502	236	4030	698	368	97	51	38
12	29	72	248	294	489	246	4050	593	311	87	56	32
13	29	74	218	306	462	241	3820	519	270	81	49	28
14	30	78	188	297	436	236	3270	469	239	76	49	24
15	32	81	213	271	448	225	3110	534	213	73	47	27
16	33	75	1110	253	552	211	2850	1300	192	70	45	29
17	31	70	1540	241	819	199	2620	1830	180	69	44	24
18	33	68	1550	208	905	193	2120	1690	170	82	42	20
19	36	68	1490	215	869	230	1370	1270	168	75	42	19
20	35	70	1460	205	743	259	923	1760	162	75	42	20
21	35	81	1320	167	620	351	758	2240	180	71	40	16
22	32	114	1100	215	535	385	643	2340	205	71	39	13
23	30	133	813	344	489	353	573	2520	140	91	42	9.2
24	30	156	890	504	451	322	947	2320	100	89	38	9.7
25	31	230	1270	585	414	291	905	1900	80	85	38	13
26	31	276	1590	587	372	263	778	1350	68	125	38	12
27	32	239	1710	513	333	255	658	854	68	153	42	9.2
28	35	255	1680	441	308	279	551	663	78	116	47	8.7
29	35	497	1480	390	---	285	545	608	92	89	46	6.5
30	33	716	1120	368	---	290	701	606	120	76	42	4.0
31	35	---	827	379	---	285	---	760	---	68	41	---
TOTAL	954	4192	26651	10874	19228	8090	48839	59320	12710	3295	1482	748.3
MEAN	30.8	140	860	351	687	261	1628	1914	424	106	47.8	24.9
MAX	36	716	1710	638	1690	385	4050	5070	1640	210	66	41
MIN	25	39	188	167	308	193	275	469	68	68	38	4.0

CAL YR 1982 TOTAL 173757.0 MEAN 476 MAX 3050 MIN 25
WTR YR 1983 TOTAL 196383.3 MEAN 538 MAX 5070 MIN 4.0

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-54, 1964 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1967 to current year.
pH: May 1967 to current year.
WATER TEMPERATURES: October 1951 to September 1954, October 1964 to current year.
DISSOLVED OXYGEN: May 1967 to current year.

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, 2,930 micromhos Nov. 20, 1964; minimum, 81 micromhos July 9, 1980.
pH: Maximum, 8.8 units Feb. 16, 1972; minimum, 2.0 units May 6, 1972.
WATER TEMPERATURES: Maximum, 29.0°C June 16, 1952; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 15.7 mg/L Mar. 4, 1980; minimum recorded, 2.5 mg/L May 6, 1972.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 921 micromhos Aug. 20; minimum, 174 micromhos May 4.
pH: Maximum, 7.1 units June 4, July 30; minimum, 4.6 units Nov. 30.
WATER TEMPERATURES: Maximum, 30.0°C July 21; minimum, 1.0°C Jan. 23-25.
DISSOLVED OXYGEN: Maximum, 14.2 mg/L Feb. 11; minimum, 5.2 mg/L Aug. 27.

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	597	579	589	684	633	666	468	426	444	291	279	285
2	588	579	584	699	660	674	441	417	430	297	282	290
3	594	576	585	777	660	725	459	423	439	303	297	300
4	588	558	574	648	582	624	459	432	445	321	312	315
5	588	555	569	579	531	550	429	414	418	324	312	319
6	591	561	580	567	528	551	414	366	396	333	318	324
7	609	576	589	564	525	542	426	363	396	339	333	335
8	621	585	599	600	564	586	429	375	401	345	339	341
9	660	615	634	645	603	632	435	405	419	342	339	340
10	660	633	648	645	636	641	414	402	408	---	---	---
11	672	633	662	651	648	650	426	411	414	363	348	356
12	672	645	656	681	648	664	429	408	421	357	351	354
13	678	660	668	663	642	652	414	399	403	381	357	370
14	684	663	673	669	648	663	417	399	409	384	372	376
15	684	651	672	669	633	661	414	327	396	393	375	383
16	690	657	675	663	657	660	306	207	249	390	372	379
17	690	651	675	711	663	691	336	273	300	393	375	379
18	708	657	683	714	684	700	306	264	282	411	396	403
19	672	621	643	717	687	706	261	225	250	435	411	422
20	684	633	646	705	654	681	276	222	249	426	411	417
21	639	624	632	657	558	597	291	264	278	---	---	---
22	642	621	634	609	555	575	303	273	289	---	---	---
23	642	573	620	603	570	581	297	285	290	354	327	338
24	648	588	614	588	558	573	297	267	277	381	333	359
25	714	591	645	579	498	534	315	285	297	372	348	361
26	609	570	586	594	501	537	297	243	267	---	---	---
27	630	585	606	600	489	532	264	246	257	372	363	368
28	693	627	657	504	459	481	273	258	262	375	342	353
29	681	645	667	534	450	483	267	258	263	345	336	340
30	681	642	664	555	423	492	276	264	268	339	330	334
31	660	624	638	---	---	---	279	273	276	339	330	334
MONTH	714	555	631	777	423	610	468	207	342	435	279	351

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	342	339	340	333	324	329	396	381	389	291	243	272
2	312	297	304	408	381	401	402	387	396	246	219	237
3	321	282	300	414	390	401	381	348	363	210	177	184
4	291	252	276	420	396	407	375	339	355	189	174	179
5	---	---	---	423	399	412	369	324	347	192	186	188
6	---	---	---	426	417	420	360	330	342	195	177	186
7	---	---	---	417	372	400	327	291	311	216	192	204
8	288	285	286	378	369	372	291	201	240	219	213	215
9	297	288	291	381	375	379	219	201	207	255	210	233
10	306	294	300	390	378	384	207	198	202	273	252	262
11	309	297	302	390	375	380	198	195	196	291	270	280
12	321	297	307	396	375	384	210	195	202	309	282	294
13	324	312	316	396	372	384	213	204	207	312	297	305
14	321	312	318	408	396	402	231	216	224	324	305	314
15	327	318	322	411	396	403	219	189	200	321	294	310
16	327	303	317	420	402	411	228	201	213	294	234	255
17	300	279	290	423	408	414	207	204	206	279	258	272
18	309	291	302	420	405	415	225	204	215	255	246	249
19	321	291	302	405	393	398	246	222	232	252	240	246
20	321	300	304	399	384	393	261	246	255	255	231	243
21	303	291	297	396	366	378	276	264	270	252	228	235
22	303	291	297	384	357	366	291	273	283	243	228	236
23	300	291	296	390	369	379	297	282	291	234	213	226
24	315	291	306	411	387	400	279	237	248	228	207	217
25	315	306	309	408	396	400	285	240	267	225	204	215
26	327	312	320	417	399	408	303	285	294	240	222	231
27	327	321	324	408	396	404	315	294	304	258	234	246
28	327	324	325	396	390	394	312	300	306	267	252	261
29	---	---	---	396	393	395	306	300	304	285	225	269
30	---	---	---	405	393	398	303	288	298	291	279	286
31	---	---	---	399	387	392	---	---	---	327	288	309
MONTH	342	252	306	426	324	394	402	189	272	327	174	247

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	315	282	300	441	375	409	555	540	546	717	690	705
2	282	276	279	441	417	429	---	---	---	705	666	689
3	291	282	288	492	444	467	---	---	---	705	681	691
4	285	177	263	450	405	427	---	---	---	789	660	694
5	309	255	292	456	387	431	---	---	---	729	654	674
6	258	216	233	501	444	467	---	---	---	663	630	654
7	222	207	217	492	450	462	---	---	---	669	630	652
8	255	222	237	513	465	486	---	---	---	678	600	654
9	270	246	257	513	429	482	---	---	---	660	630	647
10	291	264	277	423	387	396	---	---	---	669	633	654
11	306	285	295	453	396	422	---	---	---	681	600	646
12	351	297	315	516	453	486	---	---	---	645	546	622
13	357	330	348	561	516	536	---	---	---	651	597	609
14	384	330	359	585	555	564	---	---	---	642	600	630
15	378	357	363	564	555	559	---	---	---	732	630	666
16	372	336	359	552	531	540	588	552	575	678	600	649
17	378	345	364	531	486	512	624	576	599	813	639	694
18	381	375	378	489	438	462	630	600	614	729	636	675
19	387	375	380	495	459	481	663	600	638	735	666	691
20	399	378	388	504	471	483	921	645	698	783	729	761
21	390	375	385	507	492	500	714	633	664	750	717	732
22	411	369	390	495	474	483	663	600	629	747	705	722
23	423	411	417	483	453	467	663	600	629	747	705	716
24	429	408	418	459	441	449	633	600	622	798	708	731
25	432	414	422	507	456	477	654	618	641	771	675	710
26	447	423	434	516	489	508	639	600	629	696	675	682
27	474	447	462	483	438	449	879	636	693	711	687	700
28	456	426	437	513	444	475	693	600	655	747	702	728
29	429	408	420	588	519	563	645	603	623	744	720	732
30	408	396	403	537	513	518	648	600	627	771	726	748
31	---	---	---	540	507	523	693	645	661	---	---	---
MONTH	474	177	346	588	375	481	921	540	632	813	546	685
YEAR	921	174	437									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	6.1	6.3	6.3	6.1	6.2	6.1	5.6	5.9	6.2	5.3	6.0
2	6.1	5.9	6.0	6.3	6.1	6.2	6.1	5.9	6.0	6.0	5.1	5.6
3	6.2	6.0	6.1	6.3	6.2	6.2	6.0	5.8	5.9	6.0	5.9	6.0
4	6.3	6.1	6.2	6.6	6.3	6.5	5.8	5.6	5.7	---	---	---
5	6.3	6.2	6.3	6.7	6.4	6.5	6.2	5.7	5.9	---	---	---
6	6.3	6.1	6.2	6.4	6.1	6.3	6.5	6.2	6.4	---	---	---
7	6.3	6.2	6.2	6.6	6.4	6.5	6.4	5.5	6.0	---	---	---
8	6.3	6.2	6.3	6.5	6.2	6.4	5.6	5.3	6.1	---	---	---
9	6.3	6.2	6.2	6.3	6.1	6.2	5.6	6.4	6.5	---	---	---
10	6.2	6.1	6.1	6.1	5.7	5.9	6.4	6.3	6.3	---	---	---
11	6.4	6.2	6.2	6.0	5.8	5.9	6.4	5.2	6.1	---	---	---
12	6.5	6.3	6.4	6.4	5.9	6.0	5.8	4.9	5.4	---	---	---
13	6.5	6.4	6.4	6.6	6.3	6.4	5.9	5.2	5.6	6.2	6.0	6.1
14	6.4	6.4	6.4	6.5	6.3	6.4	5.9	5.2	5.6	6.4	6.1	6.2
15	6.5	6.3	6.4	6.4	6.1	6.4	5.4	5.7	5.9	6.4	6.4	6.4
16	6.4	6.3	6.4	6.3	5.8	6.1	6.6	5.7	6.2	6.4	6.3	6.3
17	6.4	6.2	6.3	6.3	6.1	6.2	5.6	4.7	5.1	6.3	6.3	6.3
18	6.3	6.1	6.2	6.3	6.2	6.2	5.6	5.2	5.4	6.3	6.0	6.2
19	6.3	6.2	6.2	6.3	5.8	6.0	6.1	5.4	5.8	6.1	6.0	6.1
20	6.4	6.3	6.3	6.3	5.8	6.0	6.0	5.2	5.7	6.2	6.1	6.1
21	6.5	6.3	6.4	6.2	6.0	6.1	5.6	5.0	5.3	---	---	---
22	6.6	6.4	6.5	5.9	5.1	5.6	5.8	5.2	5.5	---	---	---
23	6.6	6.5	6.6	6.1	5.2	5.8	5.9	5.5	5.8	---	---	---
24	6.6	6.5	6.6	6.0	5.5	5.8	6.2	5.7	6.0	---	---	---
25	6.6	6.5	6.5	5.7	5.2	5.5	6.1	5.9	6.0	---	---	---
26	6.6	6.3	6.5	5.9	5.5	5.7	6.2	6.0	6.1	---	---	---
27	6.5	6.4	6.5	6.0	5.6	5.8	6.2	6.0	6.1	---	---	---
28	6.6	6.4	6.5	6.6	6.0	6.3	6.1	5.8	6.0	---	---	---
29	6.5	6.3	6.4	6.4	5.0	5.9	6.2	5.9	6.0	---	---	---
30	6.4	6.3	6.3	5.6	4.6	5.0	6.2	6.2	6.2	---	---	---
31	6.4	6.1	6.2	---	---	---	6.3	6.1	6.2	---	---	---
MONTH	6.6	5.9	6.3	6.7	4.6	6.1	6.6	4.7	5.9	6.4	5.1	6.1

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	6.4	6.3	6.4	6.7	6.4	6.5	6.7	6.3	6.5
2	---	---	---	6.3	6.0	6.2	6.7	6.6	6.6	6.8	6.4	6.6
3	---	---	---	6.3	6.2	6.2	6.8	6.5	6.7	6.8	6.6	6.7
4	---	---	---	6.4	6.3	6.3	6.4	6.0	6.2	6.6	6.4	6.5
5	---	---	---	6.5	6.4	6.4	6.4	6.2	6.4	6.4	6.2	6.3
6	---	---	---	6.6	6.5	6.5	6.3	6.1	6.2	6.5	6.2	6.4
7	---	---	---	6.7	6.4	6.6	6.7	6.3	6.4	6.6	6.3	6.4
8	6.1	6.1	6.1	6.6	6.4	6.5	6.8	6.5	6.7	6.5	6.4	6.4
9	6.3	6.1	6.1	6.5	6.4	6.5	6.5	6.1	6.2	6.4	6.1	6.3
10	6.3	5.9	6.0	6.3	6.3	6.3	6.4	6.2	6.3	6.2	5.9	6.1
11	6.5	6.3	6.4	6.4	6.3	6.3	6.2	6.1	6.1	6.2	5.9	6.1
12	6.5	6.3	6.4	6.4	6.3	6.3	6.3	6.0	6.2	6.1	5.9	6.0
13	6.5	6.4	6.4	6.4	6.3	6.4	6.2	6.1	6.2	6.0	5.9	6.0
14	6.5	6.3	6.4	6.4	6.3	6.4	6.6	6.2	6.3	6.0	5.9	6.0
15	6.6	6.4	6.5	6.5	6.3	6.4	6.7	6.2	6.6	6.5	5.7	6.1
16	6.8	6.5	6.6	6.7	6.4	6.5	6.3	6.0	6.2	6.6	6.0	6.4
17	6.8	6.5	6.6	6.6	6.5	6.6	6.4	6.2	6.3	6.1	5.6	5.8
18	6.5	6.3	6.4	6.7	6.6	6.7	6.2	6.1	6.2	6.6	6.1	6.3
19	6.4	6.3	6.4	6.8	6.7	6.8	6.3	6.1	6.2	6.8	6.5	6.6
20	6.3	6.1	6.2	6.8	6.7	6.7	6.3	6.3	6.3	6.8	6.4	6.6
21	6.2	6.1	6.2	6.7	6.6	6.7	6.4	6.3	6.3	6.9	6.2	6.5
22	6.2	6.1	6.2	6.6	6.5	6.6	6.4	6.3	6.3	6.9	6.5	6.7
23	6.3	6.2	6.2	6.6	6.4	6.5	6.6	6.3	6.3	6.8	6.6	6.7
24	6.4	6.1	6.3	6.5	6.2	6.4	6.9	6.6	6.8	6.8	6.4	6.6
25	6.3	6.2	6.3	6.6	6.5	6.6	6.7	6.2	6.5	6.7	6.5	6.6
26	6.3	6.2	6.3	6.6	6.6	6.6	6.5	6.2	6.4	6.6	6.4	6.5
27	6.4	6.2	6.3	6.6	6.6	6.6	6.6	6.4	6.5	6.6	6.3	6.4
28	6.4	6.3	6.3	6.7	6.6	6.7	6.6	6.4	6.6	6.5	6.3	6.4
29	---	---	---	6.7	6.6	6.7	6.6	6.5	6.6	6.6	6.3	6.4
30	---	---	---	6.7	6.5	6.6	6.9	6.6	6.7	6.5	6.1	6.4
31	---	---	---	6.6	6.4	6.5	---	---	---	6.2	5.6	5.8
MONTH	6.8	5.9	6.3	6.8	6.0	6.5	6.9	6.0	6.4	6.9	5.6	6.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	6.2	6.4	---	---	---	6.4	6.3	6.3	6.5	6.4	6.4
2	6.5	6.2	6.3	---	---	---	---	---	---	6.5	6.5	6.5
3	6.6	6.2	6.3	---	---	---	---	---	---	6.5	6.5	6.5
4	7.1	6.5	6.8	---	---	---	---	---	---	6.5	6.5	6.5
5	6.9	5.7	6.5	6.4	6.2	6.0	---	---	---	6.5	6.5	6.5
6	6.9	6.6	6.7	6.2	6.1	6.2	---	---	---	6.5	6.4	6.5
7	6.5	6.4	6.5	4.9	4.8	4.9	---	---	---	6.5	6.5	6.5
8	6.5	6.3	6.4	5.0	4.8	4.9	---	---	---	6.6	6.5	6.6
9	6.5	6.4	6.4	5.1	4.8	4.9	---	---	---	6.8	6.5	6.6
10	6.4	6.3	6.4	6.0	5.2	5.6	---	---	---	6.6	6.5	6.6
11	6.4	6.2	6.3	6.1	6.0	6.0	---	---	---	6.6	6.5	6.6
12	6.3	6.1	6.3	6.0	5.8	5.9	---	---	---	6.7	6.5	6.6
13	6.3	6.1	6.2	6.1	5.6	5.8	---	---	---	6.7	6.6	6.6
14	6.2	6.0	6.1	6.1	5.9	6.0	---	---	---	6.8	6.7	6.8
15	6.2	6.0	6.1	6.3	5.9	6.0	---	---	---	6.8	6.7	6.7
16	6.2	5.9	6.0	6.5	5.9	6.3	6.5	6.4	6.5	6.8	6.7	6.7
17	6.1	5.9	6.0	6.4	6.2	6.3	6.5	6.3	6.4	6.7	6.7	6.7
18	6.0	5.7	5.8	6.8	6.3	6.6	6.3	6.2	6.2	6.7	6.6	6.7
19	5.8	5.7	5.8	6.7	6.0	6.4	6.6	6.2	6.4	7.0	6.5	6.6
20	6.0	5.8	5.9	6.4	6.3	6.4	6.8	6.3	6.4	6.7	6.4	6.4
21	5.8	5.1	5.6	6.3	6.1	6.2	6.5	6.4	6.4	6.5	6.4	6.4
22	5.6	5.1	5.4	6.5	6.3	6.4	6.5	6.4	6.4	6.9	6.4	6.7
23	5.6	5.4	5.5	6.6	6.4	6.5	6.5	6.4	6.5	7.0	6.5	6.8
24	6.0	5.6	5.8	6.9	6.6	6.7	6.6	6.5	6.6	6.7	6.4	6.6
25	6.2	5.9	6.0	6.8	6.6	6.7	6.6	6.5	6.5	6.9	6.6	6.7
26	6.3	6.0	6.2	6.7	6.4	6.5	6.6	6.5	6.5	7.0	6.7	6.8
27	6.2	5.8	5.9	6.7	6.5	6.6	6.5	6.3	6.5	7.0	6.6	6.7
28	---	---	---	6.7	6.5	6.6	6.6	6.5	6.5	6.8	6.5	6.7
29	---	---	---	6.5	6.3	6.4	6.6	6.5	6.5	6.8	6.6	6.7
30	---	---	---	7.1	6.4	6.6	6.5	6.5	6.5	6.8	6.6	6.7
31	---	---	---	6.4	6.4	6.4	6.5	6.4	6.5	---	---	---
MONTH	7.1	5.1	6.1	7.1	4.8	6.1	6.8	6.2	6.5	7.0	6.4	6.6
YEAR	7.1	4.6	6.3									

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	16.0	16.5	26.5	24.0	25.0	27.5	26.0	26.5	24.5	23.5	24.0
2	17.5	15.5	16.5	27.0	25.0	26.0	---	---	---	24.0	22.0	23.0
3	16.5	16.0	16.5	27.0	26.0	26.5	---	---	---	24.0	22.5	23.5
4	18.5	16.0	17.0	27.5	25.0	26.0	---	---	---	24.5	23.0	23.5
5	19.0	16.5	18.0	27.0	25.0	26.0	---	---	---	25.0	23.5	24.5
6	18.0	17.5	17.5	25.5	24.0	25.0	---	---	---	25.5	24.5	25.0
7	19.5	18.5	19.0	24.0	22.0	23.0	---	---	---	25.5	24.5	25.0
8	19.5	18.5	19.0	24.0	21.5	22.5	---	---	---	24.0	22.0	23.0
9	19.5	18.0	19.0	24.0	21.5	23.0	---	---	---	23.0	21.0	22.0
10	20.0	18.5	19.0	25.0	23.0	23.5	---	---	---	23.0	21.0	22.0
11	21.0	19.0	20.0	25.0	22.5	23.5	---	---	---	24.0	22.0	23.0
12	21.5	19.5	20.5	26.0	23.5	24.5	---	---	---	24.0	23.5	23.5
13	22.5	21.0	21.5	27.5	24.5	25.5	---	---	---	24.0	23.0	23.5
14	23.5	21.5	22.5	27.5	25.0	26.0	---	---	---	22.5	20.5	21.5
15	24.0	22.0	23.0	28.0	25.0	26.5	---	---	---	20.5	19.0	19.5
16	24.5	22.0	23.0	28.0	26.0	27.0	23.5	22.0	23.0	20.0	19.0	19.5
17	23.5	22.5	23.0	27.5	26.0	27.0	24.5	23.0	24.0	20.5	19.0	20.0
18	23.0	22.5	22.5	26.5	25.0	26.0	25.0	24.0	24.5	21.0	19.0	20.0
19	23.5	22.0	22.5	27.5	25.0	26.5	26.0	24.0	25.0	21.5	20.0	21.0
20	24.0	22.5	23.0	28.5	26.0	27.0	27.5	25.0	26.5	21.5	20.0	21.0
21	23.5	22.0	22.5	30.0	27.0	28.5	28.0	26.0	27.0	21.5	18.5	20.0
22	23.5	21.5	22.5	29.5	27.5	28.5	28.5	26.5	27.5	18.0	15.5	16.5
23	24.5	22.0	23.0	29.5	27.5	28.5	28.0	26.5	27.0	15.5	14.5	15.0
24	25.5	22.5	23.5	29.0	27.0	28.0	27.5	25.5	26.5	14.5	13.0	13.5
25	25.5	23.0	24.5	27.5	26.0	26.5	27.5	25.5	26.5	14.0	12.5	13.5
26	25.5	23.0	24.5	26.0	24.5	25.5	27.5	25.5	26.5	15.5	14.0	14.5
27	25.5	23.5	24.5	26.5	24.5	25.5	27.5	26.0	27.0	16.0	14.5	15.0
28	25.5	24.0	24.5	27.0	24.5	26.0	27.0	25.5	26.0	16.0	14.5	15.5
29	24.5	24.0	24.0	27.0	25.0	26.0	26.5	25.0	26.0	16.0	15.0	15.5
30	25.5	23.0	24.0	28.0	25.5	26.5	26.5	24.5	25.5	15.5	14.5	15.0
31	---	---	---	28.0	25.5	27.0	26.0	25.0	25.0	---	---	---
MONTH	25.5	15.5	21.0	30.0	21.5	26.0	28.5	22.0	26.0	25.5	12.5	20.0
YEAR	30.0	1.0	13.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.7	8.3	9.0	8.2	7.0	7.3	9.8	9.7	9.7	10.2	9.2	9.6
2	9.5	8.2	8.8	6.9	6.0	6.3	9.7	9.5	9.6	10.1	9.6	10.0
3	9.1	7.9	8.4	6.2	5.4	5.7	9.5	9.2	9.3	9.6	9.2	9.4
4	9.0	7.5	8.2	6.3	5.7	6.0	9.2	8.9	9.0	10.8	10.7	10.8
5	8.8	7.4	8.0	8.7	6.5	7.7	8.9	8.7	8.8	10.7	10.6	10.6
6	8.5	7.2	7.8	9.7	8.8	9.4	8.9	8.7	8.8	10.6	10.2	10.5
7	7.9	6.9	7.4	10.3	9.6	10.0	9.3	8.9	9.2	10.3	9.5	10.0
8	7.5	6.5	7.0	10.6	10.1	10.3	10.2	9.3	9.7	10.4	9.6	10.0
9	7.1	6.2	6.5	10.5	10.0	10.3	9.9	9.7	9.8	9.6	9.4	9.5
10	6.5	5.7	6.1	10.5	10.0	10.3	10.1	9.9	10.0	---	---	---
11	6.6	5.5	6.0	10.1	9.7	10.0	10.1	10.0	10.1	10.3	10.0	10.1
12	7.3	5.8	6.4	9.7	9.2	9.5	10.3	10.0	10.1	10.1	10.0	10.0
13	7.6	6.5	6.9	10.0	9.3	9.6	10.6	10.3	10.5	11.9	10.0	10.8
14	8.1	7.0	7.5	10.3	9.7	10.0	10.8	10.6	10.8	11.5	11.0	11.2
15	8.6	7.5	8.0	10.7	10.2	10.4	10.8	10.2	10.7	11.1	10.9	11.0
16	9.1	7.7	8.4	10.8	10.0	10.5	10.1	9.6	9.8	11.1	10.8	11.0
17	9.4	8.5	8.8	10.6	10.1	10.4	9.8	9.6	9.7	11.0	10.6	10.8
18	9.4	8.7	9.1	10.1	9.4	9.8	9.9	9.6	9.8	10.7	9.7	10.4
19	9.6	8.3	9.0	9.5	9.2	9.4	9.9	9.7	9.9	10.3	9.6	10.1
20	9.3	8.7	9.0	9.2	8.8	9.1	9.8	9.7	9.7	9.5	9.1	9.3
21	9.3	8.6	9.0	9.2	8.4	8.9	9.9	9.7	9.8	---	---	---
22	10.0	8.9	9.3	9.1	8.9	9.0	10.1	9.9	10.0	---	---	---
23	10.3	9.4	9.7	8.8	8.5	8.7	10.0	9.9	10.0	11.1	10.0	10.7
24	10.3	9.7	10.0	9.0	8.5	8.7	9.8	9.8	9.8	11.2	11.0	11.1
25	10.3	9.7	10.0	9.5	9.0	9.3	9.8	9.4	9.5	11.1	10.7	10.9
26	10.1	9.5	9.9	9.7	9.5	9.6	9.3	8.9	9.1	---	---	---
27	10.3	9.6	9.9	9.8	9.7	9.7	8.9	8.5	8.7	11.3	11.1	11.2
28	10.3	9.6	9.9	9.8	9.5	9.7	8.5	8.2	8.3	10.9	8.0	10.1
29	10.0	9.2	9.7	9.6	9.1	9.4	9.3	8.2	8.6	10.2	8.4	9.6
30	9.7	8.7	9.1	9.8	9.1	9.5	9.2	8.7	9.0	9.6	8.9	9.3
31	9.2	8.1	8.5	---	---	---	9.4	9.0	9.3	10.9	9.1	10.1
MONTH	10.3	5.5	8.4	10.8	5.4	9.2	10.8	8.2	9.6	11.9	8.0	10.3

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.7	9.4	9.6	12.2	12.0	12.1	11.1	10.9	11.1	9.3	9.1	9.2
2	11.2	10.2	10.7	12.1	11.8	12.0	10.9	10.3	10.7	9.3	9.0	9.2
3	10.6	10.2	10.4	11.8	11.6	11.8	10.5	10.2	10.4	9.0	8.6	8.7
4	10.8	9.9	10.3	11.6	11.3	11.5	10.9	10.5	10.7	8.7	8.4	8.5
5	---	---	---	11.3	10.9	11.1	10.8	10.7	10.8	8.5	8.2	8.4
6	---	---	---	10.8	10.4	10.6	10.7	10.6	10.7	8.6	8.2	8.4
7	---	---	---	10.3	9.8	10.1	10.6	10.1	10.4	8.4	8.2	8.3
8	12.0	11.6	11.8	9.8	9.6	9.7	10.2	9.8	9.9	8.3	8.2	8.2
9	11.7	11.6	11.7	9.9	9.6	9.8	9.9	9.5	9.7	9.5	8.1	8.8
10	14.0	11.5	12.7	10.3	9.9	10.1	9.5	9.1	9.2	11.0	9.5	9.8
11	14.2	13.8	14.0	10.8	10.3	10.5	9.1	8.9	9.0	9.9	9.4	9.8
12	14.1	13.8	13.9	11.1	10.8	11.0	9.4	8.9	9.1	9.7	9.4	9.5
13	13.8	13.4	13.6	11.2	11.1	11.2	8.9	8.7	8.7	9.4	9.0	9.2
14	13.3	12.8	13.1	11.1	10.7	11.0	8.7	8.4	8.6	9.1	8.4	8.8
15	12.8	12.5	12.7	10.9	10.6	10.7	9.1	8.4	8.8	8.6	8.3	8.5
16	12.5	8.5	11.0	10.9	10.5	10.6	9.3	9.2	9.3	9.9	8.7	9.2
17	11.1	9.1	10.3	10.4	10.3	10.4	9.3	9.2	9.3	9.7	9.5	9.6
18	11.1	10.9	11.0	10.3	10.0	10.2	9.5	9.3	9.4	9.8	9.6	9.7
19	11.1	10.7	10.9	10.1	9.8	9.9	9.8	9.5	9.6	9.9	9.4	9.7
20	11.1	10.9	11.0	10.2	10.0	10.1	10.2	9.9	10.1	10.0	9.2	9.5
21	11.0	10.8	10.9	10.2	9.8	9.9	10.1	10.0	10.1	10.0	8.9	9.2
22	10.8	10.6	10.7	10.8	10.2	10.6	10.0	9.7	9.9	9.2	8.4	8.9
23	10.5	10.2	10.4	11.0	10.8	10.9	9.7	9.2	9.5	8.9	7.5	8.4
24	11.7	10.3	11.0	11.4	10.9	11.1	9.4	9.1	9.3	8.3	7.4	8.0
25	12.0	11.7	11.8	11.4	11.2	11.3	9.6	9.4	9.5	8.2	8.0	8.1
26	12.4	12.0	12.2	11.4	11.1	11.2	10.0	9.4	9.7	8.3	8.1	8.2
27	12.5	12.3	12.4	11.1	10.5	10.9	9.6	9.2	9.5	8.6	8.4	8.5
28	12.4	12.2	12.3	10.5	10.4	10.5	9.2	9.0	9.0	8.7	8.5	8.6
29	---	---	---	10.8	10.5	10.7	9.0	8.9	8.9	8.6	7.9	8.5
30	---	---	---	12.2	10.7	11.3	9.3	8.9	9.0	8.5	8.4	8.4
31	---	---	---	11.4	11.1	11.3	---	---	---	8.4	8.3	8.4
MONTH	14.2	8.5	11.6	12.2	9.6	10.8	11.1	8.4	9.7	11.0	7.4	8.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.4	8.4	8.4	7.4	6.7	6.9	6.1	5.9	6.0	6.6	5.9	6.2
2	8.5	8.3	8.4	7.3	6.7	6.9	---	---	---	6.7	6.3	6.5
3	8.4	8.3	8.4	7.0	6.6	6.8	---	---	---	6.7	6.3	6.5
4	8.3	7.8	8.2	7.0	6.5	6.7	---	---	---	6.6	6.2	6.4
5	8.2	7.9	8.1	6.8	6.3	6.5	---	---	---	6.5	6.1	6.2
6	8.0	7.8	7.9	6.5	6.2	6.3	---	---	---	6.4	5.7	6.0
7	8.2	7.5	8.0	7.8	7.6	7.7	---	---	---	6.1	5.6	5.8
8	8.1	7.9	8.0	7.9	7.5	7.7	---	---	---	5.9	5.5	5.7
9	8.3	8.0	8.2	7.8	7.3	7.6	---	---	---	5.9	5.6	5.7
10	8.3	8.1	8.2	7.3	6.8	7.1	---	---	---	5.9	5.5	5.7
11	8.1	8.0	8.0	7.2	6.7	6.9	---	---	---	6.5	5.3	5.7
12	8.0	7.8	7.9	7.2	6.5	6.8	---	---	---	6.5	5.7	6.1
13	7.8	7.7	7.7	6.9	6.3	6.6	---	---	---	6.2	5.6	5.9
14	7.6	7.3	7.5	6.7	6.1	6.3	---	---	---	6.1	5.3	5.7
15	7.5	7.1	7.3	6.7	6.0	6.3	---	---	---	7.2	5.8	6.4
16	7.5	7.2	7.5	7.7	6.0	6.6	7.4	6.9	7.2	7.1	6.5	6.8
17	7.5	7.3	7.4	7.4	6.6	6.9	7.1	6.7	6.9	7.0	6.6	6.7
18	7.6	7.4	7.5	7.1	6.4	6.6	6.9	6.6	6.7	6.9	6.4	6.7
19	7.6	7.5	7.5	8.0	6.4	7.1	6.9	6.5	6.7	7.1	6.5	6.8
20	7.6	7.4	7.5	8.0	6.6	7.2	6.9	6.5	6.7	7.1	6.5	6.8
21	7.9	7.4	7.6	7.5	6.3	6.9	6.6	6.0	6.4	7.1	6.9	7.0
22	7.9	7.7	7.8	7.7	6.0	6.8	6.5	5.9	6.2	7.5	6.7	7.1
23	7.7	7.4	7.6	7.3	6.3	6.7	6.2	5.8	6.0	8.0	7.4	7.7
24	7.5	7.2	7.4	7.2	6.2	6.6	6.3	5.5	5.9	8.1	7.6	7.8
25	7.3	6.9	7.1	7.0	6.2	6.6	6.2	5.7	6.0	8.3	7.9	8.1
26	7.2	6.8	7.0	7.1	6.5	6.8	6.3	5.7	5.9	8.4	8.0	8.3
27	7.1	6.8	6.9	7.4	6.6	7.0	6.1	5.2	5.8	8.2	7.8	8.0
28	7.1	6.5	6.8	7.3	6.7	6.9	6.2	5.5	5.8	8.1	7.5	7.8
29	6.9	6.5	6.7	7.0	6.6	6.8	6.4	5.7	6.0	7.7	7.2	7.5
30	7.5	6.4	6.8	6.8	6.4	6.6	6.4	5.8	6.1	7.8	6.9	7.4
31	---	---	---	6.5	6.2	6.3	6.3	5.8	6.1	---	---	---
MONTH	8.5	6.4	7.6	8.0	6.0	6.8	7.4	5.2	6.3	8.4	5.3	6.7
YEAR	14.2	5.2	8.9									

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	587	669	443	288	339	330	389	279	299	404	546	708
2	584	671	429	293	303	402	395	239	279	429	---	689
3	585	729	437	300	299	399	365	182	288	471	---	690
4	574	633	444	315	279	408	354	176	276	428	---	689
5	567	548	417	321	---	413	347	188	297	444	---	665
6	579	555	402	323	---	420	342	185	231	455	---	657
7	588	543	401	336	---	405	312	206	219	461	---	651
8	596	588	399	339	285	372	233	216	236	480	---	660
9	636	636	419	340	291	380	204	234	257	489	---	650
10	651	641	408	---	300	381	201	263	278	393	---	654
11	663	651	414	357	300	378	195	281	296	422	---	645
12	657	665	423	354	305	380	204	293	308	489	---	632
13	669	648	402	374	315	384	204	308	348	534	---	603
14	672	666	410	375	318	402	225	314	360	564	---	633
15	675	660	404	383	321	402	201	314	360	558	---	663
16	674	660	255	378	318	413	210	248	357	537	573	651
17	675	693	297	377	293	414	207	272	363	516	602	666
18	681	701	281	402	303	414	216	249	378	458	617	672
19	644	708	255	423	300	396	233	246	379	480	638	690
20	641	683	249	417	303	392	255	242	390	479	666	759
21	632	593	279	---	297	377	270	233	387	498	659	732
22	635	567	291	---	297	363	285	237	387	482	630	725
23	624	582	291	336	297	380	291	228	416	467	621	711
24	615	570	276	356	306	401	242	219	419	449	623	719
25	652	534	297	359	309	399	267	215	423	473	645	707
26	582	537	264	---	321	408	299	231	432	510	630	681
27	609	509	258	369	324	405	305	248	462	444	668	699
28	645	477	261	350	324	393	306	264	435	473	656	734
29	666	471	264	341	---	395	303	272	419	567	623	735
30	663	488	267	333	---	398	297	285	402	516	627	749
31	635	---	276	336	---	393	---	312	---	524	660	---
MEAN	631	609	342	351	306	393	272	248	346	480	628	684

WTR YR 1983 MEAN 436 MAX 759 MIN 176

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.2	5.8	6.2	---	6.4	6.6	6.5	6.3	---	6.3	6.5
2	6.0	6.2	5.9	5.9	---	6.2	6.6	6.7	6.3	---	---	6.5
3	6.1	6.2	5.9	6.0	---	6.2	6.7	6.7	6.3	---	---	6.5
4	6.2	6.6	5.7	---	---	6.3	6.3	6.5	6.8	---	---	6.5
5	6.3	6.5	5.8	---	---	6.4	6.4	6.4	6.6	6.2	---	6.5
6	6.3	6.3	6.4	---	---	6.5	6.2	6.4	6.7	6.2	---	6.5
7	6.2	6.5	6.0	---	---	6.6	6.4	6.4	6.5	4.9	---	6.5
8	6.3	6.4	6.4	---	6.1	6.5	6.7	6.4	6.4	4.9	---	6.6
9	6.2	6.2	6.5	---	6.1	6.5	6.2	6.3	6.4	4.9	---	6.6
10	6.1	5.8	6.3	---	6.0	6.3	6.3	6.1	6.4	5.6	---	6.6
11	6.2	5.9	6.4	---	6.4	6.3	6.1	6.1	6.3	6.0	---	6.6
12	6.4	5.9	5.4	---	6.4	6.3	6.2	6.0	6.3	5.9	---	6.6
13	6.4	6.4	5.7	6.1	6.4	6.4	6.2	6.0	6.2	5.8	---	6.6
14	6.4	6.4	5.7	6.2	6.4	6.4	6.3	6.0	6.2	6.0	---	6.8
15	6.4	6.4	5.8	6.4	6.5	6.4	6.6	5.9	6.1	6.0	---	6.7
16	6.4	6.2	6.3	6.4	6.6	6.6	6.2	6.4	6.0	6.3	6.5	6.7
17	6.3	6.3	5.1	6.3	6.6	6.6	6.3	5.9	6.0	6.2	6.4	6.7
18	6.2	6.2	5.4	6.2	6.4	6.7	6.2	6.3	5.8	6.6	6.2	6.7
19	6.2	6.1	5.8	6.1	6.4	6.8	6.2	6.6	5.8	6.4	6.3	6.5
20	6.3	5.9	5.8	6.1	6.3	6.7	6.3	6.6	5.9	6.4	6.4	6.4
21	6.4	6.1	5.3	---	6.2	6.7	6.3	6.5	5.7	6.2	6.4	6.4
22	6.5	5.8	5.6	---	6.2	6.6	6.3	6.6	5.4	6.4	6.4	6.7
23	6.6	6.0	5.8	---	6.2	6.5	6.3	6.6	5.5	6.5	6.5	6.8
24	6.6	5.8	6.1	---	6.3	6.4	6.8	6.7	5.8	6.7	6.6	6.6
25	6.5	5.5	6.1	---	6.3	6.6	6.5	6.6	6.1	6.7	6.5	6.7
26	6.5	5.8	6.1	---	6.3	6.6	6.4	6.5	6.2	6.5	6.5	6.8
27	6.5	5.9	6.1	---	6.3	6.6	6.6	6.4	5.8	6.6	6.5	6.7
28	6.5	6.4	6.0	---	6.3	6.7	6.6	6.4	---	6.6	6.5	6.7
29	6.4	6.1	6.0	---	---	6.7	6.6	6.5	---	6.4	6.5	6.7
30	6.4	4.9	6.2	---	---	6.6	6.7	6.4	---	6.4	6.5	6.7
31	6.3	---	6.2	---	---	6.5	---	5.7	---	6.4	6.5	---
MEAN	6.3	6.1	5.9	6.2	6.3	6.5	6.4	6.4	6.1	6.1	6.4	6.6

WTR YR 1983 MEAN 6.3 MAX 6.8 MIN 4.9

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	13.0	8.0	5.0	4.5	5.0	7.5	15.0	16.5	24.5	26.5	24.0
2	17.0	14.0	9.0	4.5	5.5	6.0	9.0	14.5	16.5	26.0	---	23.0
3	17.5	14.5	10.0	4.5	5.5	5.5	8.5	14.5	16.0	26.5	---	23.0
4	18.0	12.5	11.0	2.5	5.0	7.0	8.0	14.0	16.5	26.0	---	23.5
5	17.0	10.0	11.5	2.0	---	9.0	9.0	15.0	17.5	26.0	---	24.0
6	18.0	8.5	11.0	2.5	---	11.0	9.5	15.5	17.5	25.0	---	25.0
7	19.0	8.0	9.5	3.5	---	11.5	10.5	17.0	18.5	23.0	---	25.0
8	19.5	7.5	8.5	3.5	2.5	12.0	10.5	16.5	18.5	22.5	---	23.0
9	20.0	8.0	7.0	4.0	2.0	11.0	9.5	14.5	18.5	22.5	---	22.0
10	20.0	8.0	5.5	---	2.5	9.0	10.5	14.0	19.0	23.5	---	22.0
11	20.0	10.0	5.0	4.5	2.0	7.0	9.5	14.0	20.0	23.5	---	23.0
12	18.0	10.5	4.0	4.0	1.5	6.0	10.0	15.5	20.5	24.0	---	23.5
13	17.0	9.0	2.5	3.5	2.0	6.0	10.5	16.5	21.5	25.0	---	23.0
14	15.5	7.0	1.5	3.0	2.0	7.0	11.0	18.0	22.0	26.0	---	21.0
15	14.5	6.5	2.5	3.0	2.5	8.5	10.5	19.0	23.0	26.5	---	19.5
16	13.5	5.5	5.0	2.0	3.0	9.0	9.5	15.0	23.0	27.0	23.5	19.5
17	11.5	6.0	4.5	2.0	3.5	9.0	9.0	14.5	23.0	27.0	23.5	19.5
18	11.0	7.0	4.0	2.0	4.0	9.5	8.0	14.5	22.5	26.0	24.5	20.0
19	11.5	7.5	4.0	2.0	4.5	9.0	7.0	14.5	22.5	26.0	24.5	20.5
20	11.5	8.5	4.5	3.0	4.5	9.0	7.0	15.0	23.0	27.0	26.0	21.0
21	11.0	9.5	4.0	---	5.5	8.5	7.5	15.5	22.5	28.0	27.0	19.5
22	10.0	10.0	3.5	---	6.0	6.0	9.0	16.0	22.0	28.5	27.5	16.5
23	9.0	11.0	4.0	1.5	7.0	5.0	10.5	17.0	23.0	28.5	27.0	15.0
24	8.5	10.5	5.0	1.0	6.5	5.0	10.0	17.5	23.0	28.0	26.5	14.0
25	8.0	8.5	6.0	1.5	6.0	5.0	10.0	17.5	24.0	26.5	26.5	13.5
26	8.0	7.5	8.0	---	5.0	5.5	11.5	17.0	24.5	25.5	27.0	14.5
27	8.0	7.0	9.0	1.5	4.5	6.5	13.0	16.5	24.5	25.5	27.0	15.0
28	8.5	7.0	10.0	3.0	5.0	7.0	15.0	16.0	24.5	25.5	26.0	15.5
29	8.5	7.5	9.5	3.5	---	6.5	15.0	16.5	24.0	26.0	25.5	16.0
30	10.0	7.5	8.0	4.5	---	6.5	15.0	16.5	24.0	26.5	25.5	15.0
31	11.0	---	6.5	4.0	---	6.5	---	17.0	---	26.5	25.0	---
MEAN	14.0	9.0	6.5	3.0	4.0	7.5	10.0	16.0	21.0	26.0	26.0	20.0

WTR YR 1983 MEAN 13.5 MAX 28.5 MIN 1.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	7.2	9.7	9.5	9.6	12.2	11.1	9.3	8.4	6.9	6.0	6.1
2	8.8	6.3	9.6	10.0	10.7	12.0	10.7	9.2	8.5	6.9	---	6.5
3	8.4	5.6	9.3	9.5	10.4	11.8	10.4	8.7	8.4	6.8	---	6.5
4	8.0	5.9	9.0	10.8	10.4	11.6	10.7	8.5	8.2	6.7	---	6.4
5	7.9	8.0	8.8	10.6	---	11.1	10.8	8.4	8.2	6.5	---	6.2
6	7.8	9.5	8.8	10.5	---	10.6	10.7	8.4	7.9	6.3	---	6.0
7	7.5	10.1	9.2	10.1	---	10.2	10.4	8.3	8.1	7.8	---	5.8
8	7.1	10.3	9.7	10.0	11.7	9.7	9.9	8.2	8.0	7.7	---	5.7
9	6.4	10.4	9.8	9.6	11.7	9.7	9.8	8.9	8.3	7.6	---	5.7
10	6.1	10.3	10.0	---	13.6	10.2	9.2	9.7	8.2	7.1	---	5.7
11	5.9	10.0	10.1	10.1	14.1	10.6	9.1	9.8	8.0	6.9	---	5.5
12	6.4	9.6	10.1	10.0	13.9	11.1	9.1	9.6	7.9	6.8	---	6.1
13	6.9	9.7	10.6	10.9	13.5	11.2	8.7	9.3	7.7	6.6	---	5.9
14	7.4	10.2	10.8	11.3	13.2	11.0	8.6	8.8	7.5	6.3	---	5.7
15	7.9	10.3	10.7	11.0	12.7	10.7	8.8	8.5	7.2	6.3	---	6.4
16	8.4	10.5	9.8	11.0	12.4	10.6	9.3	9.3	7.5	6.4	7.2	6.9
17	8.7	10.4	9.7	10.7	10.5	10.4	9.3	9.6	7.5	6.9	7.0	6.7
18	9.1	9.8	9.8	10.4	11.0	10.2	9.5	9.7	7.5	6.5	6.8	6.6
19	9.1	9.4	9.9	10.2	10.9	10.0	9.6	9.7	7.5	7.2	6.7	6.9
20	9.1	9.1	9.7	9.3	11.0	10.1	10.1	9.5	7.5	7.1	6.7	6.9
21	9.0	8.8	9.8	---	10.9	9.9	10.1	9.1	7.7	6.8	6.5	7.0
22	9.3	9.0	10.0	---	10.7	10.6	10.0	9.0	7.8	6.6	6.2	7.0
23	9.7	8.7	10.0	10.8	10.3	11.0	9.5	8.7	7.6	6.7	6.0	7.7
24	10.1	8.6	9.8	11.1	11.4	11.1	9.3	8.2	7.4	6.6	5.8	7.9
25	10.0	9.4	9.5	10.9	11.8	11.3	9.5	8.1	7.2	6.5	6.0	8.1
26	9.9	9.7	9.0	---	12.2	11.2	9.7	8.2	7.0	6.9	6.1	8.2
27	9.9	9.7	8.8	11.2	12.4	10.9	9.5	8.6	6.8	7.1	5.8	8.0
28	10.0	9.8	8.4	10.3	12.3	10.5	9.0	8.6	6.7	6.9	5.8	7.8
29	9.7	9.4	8.5	9.8	---	10.7	8.9	8.5	6.6	6.7	6.0	7.5
30	9.0	9.7	9.0	9.3	---	11.5	9.0	8.4	6.6	6.5	6.1	7.5
31	8.3	---	9.3	10.0	---	11.3	---	8.4	---	6.3	6.1	---
MEAN	8.4	9.2	9.6	10.3	11.7	10.8	9.7	8.9	7.7	6.8	6.3	6.7

WTR YR 1983 MEAN 8.9 MAX 14.1 MIN 5.5

03219500 SCIOTO RIVER NEAR PROSPECT, OH

LOCATION.--Lat 40°25'10", long 83°11'50", Delaware County, Hydrologic Unit 05060001, on downstream side of pier of Hoskins Bridge, 1.5 mi (2.4 km) upstream from Ottawa Creek, 2.0 mi (3.2 km) south of Prospect, and 2.5 mi (4.0 km) downstream from Patton Run.

DRAINAGE AREA.--567 mi² (1,469 km²).

PERIOD OF RECORD.--July 1925 to October 1932, October 1939 to current year. Published as "at Prospect" 1925-32 Gage-height records collected in this vicinity since 1915 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 886.9 ft (270.33 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). July 24, 1925, to Oct. 31, 1932, nonrecording gage at site 2.5 mi (4.0 km) upstream at datum 4.8 ft (1.46 m) higher. Oct. 16 to Dec. 5, 1939, nonrecording gage at present site and datum.

REMARKS.--Records fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1951 to 1953.

AVERAGE DISCHARGE.--51 years, 454 ft³/s (12.86 m³/s), 10.87 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) Mar. 22, 1927, gage-height, 15.0 ft (4.57 m), from graph based on gage readings at site and datum then in use, and Jan. 21, 1959, gage height, 15.30 ft (4.663 m); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 13, 1953.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 21.1 ft (6.43 m), discharge, 27,000 ft³/s (765 m³/s), computed by Franklin County Conservancy District, at site and datum used 1925-32.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 5,500 ft³/s (156 m³/s) May 4, gage height 11.09 ft (3.380 m) above base of 3,600 ft³/s (102 m³/s); minimum daily discharge 11 ft³/s (0.31 m³/s) Oct. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	21	425	679	135	110	156	1330	244	345	22	16
2	14	26	292	453	174	109	158	2710	199	453	22	16
3	13	25	210	354	543	109	239	4330	170	467	19	17
4	12	28	166	292	976	104	442	5390	158	330	17	19
5	11	25	138	246	711	100	453	5250	149	251	19	16
6	11	22	130	215	415	96	345	4160	143	188	19	14
7	12	26	120	205	345	97	354	2410	140	176	17	14
8	19	28	109	190	278	101	456	1240	130	140	16	23
9	21	24	100	172	226	125	571	1040	120	104	16	26
10	18	21	90	156	195	151	1290	1000	106	88	16	26
11	17	21	85	154	186	168	1710	721	90	74	15	21
12	14	24	77	154	166	152	1590	527	79	67	17	18
13	14	50	67	149	135	138	1040	428	72	60	15	17
14	13	47	70	135	133	133	889	360	66	51	15	15
15	13	37	65	126	135	128	1640	336	63	43	14	14
16	13	31	389	110	138	123	2170	333	60	38	14	13
17	12	28	1030	104	151	113	1990	369	59	35	14	19
18	12	25	1050	100	192	104	1160	330	59	55	14	19
19	12	21	734	93	229	104	716	267	79	51	17	14
20	12	21	757	87	222	112	523	244	382	48	16	13
21	13	50	725	84	199	145	415	236	801	45	15	19
22	13	115	523	81	180	312	345	246	830	54	15	33
23	12	125	385	96	170	508	300	294	467	62	14	20
24	12	190	504	115	164	339	270	336	236	44	14	17
25	13	229	613	145	158	251	241	309	152	36	14	15
26	13	229	539	166	142	208	219	254	117	38	14	15
27	13	229	753	162	126	182	197	231	92	35	15	14
28	13	239	1700	140	113	180	190	212	82	28	16	14
29	14	379	1940	125	---	184	190	192	182	24	16	13
30	15	482	1730	125	---	188	241	210	360	21	15	13
31	16	---	1380	130	---	168	---	241	---	21	16	---
TOTAL	425	2818	16896	5543	6937	5042	20500	35536	5887	3472	498	523
MEAN	13.7	93.9	545	179	248	163	683	1146	196	112	16.1	17.4
MAX	21	482	1940	679	976	508	2170	5390	830	467	22	33
MIN	11	21	65	81	113	96	156	192	59	21	14	13
CFSM	.02	.17	.96	.32	.44	.29	1.21	2.02	.35	.20	.03	.03
IN.	.03	.18	1.11	.36	.46	.33	1.34	2.33	.39	.23	.03	.03

CAL YR 1982 TOTAL 205474 MEAN 563 MAX 5060 MIN 11 CFSM .99 IN 13.48
WTR YR 1983 TOTAL 104077 MEAN 285 MAX 5390 MIN 11 CFSM .50 IN 6.83

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 (5.5 km) downstream from Fulton Creek, 0.7 mi (1.1 km) upstream from Moors Run, and 1.2 mi (1.9 km) north of Warrensburg.

DRAINAGE AREA.--83.2 mi^2 (215 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 870 ft (265 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) June 20, 1983, gage height 11.60 ft (3.54 m); minimum, no flow many days during 1982, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft^3/s (14.2 m^3/s) and maximums (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 29	0600	677	19.2	9.17	2.795	May 2	1445	1,240	35.1	10.28	3.133
Apr. 15	2315	526	14.9	8.78	2.676	June 20	0700	*2.190	62.0	*11.60	3.536

Minimum discharge, No flow many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	39	62	25	13	23	520	25	71	.89	.00
2	.00	.00	22	47	49	13	25	1060	19	90	.70	.00
3	.00	.05	13	38	203	13	47	1070	16	70	.57	.00
4	.00	.13	8.5	32	199	13	88	822	13	46	.57	.00
5	.00	.18	7.1	30	94	14	66	509	11	41	.63	.00
6	.00	.18	5.5	23	61	14	50	201	10	44	.63	.00
7	.00	.18	4.2	22	47	15	57	116	9.0	32	.52	.00
8	.00	.18	3.5	20	37	15	103	86	8.5	22	.38	.00
9	.00	.18	4.6	18	33	15	115	115	9.6	15	.28	.00
10	.00	.18	7.1	17	27	14	326	86	9.6	11	.10	.00
11	.00	.25	5.9	16	25	14	310	56	8.0	8.5	.02	.00
12	.00	.31	4.2	15	23	13	129	44	7.5	7.5	.00	.00
13	.00	.34	3.5	14	21	13	96	34	6.7	7.1	.00	.00
14	.00	.34	3.2	13	20	13	148	28	5.5	6.2	.00	.00
15	.00	.31	4.2	12	18	13	437	24	4.6	5.9	.00	.00
16	.00	.28	24	11	19	12	293	23	4.6	4.6	.00	.00
17	.00	.28	108	9.0	22	10	118	20	4.6	3.9	.00	.00
18	.00	.28	82	8.8	40	10	82	17	4.6	3.9	.00	.00
19	.00	.28	64	8.7	44	11	65	16	344	3.5	.00	.00
20	.00	.38	71	8.6	38	11	51	14	1800	3.0	.00	.00
21	.00	1.4	88	8.6	32	22	44	13	1130	2.5	.00	.00
22	.00	1.1	61	9.6	27	58	38	17	252	2.3	.00	.00
23	.00	.79	44	12	25	61	37	36	118	2.3	.00	.00
24	.00	1.0	38	23	23	40	35	45	73	2.3	.00	.00
25	.00	4.2	54	35	21	30	31	24	46	2.0	.00	.00
26	.00	6.7	60	32	17	25	28	23	34	1.6	.00	.00
27	.00	9.0	167	27	15	24	24	19	28	1.3	.00	.00
28	.00	10	473	24	14	29	21	17	22	1.1	.00	.00
29	.00	11	544	22	---	31	21	16	42	1.0	.00	.00
30	.00	32	163	21	---	29	38	15	113	1.0	.00	.00
31	.00	---	87	23	---	25	---	19	---	.89	.00	---
TOTAL	.00	81.50	2263.5	662.3	1219	633	2946	5105	4178.8	514.39	5.29	.00
MEAN	.000	2.72	73.0	21.4	43.5	20.4	98.2	165	139	16.6	.17	.000
MAX	.00	32	544	62	203	61	437	1070	1800	90	.89	.00
MIN	.00	.00	3.2	8.6	14	10	21	13	4.6	.89	.00	.00
CFSM	.000	.03	.88	.26	.52	.25	1.18	1.98	1.67	.20	.002	.000
IN.	.00	.04	1.01	.30	.55	.28	1.32	2.28	1.87	.23	.00	.00

WTR YR 1983 TOTAL 17608.78 MEAN 48.2 MAX 1800 MIN .00 CFSM .58 IN 7.87

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 (1.9 km) west of Bellepoint, 1.5 mi (2.4 km) upstream from mouth, and 2.3 mi (3.7 km) downstream from Blues Creek.

DRAINAGE AREA.--178 mi² (461 km²).

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 865.14 ft (263.695 m) 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.--Records fair. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--41 years, 153 ft³/s (4.333 m³/s) 11.67 in/yr (296 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft³/s (575 m³/s) Jan. 21, 1959, gage height, 13.85 ft (4.221 m), from rating curve extended above 14,000 ft³/s (396 m³/s); no flow Sept. 25, 26, 1944, Sept. 19, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 18.0 ft (5.49 m) occurred in March 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,500 ft³/s (70.8 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 3	0215	3,010	85.2	6.96	2.121	June 20	0945	*5,750	116	*8.99	2.740

Minimum daily discharge, 0.67 ft³/s (0.019 m³/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.2	83	96	71	20	41	2450	47	83	3.4	9.0
2	4.0	4.5	51	75	228	20	44	2650	31	141	2.6	6.7
3	2.9	5.0	36	62	778	19	179	2680	26	95	2.1	3.3
4	2.0	6.3	28	51	403	18	256	1540	27	52	3.0	2.2
5	1.5	7.8	23	42	140	18	135	540	25	98	4.0	1.9
6	1.2	7.5	23	36	102	18	99	305	20	139	4.2	2.6
7	1.9	6.6	24	34	78	19	174	174	19	60	4.8	2.1
8	9.8	6.0	33	30	61	19	341	149	16	29	3.1	1.4
9	13	5.2	24	27	52	20	382	197	15	19	2.6	1.6
10	6.9	4.5	19	26	47	19	1090	129	14	15	1.9	2.9
11	7.5	5.0	18	29	45	21	547	91	12	13	2.3	2.3
12	5.0	7.8	17	28	39	22	260	72	10	12	2.8	2.2
13	2.8	7.8	14	26	33	20	240	60	11	10	2.4	2.7
14	3.6	7.5	13	24	28	20	577	54	10	9.0	2.7	1.5
15	4.2	7.8	42	22	32	20	1170	191	10	8.6	2.4	.87
16	3.6	6.0	447	19	34	19	447	250	10	7.8	2.1	1.5
17	3.2	5.0	458	16	61	17	219	100	10	8.2	1.3	2.9
18	2.8	7.5	151	16	90	17	148	64	9.9	12	1.6	4.3
19	2.8	7.5	285	15	72	20	112	52	522	14	1.5	3.2
20	3.2	8.2	397	15	55	22	87	54	4200	16	2.6	1.8
21	2.1	52	221	14	44	50	71	42	1230	12	2.5	3.6
22	2.4	76	114	19	39	166	50	88	217	11	1.8	21
23	3.6	66	80	47	35	101	51	165	111	12	1.7	7.6
24	4.0	62	109	81	32	63	45	130	73	7.8	1.8	5.6
25	4.0	55	125	109	30	46	38	76	53	6.3	.67	5.5
26	4.0	48	136	85	26	35	34	68	35	6.0	2.2	4.7
27	4.0	44	868	63	21	31	31	56	28	6.0	3.9	3.7
28	3.6	130	1600	47	19	49	54	43	26	5.5	4.6	2.9
29	4.2	173	842	37	---	74	52	42	30	5.0	5.0	4.3
30	4.2	160	259	51	---	67	248	71	72	5.2	4.8	4.9
31	6.0	---	140	72	---	50	---	63	---	4.7	5.8	---
TOTAL	129.9	994.7	6680	1314	2695	1120	7242	12746	6919.9	923.1	88.17	120.77
MEAN	4.19	33.2	215	42.4	96.3	36.1	241	411	231	29.8	2.84	4.03
MAX	13	173	1600	109	778	166	1170	2680	4200	141	5.8	21
MIN	1.2	4.5	13	14	19	17	31	42	9.9	4.7	.67	.87
CFSM	.02	.19	1.21	.24	.54	.20	1.35	2.31	1.30	.17	.02	.02
IN.	.03	.21	1.40	.27	.56	.23	1.51	2.66	1.45	.19	.02	.03

CAL YR 1982 TOTAL 63022.10 MEAN 173 MAX 3280 MIN 1.2 CFSM .97 IN 13.17
WTR YR 1983 TOTAL 40973.54 MEAN 112 MAX 4200 MIN .67 CFSM .63 IN 8.56

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

LOCATION.--Lat 40°08'36", long 83°07'14", Delaware County, Hydrologic Unit 05060001, on left bank, 0.2 mi (0.3 km) north of county line, 0.8 mi (1.3 km) downstream from O'Shaughnessy Dam, and 3.0 mi (4.8 km) north of Dublin.

DRAINAGE AREA.--980 mi^2 (2,538 km^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 (236.220 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi (1.3 km) upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mi (1.3 km) upstream (see station 03220500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--62 years, 787 ft^3/s (22.29 m^3/s)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s (1,560 m^3/s) Jan. 22, 1959, gage height, 22.04 ft (6.718 m), from floodmark; minimum daily, 0.4 ft^3/s (0.011 m^3/s) Nov. 8, 1924.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 24.6 ft (7.50 m), discharge, 74,500 ft^3/s (2,110 m^3/s) at Griggs Dam, 9 mi (4 km) downstream from gage, computed by C.E. Sherman, Ohio State University.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,980 ft^3/s (283 m^3/s) May 3, gage height, 10.29 ft (3.136 m); minimum daily, 5.0 ft^3/s (0.14 m^3/s) Nov. 15,16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	74	624	1150	300	188	281	5300	422	622	72	54
2	27	64	448	745	552	181	305	7970	356	716	70	54
3	28	54	331	574	1540	178	548	9530	308	722	69	53
4	32	52	259	473	1830	176	852	8500	292	561	69	54
5	33	52	219	406	1230	171	834	6880	261	503	69	54
6	33	52	197	354	770	173	657	4860	247	463	67	54
7	37	52	176	333	603	171	714	3070	225	356	67	54
8	38	48	180	304	494	177	1130	1810	215	275	66	54
9	38	40	163	279	409	184	1380	1520	189	220	66	53
10	38	40	129	272	353	225	2890	1420	182	173	66	52
11	48	40	167	265	333	282	2950	1060	157	140	66	54
12	54	24	99	255	298	218	2300	803	138	128	66	53
13	61	5.4	85	235	259	212	1720	658	124	119	65	67
14	61	5.4	85	228	243	215	1840	594	112	110	64	87
15	61	5.0	180	195	250	208	3540	855	107	97	64	88
16	61	5.0	879	164	254	193	3190	888	113	107	64	88
17	59	14	1430	140	281	180	2670	650	110	107	63	85
18	59	40	1460	126	354	180	1750	601	99	109	62	85
19	59	40	1420	123	421	189	1120	488	711	109	61	85
20	57	25	1410	126	402	193	831	400	7620	110	64	82
21	57	8.0	1190	130	461	243	670	397	4290	112	64	69
22	57	7.6	862	154	203	465	564	491	1800	100	64	50
23	54	6.8	630	185	278	757	501	673	1020	73	64	48
24	54	7.2	640	255	286	600	490	659	706	76	63	48
25	61	8.5	836	340	275	416	353	597	553	74	62	48
26	74	14	859	364	228	352	351	472	531	74	60	44
27	74	18	1920	329	217	321	330	425	321	74	59	48
28	74	136	4080	271	201	332	340	390	100	74	58	48
29	74	562	3790	251	---	348	339	391	99	74	56	46
30	74	674	2900	281	---	343	624	416	286	74	55	46
31	71	---	2090	314	---	317	---	402	---	74	56	---
TOTAL	1636	2173.9	29738	9621	13325	8388	36074	63170	21694	6626	1981	1805
MEAN	52.8	72.5	959	310	476	271	1202	2038	723	214	63.9	60.2
MAX	74	674	4080	1150	1830	757	3540	9530	7620	722	72	88
MIN	27	5.0	85	123	201	171	281	390	99	73	55	44

CAL YR 1982 TOTAL 360914.9 MEAN 989 MAX 8770 MIN 5.0
WTR YR 1983 TOTAL 196231.9 MEAN 538 MAX 9530 MIN 5.0

03223000 OLENTANGY RIVER AT CLARIDON, OH

LOCATION.--Lat 40°34'58", long 82°59'20", in NW 1/4 sec. 26, T.5 S., R.16 E., Marion County, Hydrologic Unit 05060001, on left bank 900 ft (274 m) downstream from bridge on State Highway 95, 0.5 mi (0.8 km) east of Claridon, 0.8 mi (1.3 km) downstream from Otter Creek, and 1.4 mi (2.3 km) upstream from Beaver Run.

DRAINAGE AREA.--157 mi^2 (407 km^2).

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

REVISED RECORDS.--WSP 1235: 1947, 1948(P). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 961.72 ft (293.132 m) National Geodetic Vertical Datum of 1929. (levels by Corps of Engineers). Prior to Aug. 18, 1969 water-stage recorder at site 1,000 ft (305 m) upstream at same datum.

REMARKS.--Records good except those below 10.0 ft^3/s (0.28 m^3/s) and those for the winter period, which are fair. Small diversion at gage for irrigation of golf course. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--37 years, 153 ft^3/s (4.333 m^3/s), 13.23 in/yr (336 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft^3/s (422 m^3/s) Jan. 22, 1959, gage height, 16.77 ft (5.111 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of contracted-opening measurement of peak flow; no flow Oct. 2-26, 1953, Sept. 14-22, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft^3/s (42.5 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 16	1930	1570	44.5	8.52	2.597	May 3	0100	*1930	54.7	*9.36	2.853
Dec. 28	1000	1520	43.0	8.38	2.554						

Minimum daily discharge, 1.9 ft^3/s (0.05 m^3/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	14	222	152	137	45	62	991	54	53	5.7	34
2	6.6	22	147	125	223	45	55	1490	45	95	5.7	22
3	5.0	44	114	107	774	43	310	1740	41	392	7.0	10
4	3.0	49	94	89	536	41	440	1530	41	507	6.8	6.0
5	3.5	44	81	80	189	40	248	793	41	225	6.0	4.4
6	4.0	35	103	77	146	39	162	335	40	148	5.5	3.1
7	3.1	27	126	74	119	37	192	211	36	70	5.5	23
8	9.9	22	98	67	97	39	288	184	33	47	4.9	52
9	12	19	76	62	83	37	252	257	28	36	3.8	22
10	11	17	67	62	87	36	861	178	24	30	3.7	11
11	10	18	62	81	78	36	611	127	22	25	4.0	6.6
12	7.2	66	52	96	66	38	263	102	21	21	4.0	4.6
13	5.8	166	55	85	69	48	190	87	20	18	3.8	3.2
14	5.5	96	46	74	70	58	296	77	19	16	5.1	2.4
15	4.8	52	145	55	69	55	898	77	19	14	3.8	2.1
16	4.4	37	1330	50	62	50	592	101	34	12	3.2	2.5
17	4.1	30	1310	45	138	44	255	99	26	12	3.0	6.4
18	4.4	27	583	42	166	42	177	72	21	29	2.6	17
19	4.8	22	588	37	116	47	137	65	20	57	2.6	11
20	4.6	23	1090	33	98	56	110	67	20	26	2.4	6.4
21	4.1	210	615	32	85	81	93	64	20	17	2.1	16
22	4.3	405	274	35	76	125	80	67	18	16	2.5	44
23	4.4	239	345	46	71	84	72	127	16	15	2.4	30
24	4.4	394	648	94	64	56	67	103	14	28	1.9	14
25	4.9	310	416	98	57	49	60	80	13	17	3.0	8.7
26	4.9	191	335	80	50	44	55	69	12	12	2.5	6.0
27	4.8	335	608	68	46	44	51	67	11	9.2	3.7	4.9
28	5.1	374	1460	69	45	62	48	57	14	7.8	22	4.3
29	5.3	735	1050	53	---	138	48	52	44	7.0	7.6	3.7
30	5.5	449	328	81	---	96	97	73	55	6.2	11	3.1
31	5.5	---	199	180	---	72	---	71	---	6.0	11	---
TOTAL	175.6	4472	12667	2329	3817	1727	7080	9413	822	1974.2	158.8	384.4
MEAN	5.66	149	409	75.1	136	55.7	236	304	27.4	63.7	5.12	12.8
MAX	12	735	1460	180	774	138	898	1740	55	507	22	52
MIN	3.0	14	46	32	45	36	48	52	11	6.0	1.9	2.1
CFSM	.04	.95	2.61	.48	.87	.36	1.50	1.94	.18	.41	.03	.08
IN.	.04	1.06	3.00	.55	.90	.41	1.68	2.23	.19	.47	.04	.09

CAL YR 1982 TOTAL 77558.6 MEAN 212 MAX 1950 MIN 3.0 CFSM 1.35 IN 18.38
WTR YR 1983 TOTAL 45020.0 MEAN 123 MAX 1740 MIN 1.9 CFSM .78 IN 10.67

03225500 OLENTANGY RIVER NEAR DELAWARE, OH

LOCATION.--Lat 40°21'18", long 83°04'02", in NE 1/4 T.5 N., R.19 W., Delaware County, Hydrologic Unit 05060001, on left bank 500 ft (152 m) upstream from highway bridge, 1,000 ft (305 m) downstream from Delaware Dam, 1,300 ft (396 m) upstream from Norfolk and Westerm Railway bridge, and 4.0 mi (6.4 km) north of Delaware.

DRAINAGE AREA.--393 mi² (1,018 km²).

PERIOD OF RECORD.--October 1923 to September 1934, April 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.58 ft (243.712 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1950, water-stage recorder at site 500 ft (152 m) downstream at datum 76.7 ft (23.38 m) higher.

REMARKS.--Records good. Flow completely regulated by Delaware Lake since 1951 (see station 03225000). Water-quality data collected at this site 1965 to 1977. Water-temperature data collected 1946 to 1961.

AVERAGE DISCHARGE.--56 years, 351 ft³/s (9.940 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft³/s (399 m³/s) Mar. 21, 1927, gage height, 16.9 ft (5.15 m), site and datum then in use; minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 14-29, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,330 ft³/s (123 m³/s) May 6, gage height, 86.81 ft (26.460 m); minimum daily, 15 ft³/s (0.42 m³/s) June 26-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	53	1060	138	400	41	98	175	253	119	38	23
2	26	114	423	141	493	41	55	146	164	136	40	19
3	26	116	305	292	1400	58	59	64	83	135	39	18
4	27	215	246	360	1630	65	62	161	64	326	39	18
5	27	305	246	286	930	65	150	1950	63	671	39	18
6	28	305	325	251	559	66	193	3540	62	456	39	18
7	29	299	360	201	289	102	252	4180	62	168	38	18
8	67	173	299	173	275	119	626	4090	62	70	38	18
9	116	114	210	173	237	162	826	3830	62	44	38	18
10	116	114	162	148	205	138	1040	1550	62	44	38	18
11	116	114	138	162	171	119	1400	307	62	44	38	18
12	116	114	138	173	155	119	1600	251	62	27	37	19
13	116	114	138	197	155	89	1570	168	62	22	38	19
14	116	114	138	169	155	64	877	132	62	22	38	19
15	45	185	166	155	155	87	1270	132	62	22	38	18
16	24	220	1850	155	155	98	1890	247	45	22	38	19
17	24	220	2410	155	155	98	1320	299	37	22	38	18
18	24	215	1660	108	290	100	802	299	37	22	38	18
19	24	215	1660	65	353	100	344	228	39	22	38	19
20	25	215	2840	65	353	100	271	128	39	22	38	19
21	25	215	2790	65	229	175	292	97	227	28	38	19
22	25	1110	918	65	155	206	218	100	123	33	34	18
23	26	1550	368	67	155	205	148	210	123	33	32	18
24	26	1530	801	262	155	205	148	593	63	33	32	19
25	26	1510	1160	353	155	133	145	508	21	123	32	19
26	26	1010	1260	274	155	99	145	250	15	75	32	19
27	25	771	1300	158	155	98	145	126	15	32	32	19
28	25	778	2620	119	76	100	116	126	21	32	32	19
29	25	2050	3220	119	---	169	103	127	48	32	32	19
30	24	2100	1860	123	---	201	121	129	69	32	32	19
31	24	---	629	200	---	201	---	217	---	32	32	---
TOTAL	1395	16158	31700	5372	9750	3623	16296	24360	2169	2901	1125	560
MEAN	45.0	539	1023	173	348	117	543	786	72.3	93.6	36.3	18.7
MAX	116	2100	3220	360	1630	206	1890	4180	253	671	40	23
MIN	24	53	138	65	76	41	55	64	15	22	32	18

CAL YR 1982 TOTAL 174955 MEAN 479 MAX 3220 MIN 21
WTR YR 1983 TOTAL 115409 MEAN 316 MAX 4180 MIN 15

03226800 OLENTANGY RIVER NEAR WORTHINGTON, OH

LOCATION.--Lat 40°06'37", long 83°01'55", in NW 1/4 T.2N., R.18W., Franklin County, Hydrologic Unit 05060001, on left bank 350 ft (107 m) downstream from Interstate Highway 270 bridge, 1.5 mi (2.4 km) northwest of Worthington and 2.8 mi (4.5 km) upstream from Rush Run.

DRAINAGE AREA.--497 mi^2 (1,287 km^2).

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WSP 1625: 1952(M). WSP 1908. Drainage area. WRD Ohio 1972: 1971(M). WRD-OH-80-1: 1976 (M), 1978 (M).

GAGE.--Water-stage recorder. Datum of gage is 743.20 ft (226.527 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Delaware Lake 21 mi (34 km) upstream (see station 03225000). Water-quality data collected at this site 1965 to 1977. Water-temperature records collected 1955 to 1968. Daily suspended sediment data collected 1978 to 1981.

AVERAGE DISCHARGE.--28 years, 453 ft^3/s (12.83 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Jan. 21, 1959, gage height, 15.68 ft (4.779 m), from high-water mark in well; minimum daily, 8.5 ft^3/s (0.24 m^3/s) Sept. 26, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1952 reached a stage of 15.3 ft (4.66 m), discharge, 15,000 ft^3/s (428 m^3/s), from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,130 ft^3/s (117 m^3/s) May 6, gage height 7.09 ft (2.161 m); minimum daily 14 ft^3/s (0.40 m^3/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	34	1260	222	486	72	218	1740	307	363	38	63
2	29	118	566	200	724	62	149	1670	274	342	38	32
3	29	164	398	247	1230	59	562	1420	167	219	44	20
4	30	171	305	386	1610	79	296	723	123	244	38	16
5	30	353	305	359	969	86	213	1420	107	558	40	16
6	31	349	344	292	615	89	302	3130	102	671	43	15
7	35	346	396	275	408	90	442	4000	99	297	43	19
8	87	327	383	212	271	139	753	3830	94	157	40	31
9	115	138	252	202	308	147	1240	3770	92	76	40	20
10	147	135	233	209	247	186	1460	2040	89	66	40	15
11	138	142	174	196	234	146	1310	442	87	64	41	16
12	135	168	165	218	184	137	1500	322	83	64	43	14
13	132	150	160	215	179	139	1480	288	83	49	41	17
14	132	139	161	227	180	94	1360	196	83	33	35	15
15	132	141	285	185	182	84	1280	479	78	29	35	15
16	54	266	1670	174	182	112	1860	531	76	28	35	18
17	28	270	2610	176	194	114	1430	425	64	35	36	21
18	26	270	1480	270	235	118	871	385	56	219	37	20
19	28	267	1970	104	360	132	551	353	413	87	37	17
20	28	288	2400	96	363	123	316	261	531	53	37	21
21	29	386	2890	96	330	156	349	160	337	41	37	36
22	26	689	1360	116	187	247	331	297	244	64	36	38
23	26	1400	356	136	188	235	210	302	178	60	34	25
24	28	1390	705	210	181	231	199	467	160	49	29	20
25	29	1330	1060	476	178	209	193	621	76	43	29	18
26	28	1150	1230	348	173	118	189	413	51	164	29	17
27	29	733	1980	250	173	125	186	192	31	60	29	17
28	29	920	2530	148	166	158	214	174	99	38	27	17
29	29	1370	3280	146	---	158	161	203	115	34	28	16
30	29	2230	2100	202	---	237	311	244	192	34	29	16
31	30	---	943	307	---	237	---	223	---	35	47	---
TOTAL	1706	15834	33951	6900	10737	4319	19936	30721	4491	4276	1135	641
MEAN	55.0	528	1095	223	383	139	665	991	150	138	36.6	21.4
MAX	147	2230	3280	476	1610	247	1860	4000	531	671	47	63
MIN	26	34	160	96	166	59	149	160	31	28	27	14

CAL YR 1982 TOTAL 189399 MEAN 519 MAX 3280 MIN 14
WTR YR 1983 TOTAL 134647 MEAN 369 MAX 4000 MIN 14

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 (0.6 km) downstream from bridge on Frank Road, 2.8 mi (4.5 km) upstream from Scioto Big Run, and 5 mi (8 km) downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi² (4,219 km²).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

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 (207.264 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft (61 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by Griggs Reservoir 10.4 mi (16.7 km) upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi (32.8 km) upstream (see station 03220500), and Delaware Lake 35 mi (56 km) upstream from station (see station 03225000). Records include 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.--63 years, 1,390 ft³/s (39.36 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,200 ft³/s (1,930 m³/s) Jan. 22, 1959, gage height, 27.22 ft (8.297 m), from high-water mark in well, from rating curve extended above 46,000 ft³/s (1,300 m³/s); minimum daily, 47 ft³/s (1.33 m³/s) Sept. 6, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 25.9 ft (7.89 m), discharge, 138,000 ft³/s (3,910 m³/s), estimated by Franklin County Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s (371 m³/s) May 3, gage height, 16.40 ft (4.999 m); minimum daily, 138 ft³/s (3.91 m³/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	152	2390	2750	988	398	643	6630	796	1230	344	246
2	143	158	1380	1480	1190	320	755	10300	833	1260	213	176
3	142	315	928	1110	2130	319	1490	12500	717	1120	195	150
4	147	352	763	956	3940	312	1380	10500	669	977	197	140
5	145	361	699	1050	3080	337	1260	8720	503	1230	198	145
6	144	439	746	930	1970	358	1180	6900	474	1320	189	156
7	148	436	692	827	1430	363	1310	2090	437	901	177	145
8	165	443	665	790	1070	363	2380	1450	409	613	189	148
9	259	329	587	678	995	386	3450	1350	381	455	182	153
10	354	238	453	645	839	450	4810	1220	347	347	179	162
11	245	269	467	754	766	580	4750	1100	340	321	202	182
12	230	441	411	626	724	497	4250	1050	309	281	201	211
13	230	332	325	620	639	425	3690	1990	304	252	176	145
14	228	235	318	577	595	424	3650	2480	282	245	163	140
15	233	234	607	614	571	367	4810	1960	276	217	164	140
16	220	289	2510	583	583	372	5490	1560	340	185	168	167
17	164	354	4300	471	583	377	4610	1360	423	344	159	167
18	150	351	3320	492	614	391	3150	1210	326	578	172	142
19	147	352	4120	381	877	466	2160	1250	1030	331	170	148
20	156	503	3600	314	931	410	1450	937	6130	253	162	162
21	149	927	4550	309	904	502	1260	736	5870	220	154	508
22	147	1040	3900	320	752	651	1120	1170	2670	222	172	204
23	143	1630	1770	350	475	998	946	1680	1550	218	171	164
24	138	1730	1480	390	563	995	899	1350	1030	206	167	145
25	144	1560	1660	583	562	807	736	1400	865	191	171	142
26	142	1560	2320	943	518	623	674	1400	683	220	173	148
27	139	1010	2420	930	478	623	657	1000	660	277	186	145
28	143	1640	3200	784	466	708	650	742	550	204	425	140
29	148	1850	6600	571	---	613	650	742	635	190	265	142
30	141	3230	5500	565	---	669	1190	995	511	179	173	142
31	142	---	4700	784	---	674	---	784	---	182	235	---
TOTAL	5380	22760	67381	23177	29233	15778	65450	88556	30350	14769	6092	5105
MEAN	174	759	2174	748	1044	509	2182	2857	1012	476	197	170
MAX	354	3230	6600	2750	3940	998	5490	12500	6130	1320	425	508
MIN	138	152	318	309	466	312	643	736	276	179	154	140

CAL YR 1982 TOTAL 616339 MEAN 1689 MAX 12700 MIN 127
WTR YR 1983 TOTAL 374031 MEAN 1025 MAX 12500 MIN 138

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 (0.3 km) east of Central College, 0.4 mi (0.6 km) downstream from Hoover Dam, and 3 mi (5 km) southeast of Westerville.

DRAINAGE AREA.--190 mi² (492 km²).

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

REVISED RECORDS.--WSP 873: 1938. WSP 1435: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 815.16 ft (248.461 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow completely regulated by Hoover Reservoir since September 1954. (see station 03228400). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 188 ft³/s (5.324 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,800 ft³/s (674 m³/s) Jan. 21, 1959, gage height, 19.75 ft (6.020 m), from rating curve extended above 7,200 ft³/s (204 m³/s) on basis of computation of peak flow over Hoover Dam; no flow for many days in 1944 and 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,990 ft³/s (84.7 m³/s) May 1, gage height, 9.34 ft (2.847 m); minimum daily, 68 ft³/s (1.93 m³/s) Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	110	89	93	107	112	106	1820	126	123	122	136
2	127	128	105	78	111	91	105	2010	129	117	121	127
3	130	100	117	92	93	108	81	2090	134	113	144	126
4	123	107	117	86	105	119	94	1710	125	122	114	125
5	126	102	98	99	94	108	116	1890	115	120	141	127
6	112	102	94	87	101	107	122	1100	133	146	144	132
7	132	105	126	83	106	100	107	437	116	113	148	125
8	108	114	90	77	103	107	118	597	121	135	138	131
9	107	111	89	103	91	109	126	296	113	136	173	144
10	101	103	96	95	108	101	122	168	153	123	142	144
11	113	113	90	85	105	94	130	159	123	135	121	141
12	107	89	85	78	95	113	103	154	161	158	122	108
13	99	88	93	94	95	108	123	124	152	157	135	113
14	132	90	90	89	116	120	129	133	148	163	145	131
15	113	89	99	78	112	108	244	114	139	172	159	133
16	98	107	87	100	92	109	617	593	126	175	153	97
17	111	87	84	93	111	100	408	322	107	139	141	127
18	137	84	100	86	105	105	279	190	113	132	135	110
19	96	116	108	86	88	103	219	154	144	127	157	130
20	106	97	88	89	112	105	176	144	543	126	180	138
21	125	84	81	106	102	103	114	135	310	137	162	100
22	101	94	83	89	121	106	131	469	143	115	155	104
23	110	81	73	97	85	99	105	1130	138	134	140	116
24	106	91	74	117	110	103	183	340	141	120	168	110
25	114	80	77	111	112	109	100	174	134	129	161	111
26	104	83	68	89	92	105	134	164	139	161	166	121
27	112	85	91	106	98	93	126	134	134	179	149	116
28	111	103	84	114	113	108	113	128	120	149	94	134
29	107	104	78	94	---	101	138	122	123	151	125	118
30	104	116	82	109	---	105	185	147	158	165	136	125
31	104	---	72	96	---	111	---	161	---	129	115	---
TOTAL	3495	2963	2808	2899	2883	3270	4854	17309	4561	4301	4406	3700
MEAN	113	98.8	90.6	93.5	103	105	162	558	152	139	142	123
MAX	137	128	126	117	121	120	617	2090	543	179	180	144
MIN	96	80	68	77	85	91	81	114	107	113	94	97

CAL YR 1982 TOTAL 66586 MEAN 182 MAX 1890 MIN 68
WTR YR 1983 TOTAL 57449 MEAN 157 MAX 2090 MIN 68

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 (122 m) upstream of bridge on Lewis Center Road, 1,200 ft (366 m) downstream from outlet of Alum Creek dam, 0.3 mi (0.5 km) west of Africa, 2.8 mi (4.5 km) upstream from Westerville Reservoir outlet, and 4.2 mi (6.8 km) northwest of Westerville.

DRAINAGE AREA.--122 mi^2 (316 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft (243.840 m) National Geodetic Vertical Datum of 1929. (levels by Corps of Engineers). Oct. 17, 1973 to July 9, 1974 nonrecording gage at bridge 400 ft (121.920 m) downstream at same datum. Prior to Oct. 17, 1973 water-stage recorder 600 ft (182.880 m) downstream at datum 17.37 ft (5.294 m) higher.

REMARKS.--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 (3.257 m^3/s), 10 years (water years 1974-83), 107 ft^3/s (3.030 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft^3/s (174 m^3/s) Mar. 10, 1964, gage height, 13.95 ft (4.252 m), from graph based on gage readings, site and datum then in use; no flow at times 1963-65.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 5, 1963 reached a stage of 14.2 ft (4.33 m), from floodmarks, discharge, 6,460 ft^3/s (183 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft^3/s (55.8 m^3/s) May 6, gage height, 27.47 ft (8.373 m); minimum daily, 3.9 ft^3/s (0.110 m^3/s) Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	63	571	271	285	22	4.9	46	43	41	6.8	9.1
2	66	112	189	102	278	22	6.4	13	43	89	6.8	9.1
3	66	143	60	102	348	22	7.5	15	43	87	6.8	9.1
4	66	143	20	102	401	21	5.8	10	43	87	6.4	9.1
5	68	224	20	102	396	20	4.9	532	43	87	7.1	8.3
6	63	253	19	102	234	20	5.8	1600	47	87	6.8	7.9
7	63	253	19	100	50	20	7.1	1780	57	87	7.1	8.3
8	82	253	19	100	48	20	9.1	1710	47	87	6.8	8.7
9	87	145	68	100	48	20	11	1630	41	73	7.5	8.7
10	87	24	76	76	48	20	9.1	1050	41	19	6.1	8.3
11	87	23	48	48	48	21	19	361	29	19	4.1	8.3
12	89	17	48	48	48	21	43	243	12	19	6.1	8.7
13	89	11	47	48	48	20	106	91	13	19	8.3	8.7
14	116	11	46	38	48	20	221	91	13	19	8.3	8.7
15	136	11	65	26	47	20	577	124	14	17	7.9	8.7
16	136	10	489	26	47	20	699	267	13	9.1	8.3	8.3
17	136	10	712	26	47	13	319	285	11	10	8.3	7.9
18	102	9.5	560	26	46	6.4	43	189	11	131	8.3	7.9
19	133	9.5	387	26	46	6.1	43	116	29	192	8.3	7.9
20	133	9.1	612	26	44	6.1	43	87	102	124	8.3	7.9
21	138	10	719	26	44	5.8	41	87	120	40	8.7	8.3
22	100	356	719	26	44	5.8	41	110	122	40	8.3	7.5
23	58	560	308	26	47	5.5	41	159	122	40	8.3	7.1
24	57	230	100	27	47	5.2	41	157	122	40	8.7	7.1
25	63	32	100	27	46	4.9	41	110	89	30	9.1	7.1
26	66	32	100	27	46	4.4	41	91	25	24	8.7	6.8
27	65	32	500	27	46	3.9	41	56	9.5	13	8.7	5.8
28	65	34	719	51	30	5.2	41	43	9.5	6.4	9.1	6.1
29	65	449	719	65	---	5.8	41	43	9.5	6.4	8.7	6.1
30	65	706	600	65	---	5.2	46	43	9.5	6.4	8.7	6.1
31	65	---	453	212	---	4.9	---	43	---	6.4	9.1	---
TOTAL	2678	4175.1	9112	2074	2955	417.2	2599.6	11182	1333.0	1555.7	240.5	237.6
MEAN	86.4	139	294	66.9	106	13.5	86.7	361	44.4	50.2	7.76	7.92
MAX	138	706	719	271	401	22	699	1780	122	192	9.1	9.1
MIN	57	9.1	19	26	30	3.9	4.9	10	9.5	6.4	4.1	5.8

CAL YR 1982 TOTAL 45199.3 MEAN 124 MAX 1570 MIN 1.4
WTR YR 1983 TOTAL 38559.7 MEAN 106 MAX 1780 MIN 3.9

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 (0.3 km) downstream from Livingston Avenue bridge in Columbus, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--189 mi^2 (490 km^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 (223.629 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Alum Creek Lake 19 mi (31 km) upstream, since Aug. 1973. Water-quality data collected at this site 1960 to 1977. Sediment data collected 1960 to 1965.

AVERAGE DISCHARGE.--57 years, 172 ft^3/s (4.871 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s (748 m^3/s) Jan. 22, 1959, gage height, 19.59 ft (5.971 m) (from high-water mark in well), from rating curve extended above 17,000 ft^3/s (481 m^3/s) on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,110 ft^3/s (59.8 m^3/s) May 6, gage height, 5.61 ft (1.710 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) Aug. 22-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	65	786	472	315	43	26	786	80	142	116	45
2	62	67	360	134	454	36	142	900	68	160	35	24
3	67	179	116	125	443	35	287	900	56	122	22	17
4	69	187	60	122	485	35	119	370	100	168	18	14
5	71	171	53	122	460	33	69	365	80	196	19	12
6	69	278	73	119	414	36	64	1580	60	125	15	17
7	64	265	53	116	101	43	119	2080	56	113	13	12
8	80	257	45	113	73	39	325	2040	50	113	11	11
9	100	248	41	113	69	41	517	1950	46	110	9.9	11
10	130	55	98	125	67	41	425	1900	44	76	9.9	11
11	100	35	88	95	65	60	155	527	40	43	13	19
12	82	116	64	73	65	53	136	472	36	38	18	35
13	82	55	60	67	62	43	171	157	35	36	11	19
14	91	22	58	67	62	41	542	142	32	33	9.9	14
15	136	17	142	57	60	39	872	454	29	36	11	12
16	136	16	734	47	60	38	934	497	50	32	9.9	43
17	136	15	861	45	60	38	746	517	96	370	14	33
18	136	14	791	49	62	35	125	274	64	454	19	16
19	136	13	900	45	60	39	108	283	120	265	17	12
20	139	45	717	43	58	38	95	155	700	236	9.2	13
21	139	219	839	43	58	36	88	144	450	88	8.1	160
22	139	301	807	82	57	36	85	578	142	76	7.5	30
23	62	807	632	76	57	29	85	557	134	64	7.5	17
24	49	512	160	76	57	25	88	274	139	60	7.5	13
25	51	95	157	67	57	24	79	228	136	55	7.5	12
26	62	79	208	60	55	23	79	168	76	45	7.5	11
27	65	95	802	53	55	47	79	120	43	38	8.6	12
28	65	335	1220	47	53	64	79	94	179	29	164	11
29	67	287	894	65	---	41	82	80	335	19	47	11
30	65	818	829	116	---	32	392	130	171	15	20	9.9
31	62	---	527	160	---	29	---	100	---	13	57	---
TOTAL	2742	5668	13175	2994	3944	1192	7113	18822	3647	3370	743.0	576.9
MEAN	88.5	189	425	96.6	141	38.5	237	607	122	109	24.0	22.6
MAX	139	818	1220	472	485	64	934	2080	700	454	164	160
MIN	30	13	41	43	53	23	26	80	29	13	7.5	9.9

CAL YR 1982 TOTAL 69001.8 MEAN 189 MAX 2000 MIN 1.5
WTR YR 1983 TOTAL 64086.9 MEAN 176 MAX 2080 MIN 7.5

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 (0.8 km) southwest of Rees, 4.2 mi (6.8 km) downstream from Alum Creek, and 10.5 mi (16.9 km) upstream from mouth.

DRAINAGE AREA.--544 mi² (1,409 km²).

PERIOD OF RECORD.--August 1921 to December 1935, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

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 (212.811 m) National Geodetic Vertical Datum of 1929. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mi (0.5 km) upstream at datum 2.00 ft (0.610 m) higher prior to Oct. 1, 1924, at present datum thereafter.

REMARKS.--Records fair. Flow regulated by Hoover Reservoir 26 mi (42 km) upstream (see station 03228400) and Alum Creek Lake 30 mi (48 km) upstream (see station 03228804) since August 1973. Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 mi (34 km) upstream from station, for municipal water supply for the city of Columbus. Water-quality data collected at this site 1964 to 1977.

AVERAGE DISCHARGE.--59 years, 521 ft³/s (14.75 m³/s) (adjusted for diversion).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,800 ft³/s (1,690 m³/s) Jan. 22, 1959, gage height, 22.03 ft (6.715 m) (from high-water mark in well), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 5 ft³/s (0.14 m³/s) Sept. 4, 5, 10-12, 1925; minimum daily since 1956, 9.4 ft³/s (0.266 m³/s) Sept. 13, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 20.5 ft (6.25 m), present datum, at site 0.3 mi (0.5 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,960 ft³/s (169 m³/s) May 2, gage height, 9.85 ft (3.002 m); minimum daily, 28 ft³/s (0.79 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	45	960	700	476	114	114	4530	223	914	138	140
2	99	52	500	500	897	101	220	4890	187	399	140	71
3	98	62	300	380	960	101	1130	4770	187	259	80	55
4	101	100	280	280	720	99	514	3270	268	239	64	46
5	106	118	250	220	584	94	283	2120	200	440	63	44
6	112	160	280	218	549	105	242	3150	169	254	58	47
7	106	160	240	213	283	115	315	2250	149	215	53	44
8	130	120	200	205	202	99	1270	2310	147	187	47	40
9	140	98	180	200	183	99	1660	2180	138	171	45	39
10	290	84	150	215	178	98	1590	1850	130	162	42	37
11	151	110	130	251	180	132	607	746	127	108	45	39
12	132	180	120	205	178	138	429	584	119	96	67	105
13	130	150	110	173	162	117	437	325	89	91	48	63
14	122	90	96	160	164	115	842	286	106	86	39	52
15	122	72	320	153	162	108	2100	1330	94	81	39	40
16	112	90	900	132	162	98	1540	1490	92	78	39	78
17	96	90	1300	125	178	92	1420	1120	274	200	40	147
18	79	110	1100	101	180	92	553	594	190	1190	47	65
19	66	110	1300	108	169	114	384	584	1270	571	55	48
20	60	140	1200	106	160	121	322	399	1890	335	42	43
21	54	250	1600	105	149	114	257	322	842	215	49	305
22	49	220	1300	207	147	114	205	1330	399	153	41	142
23	48	450	700	259	142	94	192	2380	286	132	43	67
24	48	580	450	299	142	81	205	972	239	136	38	49
25	51	680	600	259	138	75	223	531	220	114	35	41
26	49	580	840	213	130	71	166	374	173	101	35	38
27	47	560	1000	178	125	87	155	315	121	86	34	34
28	44	400	1500	160	123	414	151	223	121	87	171	33
29	43	500	2500	171	---	262	153	290	631	72	250	31
30	48	620	1700	283	---	169	794	366	452	60	80	28
31	45	---	1100	444	---	128	---	271	---	55	75	---
TOTAL	2834	6981	23206	7223	7823	3761	18473	46152	9533	7287	2042	2012
MEAN	91.4	233	749	233	279	121	616	1489	318	235	65.9	67.1
MAX	290	680	2500	700	960	414	2100	4890	1890	1190	250	305
MIN	43	45	96	101	123	71	114	223	89	55	34	28
(+)	104	93	95	94	104	108	109	115	127	138	148	131

CAL YR 1982 TOTAL 162940 MEAN 446 MAX 5600 MIN 28 (+) 111
WTR YR 1983 TOTAL 137327 MEAN 376 MAX 4890 MIN 28 (+) 114

(+) Diversion, equivalent in cubic feet per second, for city of Columbus.

03230500 BIG DARBY CREEK AT DARBYVILLE, OH

LOCATION.--Lat 39°42'02", long 83°06'37", Pickaway County, Hydrologic Unit 05060001, on right bank on downstream side of bridge on State Highway 316, 0.4 mi (0.6 km) northeast of Darbyville, 0.4 mi (0.6 km) upstream from Lizzard Run, and 3.0 mi (4.8 km) downstream from Greenbrier Creek.

DRAINAGE AREA.--534 mi² (1,383 km²).

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.

REVISED RECORDS.--WSP 1083: 1922(M), 1924(M), 1927(M), 1933(M), 1938(M). WSP 1305: 1928-31(M), 1934(M), 1945(M). WSP 1505: 1932(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 713.69 ft (217.533 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 17, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--59 years, 452 ft³/s (12.80 m³/s), 11.49 in/yr (292 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,000 ft³/s (1,390 m³/s) Jan. 22, 1959, gage height, 17.94 ft (5.468 m) from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of contracted-opening measurement of peak flow; minimum observed, 1.4 ft³/s (0.040 m³/s) Sept. 17, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,500 ft³/s (127 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 3	2000	*6,930	181	*10.56	3.219	June 21	1030	5980	169	10.26	3.127

Minimum discharge, 16 ft³/s (0.45 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	30	147	644	353	149	145	2960	315	517	46	49
2	28	30	129	503	496	151	155	5440	269	780	46	40
3	27	36	120	415	1120	147	362	5980	243	450	45	37
4	26	36	118	341	1270	141	452	5650	253	520	43	39
5	25	37	100	298	748	137	399	3300	240	920	42	34
6	21	37	110	274	503	135	324	1830	221	540	42	31
7	21	38	113	261	432	135	321	1310	202	330	40	27
8	20	38	104	240	353	137	863	1040	188	253	39	24
9	20	38	100	213	293	137	1960	917	172	197	37	22
10	20	42	95	204	271	136	2340	803	159	170	36	21
11	33	43	94	213	258	165	2190	633	149	151	36	21
12	38	43	90	211	238	150	1330	535	139	139	36	19
13	39	45	87	190	216	138	990	462	131	126	35	19
14	40	43	81	174	204	115	1060	428	127	111	33	18
15	40	42	86	170	204	109	1990	736	126	100	31	17
16	38	40	403	162	218	109	1780	1670	122	90	31	17
17	35	39	807	147	245	116	1120	1290	116	114	31	17
18	33	45	633	142	263	114	824	837	135	188	28	17
19	31	76	680	137	266	122	648	664	179	97	28	17
20	31	122	890	135	245	126	521	572	1630	87	27	17
21	31	145	908	131	218	129	435	472	4550	79	25	20
22	30	133	575	145	204	147	374	773	962	75	25	22
23	30	99	406	225	199	216	335	1000	561	73	25	25
24	30	92	381	307	199	181	321	908	399	95	24	24
25	28	87	378	390	190	155	293	613	307	76	23	22
26	28	240	462	350	172	143	261	496	250	70	22	22
27	28	312	972	298	155	141	243	415	209	60	26	22
28	28	347	2850	256	149	157	225	362	188	55	33	21
29	30	238	2930	230	---	162	223	341	253	54	26	21
30	30	177	1400	250	---	151	432	393	493	50	35	20
31	30	---	894	318	---	149	---	368	---	48	47	---
TOTAL	916	2770	17143	7974	9682	4400	22916	43198	13288	6615	1043	722
MEAN	29.5	92.3	553	257	346	142	764	1393	443	213	33.6	24.1
MAX	40	347	2930	644	1270	216	2340	5980	4550	920	47	49
MIN	20	30	81	131	149	109	145	341	116	48	22	17
CFSM	.06	.17	1.04	.48	.65	.27	1.43	2.61	.83	.40	.06	.05
IN.	.06	.19	1.19	.56	.67	.31	1.60	3.01	.93	.46	.07	.05

CAL YR 1982 TOTAL 164661 MEAN 451 MAX 4750 MIN 16 CFSM .85 IN 11.47
WTR YR 1983 TOTAL 130667 MEAN 358 MAX 5980 MIN 17 CFSM .67 IN 9.10

03230900 DEER CREEK NEAR PANCOASTBURG, OH

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, Hydrologic Unit 05060002, on left bank 200 ft (61 m) downstream from bridge on Crownover Mill Road, 1,200 ft (366 m) downstream from Deer Creek Dam, and 2.8 mi (4.5 km) east of Pancoastburg.

DRAINAGE AREA.--277 mi^2 (717 km^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 700.00 ft (213.360 m) Corps of Engineers bench mark. Oct. 23, 1963, to June 30, 1966, crest-stage gage at site 200 ft (61 m) upstream at datum 59.84 ft (18.239 m) higher.

REMARKS.--Records good. Flow regulated by Deer Creek Lake (see station 03230890). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--17 years 267 ft^3/s (7.561 m^3/s)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft^3/s (552 m^3/s) (estimated) Mar. 10, 1964, gage height, 80.93 ft (24.667 m), present datum; no flow May 25-27, 1968, result of dam closure.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft^3/s (51.5 m^3/s) May 6, gage height, 73.67 ft (22.455 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Mar. 25, 26, 29-31, Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	362	323	283	88	10	288	200	100	54	12
2	22	19	359	288	286	88	11	162	175	118	33	12
3	21	19	356	167	520	88	12	25	118	116	16	12
4	20	17	353	222	466	88	12	21	86	116	11	11
5	20	15	347	205	378	88	12	96	88	114	11	11
6	22	16	344	173	309	92	12	1300	132	69	11	11
7	22	16	229	150	170	90	12	1740	152	27	11	11
8	20	17	120	140	170	90	14	1720	152	26	11	11
9	21	17	67	140	170	90	15	1740	155	26	11	11
10	22	17	47	140	170	90	15	1760	130	26	11	12
11	22	17	47	140	197	72	15	1750	96	25	11	13
12	22	17	47	140	210	63	15	1730	98	14	11	13
13	22	17	47	140	157	63	92	1750	98	23	11	13
14	22	18	47	140	86	63	347	1720	100	22	11	13
15	22	173	47	140	130	63	527	1570	55	26	11	13
16	21	261	90	132	150	63	558	838	33	33	11	13
17	21	261	205	96	175	63	558	1300	51	33	11	13
18	19	261	229	69	189	63	554	1340	57	33	11	13
19	18	261	229	44	189	63	435	1310	57	32	11	13
20	19	261	432	44	189	63	266	751	132	32	11	13
21	19	261	517	62	189	74	256	280	245	32	11	13
22	19	338	300	72	189	92	210	255	261	32	11	13
23	19	390	217	140	140	51	183	579	258	32	11	13
24	19	387	217	247	116	12	183	774	147	33	11	13
25	19	384	217	283	130	10	183	490	74	52	11	13
26	19	378	214	283	147	10	150	258	74	65	12	13
27	18	374	390	229	147	11	127	258	72	62	12	13
28	18	371	990	192	125	11	125	258	72	58	11	14
29	18	368	1200	183	---	10	125	258	70	57	12	14
30	18	365	940	145	---	10	222	258	69	55	12	14
31	19	---	432	224	---	10	---	255	---	54	12	---
TOTAL	625	5335	9638	5093	5777	1832	5256	26834	3507	1543	416	377
MEAN	20.2	178	311	164	206	59.1	176	866	117	49.8	13.4	12.6
MAX	22	390	1200	323	520	92	558	1760	261	118	54	14
MIN	18	15	47	44	86	10	10	21	33	14	11	11

CAL YR 1982 TOTAL 86763 MEAN 238 MAX 2300 MIN 14
WTR YR 1983 TOTAL 66243 MEAN 181 MAX 1760 MIN 10

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 (3.2 km) downstream from Dry Run, and 7.6 mi (12.2 km) upstream from Hay Run.

DRAINAGE AREA.--333 m^2 (862 km^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 (219.048 m) 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 (0.914 m) higher. Aug. 24, 1954 to Sept. 30, 1956, nonrecording gage at same site and datum. Oct. 1, 1958, to June 1962, crest-stage gage at site 120 ft (37 m) downstream at same datum.

REMARKS.--Records good. Flow regulated by Deer Creek Lake 9.0 mi (14.5 km) upstream beginning in 1968. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years (1926-35, 1938-56, 1962-83), 300 ft^3/s (8.496 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,600 ft^3/s (1,120 m^3/s) Jan. 22, 1959, gage height, 17.6 ft (5.36 m) (from floodmarks), from rating curve extended above 25,000 ft^3/s(708 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 1.8 ft^3/s (0.051 m^3/s) July 25, 1934, Oct. 1-4, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) May 1, gage height, 8.72 ft (2.658 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) Sept. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	18	464	450	363	108	19	1730	249	139	66	12
2	30	19	453	425	478	108	24	1650	195	150	53	9.5
3	30	20	439	210	707	104	75	1110	160	135	26	9.0
4	29	20	429	262	720	104	59	419	117	131	14	9.0
5	29	15	422	254	515	104	48	223	111	133	13	9.0
6	25	15	419	220	460	104	48	1390	133	102	12	8.4
7	22	14	311	198	215	104	54	2170	158	37	11	9.0
8	22	15	161	174	208	104	332	2120	158	33	11	8.4
9	22	17	102	172	205	102	503	2100	158	33	11	8.4
10	22	15	66	172	203	98	369	2120	148	33	9.5	7.5
11	22	17	64	174	215	91	208	2120	102	33	14	7.5
12	22	19	61	174	233	75	156	2120	102	31	12	7.5
13	21	18	57	172	210	75	170	2120	102	30	10	8.4
14	19	16	56	170	119	75	537	2120	102	34	9.5	8.4
15	19	135	61	170	143	75	975	2260	86	34	9.5	7.9
16	19	285	200	167	186	73	893	1330	49	40	10	8.4
17	19	285	265	129	210	73	844	1760	50	46	9.5	9.0
18	18	285	290	119	228	73	804	1780	102	92	10	7.9
19	17	285	412	90	228	77	678	1740	88	59	10	7.9
20	17	285	586	85	223	75	338	1190	125	50	10	9.5
21	18	290	783	81	223	78	326	408	257	41	9.0	12
22	18	372	457	121	220	98	273	975	287	39	9.0	10
23	18	489	314	198	190	88	220	915	287	39	19	9.0
24	17	474	320	323	147	27	215	1210	145	210	12	8.4
25	17	467	323	385	147	21	208	826	90	98	11	7.9
26	17	460	402	372	156	19	181	350	86	106	11	7.9
27	16	453	707	335	156	19	152	332	86	90	10	7.9
28	17	507	1450	220	154	24	145	326	86	78	10	8.4
29	17	533	1610	238	---	24	145	317	85	72	12	9.0
30	17	485	1360	200	---	21	467	313	81	69	11	8.4
31	18	---	699	265	---	19	---	305	---	67	11	---
TOTAL	644	6328	13743	6725	7462	2240	9466	39849	3985	2284	456.0	261.5
MEAN	20.8	211	443	217	267	72.3	316	1285	133	73.7	14.7	8.72
MAX	30	533	1610	450	720	108	975	2260	287	210	66	12
MIN	16	14	56	81	119	19	19	223	49	30	9.0	7.5

CAL YR 1982 TOTAL 111043.0 MEAN 304 MAX 2900 MIN 14
WTR YR 1983 TOTAL 93443.5 MEAN 256 MAX 2260 MIN 7.5

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 (427 m) downstream from Bridge Street bridge, 7.4 mi (11.9 km) upstream from Paint Creek, and 15.4 mi (24.8 km) downstream from Deer Creek.

DRAINAGE AREA.--3,849 mi^2 (9,969 km^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 (181.066 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft (396 m) upstream of different datum. Apr. 1, 1921, to Aug. 6, 1930, nonrecording gage, at site 1,400 ft (427 m) upstream at present datum. Aug. 7, 1930, to Sept. 30, 1969, water-stage recorder 900 ft (274 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by 6 reservoirs 36 mi (58km) to 91 mi (146 km) upstream from station (see stations 03220500, 03221500, 03225000, 03228400, 03228850, 03230890).

AVERAGE DISCHARGE.--63 years, 3,434 ft^3/s (97.3 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144,000 ft^3/s (4,080 m^3/s) Jan. 23, 1959, gage height, 32.5 ft (9.906 m), (from high-water mark in well); minimum daily, 166 ft^3/s (4.70 m^3/s) Sept. 27, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of 39.8 ft (12.13 m), discharge, 260,000 ft^3/s (7,360 m^3/s) (estimated by Franklin County Conservancy District).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,000 ft^3/s (991 m^3/s) May 4, gage height, 14.75 ft (4.496 m); minimum daily, 379 ft^3/s (10.7 m^3/s) Sept. 15, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	456	428	5530	6330	2800	1240	1280	10200	2410	2390	609	521
2	447	431	4300	4270	3200	1160	1280	19300	2230	3310	758	649
3	440	452	2930	3050	5650	1050	2100	29300	2120	3030	797	532
4	458	581	2190	2550	7100	1020	3880	33600	2410	2510	620	445
5	446	823	1900	2470	6730	995	3090	29200	2070	2270	586	411
6	445	773	1770	2290	5040	1000	2620	20500	1780	2540	594	384
7	434	876	2090	2060	3710	1010	2560	17200	1660	2350	558	407
8	452	895	1640	1960	2820	1030	4070	15300	1540	1830	522	398
9	476	896	1410	1780	2220	1020	10800	13100	1450	1460	510	386
10	608	820	1260	1690	2150	1040	12800	11800	1380	1250	509	392
11	864	656	1120	1790	2000	1100	11900	9570	1280	1100	538	401
12	644	564	1130	1830	1920	1230	9260	6190	1200	1000	541	419
13	598	783	1030	1700	1790	1180	7390	5220	1130	921	559	516
14	567	926	909	1550	1610	1060	6980	4690	1080	848	504	447
15	559	646	929	1530	1560	1070	10300	4800	1040	860	473	379
16	560	712	2950	1470	1670	1010	12900	8220	1040	877	447	385
17	593	795	7680	1350	1830	970	11000	8370	1050	767	469	402
18	549	871	7300	1180	1980	957	8910	6170	1610	1620	456	584
19	517	869	6410	1030	1910	978	6190	5180	1620	2790	455	450
20	509	905	10300	1000	2030	1090	4400	5120	4930	1770	460	405
21	505	1110	9280	960	2000	1060	3370	3540	11400	1210	448	430
22	516	2820	7960	1050	1920	1120	2980	5860	10400	998	426	867
23	513	4100	5690	1630	1780	1260	2590	10700	4610	865	444	680
24	495	3940	4630	2090	1460	1590	2360	8600	3120	1170	481	483
25	440	3580	3990	2390	1480	1540	2250	5450	2290	1130	438	422
26	418	2770	5530	2550	1440	1340	1970	4260	1920	895	438	389
27	418	2580	6210	2340	1360	1170	1770	3410	1670	822	443	379
28	425	2400	12200	2050	1280	1170	1680	2830	1520	833	457	390
29	425	5860	15500	1800	---	1600	1660	2560	1510	728	649	386
30	443	5400	14100	1660	---	1400	2130	2740	1990	690	881	382
31	440	---	9850	2350	---	1320	---	2730	---	639	555	---
TOTAL	15660	49262	159718	63750	72440	35780	156470	315710	75460	45473	16625	13721
MEAN	505	1642	5152	2056	2587	1154	5216	10180	2515	1467	536	457
MAX	864	5860	15500	6330	7100	1600	12900	33600	11400	3310	881	867
MIN	418	428	909	960	1280	957	1280	2560	1040	639	426	379

CAL YR 1982 TOTAL 1367309 MEAN 3746 MAX 26800 MIN 389
WTR YR 1983 TOTAL 1020069 MEAN 2795 MAX 33600 MIN 379

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 (122 m) downstream from Paint Creek dam, 700 ft (213 m) upstream from Cliff Creek, and 4.5 mi (7.2 km) northwest of Bainbridge.

DRAINAGE AREA.--570 mi^2 (1,476 km^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 700.00 ft (213.360 m) National Geodetic Vertical Datum of 1929. (levels by Corps of Engineers). Prior to May 3, 1968, water-stage recorder and crest-stage gage at partial-record site 1,000 ft (305 m) downstream at datum 42.96 ft (13.094 m) higher.

REMARKS.--Records good. Flow regulated by Paint Creek Lake (see station 03232460). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--16 years, 575 ft^3/s (16.28 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 45,000 ft^3/s (1,270 m^3/s) Mar. 10, 1964, gage height, 27.3 ft (8.32 m), site and datum then in use; minimum daily, 4.7 ft^3/s (0.13 m^3/s) Sept. 1, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,030 ft^3/s (142 m^3/s) May 14, gage height, 53.61 ft (16.340 m); minimum daily, 8.7 ft^3/s (0.25 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	161	431	774	947	207	61	1190	487	430	157	18
2	33	159	262	694	849	227	42	756	505	370	157	8.7
3	33	223	162	480	1450	192	42	20	446	370	86	16
4	34	259	67	376	1540	176	73	17	960	200	33	16
5	32	261	35	365	960	170	61	41	1040	160	24	15
6	30	122	63	291	581	167	79	2680	517	160	24	15
7	28	47	62	260	629	167	99	4810	403	162	23	15
8	16	22	62	260	471	167	106	4760	283	162	23	15
9	15	27	65	260	389	167	1200	4790	253	120	23	15
10	15	30	188	260	382	167	2410	4830	253	102	23	15
11	16	33	179	214	377	167	2200	4780	167	75	23	15
12	15	41	76	196	325	167	1630	4870	137	53	23	14
13	23	39	41	196	243	166	1240	4920	137	52	23	16
14	53	37	28	195	221	109	1300	4890	137	52	23	19
15	68	23	23	196	239	91	1770	4770	130	68	23	19
16	67	26	92	173	348	91	1620	4740	124	85	23	19
17	68	27	404	127	571	106	922	3340	154	78	23	20
18	107	35	596	111	672	122	775	1650	960	218	23	20
19	118	27	464	111	587	125	762	1180	760	589	23	20
20	160	23	741	111	348	101	719	1150	480	441	23	20
21	179	24	918	111	342	204	583	1140	400	271	23	20
22	177	39	637	493	363	239	488	1050	310	159	23	20
23	182	58	653	1370	366	196	451	1830	260	122	23	21
24	190	57	736	1260	314	152	450	2580	220	119	23	21
25	199	30	653	1030	291	128	409	2670	180	113	23	20
26	174	53	1160	696	257	120	297	2620	150	114	23	20
27	173	71	1360	569	167	119	214	1150	130	110	23	20
28	174	76	2120	567	185	119	199	469	300	112	23	20
29	166	110	2120	490	---	119	199	469	760	109	23	35
30	163	399	1340	462	---	119	808	475	560	112	23	50
31	164	---	908	703	---	119	---	493	---	110	24	---
TOTAL	2908	2539	16646	13401	14414	4686	21209	75130	11603	5398	1057	577.7
MEAN	93.8	84.6	537	432	515	151	707	2424	387	174	34.1	19.3
MAX	199	399	2120	1370	1540	239	2410	4920	1040	589	157	50
MIN	15	22	23	111	167	91	42	17	124	52	23	8.7

CAL YR 1982 TOTAL 181634.0 MEAN 498 MAX 6800 MIN 15
WTR YR 1983 TOTAL 169568.7 MEAN 465 MAX 4920 MIN 8.7

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 (1.8 km) north of Barretts Mills, 2 mi (3 km) east of Rainsboro, 2.8 mi (4.5 km) upstream from mouth, and 6 mi (10 km) downstream from Rocky Fork Lake.

DRAINAGE AREA.--140 mi^2 (363 km^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 (234.94 m) National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers). Prior to Feb. 15, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Some diurnal fluctuation caused by mill 6 mi (10 km) upstream from station. Flow regulated by Rocky Fork Lake 6 mi (10 km) upstream, since 1952, capacity, 34,100 acre-ft (42.0 hm^3). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--44 years, 154 ft^3/s (4.36 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft^3/s (379 m^3/s) Mar. 10, 1964 from rating curve extended above 8,800 ft^3/s (249 m^3/s) on basis of velocity-area studies; maximum gage height, 15.56 ft (4.743 m) Mar. 6, 1945; minimum daily discharge, 0.90 ft^3/s (0.025 m^3/s) Sept. 10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,600 ft^3/s (130 m^3/s) May 3, gage height, 8.95 ft (2.728 m); minimum daily, 5.4 ft^3/s (0.15 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	10	265	286	64	30	18	742	148	350	18	8.8
2	5.7	10	234	286	87	32	24	1030	126	240	15	7.7
3	6.1	15	142	281	133	29	31	3460	222	120	12	7.4
4	6.4	12	138	278	246	26	24	2450	705	90	11	8.3
5	6.4	12	140	246	210	16	17	1150	452	74	11	8.1
6	6.8	12	140	67	210	15	20	629	315	64	11	6.5
7	7.2	12	106	69	210	15	29	407	244	57	11	6.3
8	9.1	11	23	67	210	17	262	374	180	50	10	6.5
9	7.9	11	9.5	65	180	17	474	333	144	40	8.9	6.1
10	7.9	13	9.5	69	178	16	523	262	119	35	8.0	6.3
11	7.9	13	9.5	71	180	14	485	210	101	33	20	6.5
12	7.6	14	9.5	67	174	14	480	174	85	28	19	7.1
13	8.3	15	9.5	67	174	14	380	150	72	26	14	8.1
14	7.2	15	9.5	66	174	14	350	146	62	25	11	7.7
15	7.2	16	27	62	178	13	380	438	58	25	10	6.6
16	8.7	19	121	60	185	14	327	656	54	27	9.0	7.5
17	9.5	20	121	61	185	17	259	459	54	25	8.5	11
18	7.6	21	136	53	180	18	219	327	56	45	8.5	7.7
19	8.3	21	207	38	178	18	172	387	56	440	9.0	7.1
20	8.7	23	222	26	174	17	146	427	150	338	8.0	7.8
21	9.1	27	222	29	172	21	128	358	580	218	7.7	11
22	8.7	27	202	160	176	19	112	1650	370	148	8.2	9.1
23	8.3	25	205	170	172	16	102	1260	180	104	7.6	8.2
24	8.3	23	219	148	170	13	110	678	130	113	7.4	8.1
25	8.3	23	244	133	170	13	110	420	94	80	7.3	7.8
26	8.7	20	278	119	166	13	93	303	76	59	7.0	7.8
27	9.1	275	244	109	126	13	86	231	62	46	7.0	7.8
28	9.1	301	267	38	32	14	80	189	60	37	7.0	7.8
29	9.5	289	303	41	---	14	144	200	110	31	7.2	7.8
30	9.5	278	295	54	---	13	550	217	500	26	7.3	7.8
31	10	---	286	65	---	17	---	176	---	21	7.8	---
TOTAL	248.5	1583	4844.0	3351	4694	532	6135	19893	5565	3015	314.4	232.4
MEAN	8.02	52.8	156	108	168	17.2	205	642	186	97.3	10.1	7.75
MAX	10	301	303	286	246	32	550	3460	705	440	20	11
MIN	5.4	10	9.5	26	32	13	17	146	54	21	7.0	6.1

CAL YR 1982 TOTAL 47180.1 MEAN 129 MAX 1660 MIN 5.1
WTR YR 1983 TOTAL 50407.3 MEAN 138 MAX 3460 MIN 5.4

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 (0.3 km) downstream from Sulfur Lick, 1.2 mi (1.9 km) southwest of Bourneville, and 1.2 mi (1.9 km) upstream from Upper Twin Creek.

DRAINAGE AREA.--807 mi² (2,090 km²).

PERIOD OF RECORD.--October 1921 to January 1937, January 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Bainbridge" October 1921 to September 1923 and as "near Bainbridge" January 1938 to May 1939.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 665.56 ft (202.863 m) National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to May 3, 1939.

REMARKS.--Records fair. Flow regulated by Paint Creek Lake 17 mi (27.4 km) upstream since 1971, capacity 145,000 acre-ft (179 hm³) and Rocky Fork Lake 23 mi (37 km) upstream since 1952, capacity, 34,100 acre-ft (42.0 hm³). Water-quality data collected at this site 1965 to 1977. Sediment data 1956 to 1962.

AVERAGE DISCHARGE.--60 years (1921-36, 1939-83), 802 ft³/s (22.7 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,900 ft³/s (1,610 m³/s) Mar. 10, 1964, gage height, 20.50 ft (6.248 m), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of contracted-opening measurement at gage height 20.08 ft (6.120 m); minimum daily, 5 ft³/s (0.1 m³/s) Oct. 29, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,530 ft³/s (213 m³/s) May 22, gage height, 9.28 ft (2.829 m); minimum daily, 30 ft³/s (0.85 m³/s) Oct. 12, 13, Sept. 9-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	171	703	1150	871	260	149	2510	794	735	172	44
2	54	165	523	958	1030	272	76	2940	751	599	234	38
3	51	184	356	842	1250	269	186	5580	947	549	172	36
4	52	244	252	674	2120	240	147	4170	2420	457	105	43
5	53	248	189	654	1380	228	138	1970	2090	375	85	34
6	51	208	186	442	881	223	122	2190	1220	320	79	33
7	48	100	194	349	718	220	212	5900	882	288	75	31
8	50	71	129	342	723	220	1380	5820	689	269	73	31
9	39	51	96	339	574	220	2430	5810	547	251	69	30
10	34	50	123	339	559	220	3900	5730	500	207	68	30
11	31	53	214	333	554	223	3550	5630	442	191	72	30
12	30	56	134	292	525	220	2540	5600	342	151	87	30
13	30	63	101	286	466	220	2000	5620	320	142	75	32
14	35	58	64	285	419	215	1720	5610	307	138	69	33
15	70	56	66	282	427	169	2740	5980	294	136	64	36
16	77	45	168	272	488	160	2580	6400	278	149	62	34
17	80	52	263	247	651	158	1700	5300	278	153	60	35
18	82	51	650	215	788	160	1170	2840	266	307	58	34
19	131	56	680	221	800	169	1080	2050	317	776	58	33
20	129	54	733	224	589	176	1000	2190	701	933	56	33
21	175	59	1180	178	516	179	800	1960	1110	589	53	38
22	168	59	875	358	530	266	701	4630	987	382	51	40
23	174	68	760	1500	535	275	620	3810	651	297	51	36
24	182	90	993	1650	511	237	635	4150	423	272	51	34
25	191	75	868	1250	475	201	599	3920	375	251	49	33
26	181	55	1550	974	457	186	502	3650	281	231	49	33
27	172	199	1670	656	378	196	394	2490	260	209	47	33
28	174	334	2500	575	269	294	348	910	215	199	45	33
29	172	354	2950	530	---	199	357	886	511	194	45	32
30	165	482	1980	487	---	169	1090	953	1140	184	44	45
31	170	---	1250	506	---	158	---	860	---	174	43	---
TOTAL	3108	3811	22400	17510	19484	6602	34876	118059	20338	10108	2321	1037
MEAN	100	127	723	565	696	213	1163	3808	678	326	74.9	34.6
MAX	191	482	2950	1650	2120	294	3900	6400	2420	933	234	45
MIN	30	45	64	178	269	158	76	860	215	136	43	30

CAL YR 1982 TOTAL 276992 MEAN 759 MAX 7540 MIN 30
WTR YR 1983 TOTAL 259654 MEAN 711 MAX 6400 MIN 30

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 (1.3 km) downstream from Walnut Creek, 1.2 mi (1.9 km) north of Higby, 3 mi (5 km) northwest of Richmondale and 5.0 mi (8.0 km) upstream from Salt Creek.

DRAINAGE AREA.--5,131 mi^2 (13,289 km^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 (172.907 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow slightly regulated by 8 reservoirs 45 mi (72 km) to 105 mi (169 km) upstream from station. See stations 03220500, 03221500, 03225000, 03228400, 03228804, 03230890, 03232460, and since 1952 by Rocky Fork Lake 51 mi (82 km) upstream, capacity, 34,100 acre-ft (42.0 hm:).

AVERAGE DISCHARGE.--53 years, 4,579 ft^3/s (130 m^3/s)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177,000 ft^3/s (5,010 m^3/s Jan. 23, 1937, from rating curve extended above 112,000 ft^3/s (3,170 m^3/s); maximum gage height, 26.4 ft (8.05 m) Jan. 23, 1937, from floodmarks, and Jan. 23, 1959; minimum daily discharge, 244 ft^3/s (6.91 m^3/s) Oct. 23, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 31.6 ft (9.63 m) occurred Mar. 26, 1913, and has not been exceeded since.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,300 ft^3/s (1,340 m^3/s) May 4, gage height, 18.79 ft (5.727 m); minimum daily, 611 ft^3/s (17.3 m^3/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	724	819	6040	7970	3870	1910	1810	12000	3620	3000	1100	814
2	699	806	5060	5650	4810	1860	1830	24200	3360	4020	1130	938
3	687	843	3740	4350	6830	1760	2650	38700	4070	3730	1350	884
4	676	957	2830	3580	8820	1700	4320	44600	6240	3320	1110	754
5	670	1240	2450	3430	8200	1650	3640	35800	4610	2890	984	701
6	653	1290	2240	3180	6220	1640	3210	25800	3590	3060	948	655
7	645	1250	2480	2800	4750	1640	3280	23200	2990	2880	924	643
8	642	1250	2190	2650	3980	1650	5900	21400	2680	2470	865	645
9	642	1220	1870	2480	3290	1630	13100	19000	2440	2120	842	636
10	792	1200	1720	2390	3070	1640	16900	17200	2310	1870	842	634
11	1070	1050	1610	2480	2940	1660	15900	15100	2190	1780	865	648
12	937	897	1630	2500	2810	1770	12200	11600	2020	1640	877	680
13	853	894	1500	2330	2640	1800	9610	10500	1970	1500	888	755
14	810	1310	1360	2200	2440	1700	8790	9930	1910	1400	854	763
15	792	1040	1460	2150	2360	1650	13400	10500	1930	1400	797	651
16	798	936	2710	2090	2580	1590	15500	14600	1930	1460	785	644
17	842	1040	7370	1980	2990	1520	13100	14400	1820	1350	747	636
18	842	1140	7500	1760	3180	1490	10200	9740	2030	1800	752	827
19	804	1160	6770	1580	3140	1600	7570	8030	2410	3400	723	784
20	812	1190	10100	1500	3060	1670	5770	8280	4220	3050	734	676
21	841	1290	10100	1540	2880	1700	4560	6300	10500	2160	733	708
22	899	2310	8750	1790	2780	1760	4040	13800	11800	1840	701	961
23	911	3970	6960	3580	2710	1850	3580	18400	5800	1580	676	1140
24	900	3840	6480	4260	2390	2060	3400	13500	3920	1680	755	813
25	883	3860	5370	4080	2340	2100	3260	9680	3190	1830	710	696
26	842	3130	7300	3950	2280	1930	2950	8050	2710	1520	693	653
27	801	2780	8020	3460	2160	1780	2610	6690	2410	1400	694	627
28	801	2930	12800	3070	2010	1670	2420	4420	2130	1350	756	611
29	802	4880	17800	2720	---	2050	2350	3980	2030	1270	758	612
30	814	5930	16400	2550	---	1970	3760	4080	3030	1210	1290	615
31	821	---	11800	3080	---	1840	---	4050	---	1150	933	---
TOTAL	24705	56452	184410	93130	101530	54240	201610	467530	105860	65130	26816	21804
MEAN	797	1882	5949	3004	3626	1750	6720	15080	3529	2101	865	727
MAX	1070	5930	17800	7970	8820	2100	16900	44600	11800	4020	1350	1140
MIN	642	806	1360	1500	2010	1490	1810	3980	1820	1150	676	611

CAL YR 1982 TOTAL 1734300 MEAN 4752 MAX 30800 MIN 605
WTR YR 1983 TOTAL 1403217 MEAN 3844 MAX 44600 MIN 611

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1967 to current year.
pH March 1967 to current year.
WATER TEMPERATURES: October 1953 to current year.
DISSOLVED OXYGEN: March 1967 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1967.

REMARKS.--Samples were collected each month as part of the National Stream Quality Accounting Network. Interruptions in the water-quality record were due to malfunction of the instrument. Daily Sediment data collected 1954-1974, 1979-1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,060 micromhos Feb. 10, 1977; minimum, 113 micromhos Sept. 16, 1975.
pH Maximum, 9.3 units July 21, 1982; 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 May 3,4, 1982; minimum, 0.0 mg/L on many days during 1968, Sept. 13 1969.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 902 micromhos Sept. 18; minimum, 174 micromhos May 3.
pH Maximum 9.1 units Aug. 9 minimum 7.3 units May 3, June 20.
WATER TEMPERATURES: Maximum 30.0°C July 23; minimum, 0.0°C Jan. 19, 20.
DISSOLVED OXYGEN. Maximum, >20.0 mg/L Aug. 8, 9 minimum, 3.5 mg/L Aug. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
NOV											
18...	0900	1070	<10	3	94	<1	<1	<1	<3	8	49
FEB											
22...	1430	2680	<10	1	93	<1	<1	<1	<3	12	38
MAY											
18...	1000	9740	<10	3	110	1	1	6	3	11	17
SEP											
21...	1130	730	30	3	100	<1	<1	<1	<3	11	28

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)
NOV											
18...	2	8	11	<.1	20	3	<1	<1	1500	<6.0	9
FEB											
22...	9	6	22	.3	20	6	<1	<1	1500	<6.0	9
MAY											
18...	<1	4	4	<.1	10	1	<1	<1	920	6.0	3
SEP											
21...	5	18	34	.1	<10	5	<1	<1	1000	<6.0	10

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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										
18...	0900	1070	690	7.9	7.0	8.0	8.7	10.2	88	1300
FEB										
22...	1430	2680	670	7.9	20.0	8.5	15	11.6	101	800
MAY										
18...	1000	9740	485	7.7	13.0	15.0	25	7.6	76	11000
SEP										
21...	1130	730	825	8.0	14.0	21.0	17	5.8	67	1500

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	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)
NOV										
18...	300	63	26	52	30	1.4	4.0	196	84	50
FEB										
22...	500	74	30	32	18	.8	3.2	195	92	43
MAY										
18...	6800	57	23	11	9	.3	2.6	152	53	22
SEP										
21...	2000	73	23	64	33	1.7	6.4	207	120	71

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	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)
NOV										
18...	.4	3.9	435	1.6	.060	.08	.80	.480	.390	.390
FEB										
22...	.4	4.0	424	5.3	.300	.39	1.00	.290	.220	.220
MAY										
18...	.3	7.5	311	5.3	.080	.10	.80	.280	.110	.100
SEP										
21...	.6	4.1	598	2.9	.080	.10	.90	1.10	.870	.910

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
18...	0900	1070	8.0	29	84
FEB					
22...	1430	2680	8.5	21	152
MAY					
18...	1000	9740	15.0	148	3890
SEP					
21...	1130	730	21.0	34	67

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1967 to current year.
pH: March 1967 to current year.
WATER TEMPERATURES: October 1953 to current year.
DISSOLVED OXYGEN: March 1967 to current year.
SUSPENDED SEDIMENT DISCHARGE: Water years 1954-74, January 1979 to 1982 (discontinued).

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,060 micromhos Feb. 10, 1977; minimum, 113 micromhos Sept. 16, 1975.
pH: Maximum, 9.3 units July 21, 1982; 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 May 3,4, 1982; minimum, 0.0 mg/L on many days during 1968, Sept. 13, 1969.
SEDIMENT CONCENTRATIONS. Maximum daily mean, 2,520 mg/L June 23, 1954; minimum daily mean, 1 mg/L on several days during 1955-56, and 1980-81.
SEDIMENT LOADS: Maximum daily, 550,000 tons (499,000 tonnes) Jan. 23, 1959; minimum daily, 0.82 ton (0.74 tonne) Sept. 8, 1955.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 902 micromhos Sept. 18; minimum, 174 micromhos May 3.
pH: Maximum, 9.1 units Aug. 9; minimum 7.3 units May 3, June 20.
WATER TEMPERATURES: Maximum, 30.0°C July 23; minimum, 0.0°C Jan. 19, 20.
DISSOLVED OXYGEN: Maximum, >20.0 mg/L Aug. 8, 9; minimum, 3.5 mg/L Aug. 29.

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	832	818	825	802	786	790	558	476	515	542	524	532
2	826	804	818	800	780	787	594	558	572	560	540	548
3	802	788	793	800	784	791	606	582	590	588	558	569
4	792	786	789	794	764	780	618	594	607	626	582	597
5	786	770	777	772	760	769	640	620	631	626	602	613
6	804	776	790	772	762	765	668	632	646	636	624	627
7	842	806	820	776	762	771	680	654	666	654	634	645
8	844	840	843	770	736	747	684	664	676	660	654	657
9	846	836	841	756	736	747	694	665	678	684	656	667
10	848	820	835	752	734	739	724	696	709	690	682	687
11	818	792	805	748	738	743	756	724	736	686	682	683
12	820	810	814	748	730	739	738	726	731	688	682	685
13	822	814	818	732	724	730	772	738	755	696	686	689
14	824	804	816	730	708	716	778	770	775	702	682	691
15	800	758	776	776	734	762	786	592	757	698	696	698
16	776	760	766	780	748	772	552	472	547	706	696	701
17	772	766	770	744	708	729	706	472	571	712	704	707
18	798	774	789	750	680	720	578	476	528	736	714	726
19	822	798	811	768	740	752	604	576	592	764	726	740
20	840	800	820	780	760	770	578	456	531	774	746	755
21	820	804	811	776	744	756	524	448	477	772	750	755
22	818	774	786	858	714	738	548	524	535	752	612	715
23	776	756	762	724	536	610	536	424	505	604	562	584
24	758	750	753	532	488	506	518	408	467	642	594	622
25	770	744	753	590	530	562	566	460	537	648	636	644
26	784	770	782	598	588	592	506	410	468	652	636	644
27	784	772	777	630	600	620	514	504	510	670	650	661
28	792	778	784	662	596	622	512	474	501	692	662	674
29	786	770	775	602	526	582	492	460	475	716	676	688
30	798	776	785	518	446	473	540	494	521	700	690	697
31	808	784	792	---	---	---	548	536	542	708	684	693
MONTH	848	744	796	858	446	706	788	408	592	774	524	664

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	704	664	681	736	710	722	776	754	764	556	400	512
2	660	524	582	824	706	725	788	718	774	388	356	368
3	596	540	574	798	722	739	696	584	613	354	174	280
4	566	534	546	818	724	741	704	620	679	270	206	274
5	582	568	575	876	716	755	636	616	628	380	326	359
6	606	584	596	800	746	756	638	596	621	440	384	416
7	624	608	620	772	742	754	630	598	618	458	440	454
8	622	612	617	766	750	755	618	366	491	536	452	479
9	650	620	634	---	---	---	496	442	473	486	448	466
10	672	650	662	---	---	---	506	444	480	488	442	453
11	672	662	666	---	---	---	542	502	518	460	432	440
12	678	670	675	---	---	---	582	544	563	452	438	443
13	690	674	684	---	---	---	598	584	594	458	444	450
14	700	682	688	---	---	---	500	418	573	466	456	461
15	710	694	705	---	---	---	496	396	465	464	428	452
16	692	670	680	768	758	763	500	464	478	464	436	450
17	666	642	648	762	752	756	528	502	515	464	430	444
18	656	642	649	768	742	752	546	528	536	498	466	487
19	668	650	656	748	736	742	570	548	561	508	462	495
20	710	658	673	744	738	742	594	570	583	510	460	487
21	860	674	690	---	---	---	614	594	604	524	512	517
22	684	668	673	---	---	---	630	614	623	520	226	362
23	672	666	669	---	---	---	640	628	636	432	298	379
24	672	666	669	---	---	---	636	632	634	468	434	446
25	676	668	674	---	---	---	650	632	641	514	472	496
26	700	676	690	---	---	---	670	650	659	542	512	526
27	698	688	693	---	---	---	696	660	673	556	536	544
28	736	696	709	---	---	---	718	682	697	598	560	588
29	---	---	---	822	800	809	716	698	703	612	598	604
30	---	---	---	888	798	822	698	506	568	626	600	612
31	---	---	---	792	766	778	---	---	---	636	622	629
MONTH	860	524	653	888	706	757	788	366	599	636	174	464

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	628	618	622	620	582	608	690	672	684	890	864	879
2	646	624	632	600	546	586	688	668	681	864	775	823
3	640	300	598	564	516	541	692	664	680	776	720	752
4	448	306	411	578	554	569	708	680	698	758	714	732
5	572	452	530	582	556	574	728	696	712	814	764	792
6	606	574	589	596	584	591	730	686	713	844	816	831
7	624	606	619	600	594	597	704	680	694	844	822	833
8	642	624	635	632	598	619	724	696	710	828	800	815
9	656	640	650	650	632	640	752	722	740	846	808	827
10	664	652	658	676	650	662	760	732	748	866	846	855
11	672	662	668	692	678	686	764	744	753	864	850	856
12	686	668	680	696	692	694	756	730	740	868	838	856
13	694	686	690	708	696	703	760	712	741	850	812	835
14	694	682	688	712	700	705	744	718	734	810	786	797
15	692	680	685	716	694	706	752	720	738	864	814	841
16	696	688	691	722	682	701	784	726	757	872	858	866
17	696	686	692	712	674	696	796	774	785	880	854	863
18	710	694	702	704	566	613	796	770	783	902	842	880
19	734	696	718	678	530	639	780	742	765	840	830	834
20	696	578	633	602	448	486	774	736	759	830	818	825
21	556	424	494	504	470	486	780	762	774	840	818	826
22	534	512	520	550	504	525	784	774	780	846	790	832
23	532	500	510	594	554	576	786	780	784	782	764	773
24	540	500	518	600	548	579	778	748	761	812	782	798
25	568	542	555	620	576	600	808	774	790	842	814	830
26	606	570	589	614	590	602	812	788	801	838	794	816
27	622	600	611	638	608	619	796	780	789	792	776	782
28	646	608	629	664	642	657	822	778	798	776	762	768
29	648	640	646	674	664	670	824	776	795	810	772	782
30	648	594	616	680	664	674	822	800	812	850	814	828
31	---	---	---	688	666	681	874	824	860	---	---	---
MONTH	734	300	616	722	448	622	874	664	754	902	714	821
YEAR	902	174	667									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.8	7.9	7.8	7.6	7.7	8.7	8.5	8.6	7.9	7.6	7.7
2	7.9	7.9	7.9	7.8	7.5	7.7	8.8	8.5	8.6	8.1	7.7	7.9
3	7.9	7.5	7.8	7.7	7.6	7.7	8.9	8.6	8.7	8.1	7.9	8.0
4	7.7	7.5	7.6	7.8	7.7	7.7	8.8	8.5	8.6	8.1	7.9	8.0
5	7.8	7.7	7.8	7.8	7.7	7.7	8.6	8.5	8.5	8.1	7.9	7.9
6	7.9	7.8	7.8	7.8	7.8	7.8	8.7	8.3	8.5	8.1	7.8	7.9
7	8.0	7.8	7.9	7.8	7.7	7.8	8.7	8.3	8.5	8.3	7.9	8.1
8	8.2	7.9	8.0	7.8	7.7	7.8	9.0	8.3	8.6	8.6	8.1	8.3
9	8.3	8.0	8.1	7.8	7.7	7.8	9.1	8.7	8.9	8.4	8.2	8.3
10	8.4	8.1	8.2	7.8	7.7	7.8	9.0	8.7	8.8	8.4	8.2	8.3
11	8.4	8.1	8.3	7.9	7.8	7.8	8.9	8.5	8.6	8.3	8.1	8.2
12	8.4	8.2	8.3	8.1	7.8	8.0	8.5	8.2	8.4	8.2	8.0	8.1
13	8.5	8.2	8.4	8.3	7.9	8.1	8.6	8.1	8.3	8.2	8.0	8.1
14	8.5	8.3	8.4	8.3	8.0	8.2	8.3	7.8	7.9	8.4	8.1	8.3
15	8.5	8.3	8.4	8.2	7.6	8.0	8.4	7.9	8.1	8.3	8.1	8.2
16	8.4	8.2	8.3	8.3	7.8	8.0	8.8	8.1	8.5	8.1	7.9	8.0
17	8.2	7.9	8.1	8.2	7.7	7.9	8.7	8.6	8.6	8.2	7.9	8.0
18	8.1	7.8	7.9	8.3	7.8	8.1	8.7	8.4	8.5	8.4	8.0	8.2
19	7.8	7.6	7.7	7.9	7.5	7.7	8.5	8.2	8.4	8.3	8.1	8.2
20	7.7	7.3	7.6	7.8	7.6	7.6	8.3	8.0	8.2	8.2	8.1	8.1
21	7.6	7.4	7.5	7.7	7.6	7.6	8.1	8.0	8.1	8.1	7.9	8.0
22	7.7	7.6	7.6	7.8	7.6	7.7	8.2	8.1	8.1	8.1	7.9	8.0
23	7.7	7.6	7.6	7.9	7.7	7.8	8.2	8.1	8.2	8.2	8.0	8.1
24	7.6	7.5	7.6	7.8	7.6	7.7	8.2	8.0	8.1	7.9	7.8	7.9
25	7.7	7.6	7.6	7.9	7.5	7.6	8.7	8.0	8.2	7.8	7.7	7.8
26	7.7	7.6	7.6	8.0	7.8	7.9	8.6	8.4	8.5	7.8	7.7	7.7
27	7.7	7.6	7.7	8.1	7.8	8.0	8.4	8.1	8.2	7.9	7.8	7.8
28	7.7	7.7	7.7	8.3	8.0	8.1	8.1	7.9	8.0	7.8	7.7	7.8
29	7.8	7.7	7.7	8.4	8.2	8.3	8.4	7.7	7.9	7.7	7.7	7.7
30	7.8	7.7	7.8	8.6	8.3	8.4	8.3	8.0	8.1	7.7	7.7	7.7
31	---	---	---	8.6	8.4	8.5	8.0	7.6	7.8	---	---	---
MONTH	8.5	7.3	7.9	8.6	7.5	7.9	9.1	7.6	8.4	8.6	7.6	8.0
YEAR	9.1	7.3	7.9									

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	16.0	16.5	26.5	23.5	25.0	28.0	26.5	27.0	27.0	24.5	25.5
2	18.0	16.0	16.5	27.5	24.5	26.0	28.0	25.0	26.5	25.5	23.5	25.0
3	17.5	16.0	17.0	27.0	25.5	26.0	28.0	25.5	27.0	26.5	24.5	25.0
4	18.5	16.0	17.0	26.5	25.0	25.5	27.5	26.0	26.5	26.0	24.5	25.0
5	20.0	17.5	18.5	26.5	24.5	25.5	26.5	25.5	26.0	26.5	24.5	25.5
6	20.5	19.0	19.5	25.5	23.5	24.5	28.5	25.5	26.5	26.5	25.0	26.0
7	20.5	18.5	19.5	25.0	22.0	23.5	28.5	26.0	27.5	26.5	25.0	26.0
8	21.0	18.5	20.0	25.0	22.0	23.5	29.0	26.0	27.5	26.0	23.0	24.5
9	22.0	19.0	20.5	25.0	22.5	24.0	28.5	26.0	27.5	25.5	22.5	24.0
10	22.5	19.5	21.0	26.0	23.5	25.0	28.0	25.0	26.5	25.5	23.0	24.5
11	23.5	20.5	22.0	26.0	23.5	25.0	27.0	25.0	25.5	26.0	23.5	25.0
12	24.0	21.5	23.0	27.5	24.5	26.0	25.5	23.5	24.5	26.0	24.5	25.0
13	24.5	22.5	23.5	28.5	26.0	27.0	25.0	23.0	24.5	26.0	24.0	25.0
14	25.5	23.0	24.5	28.5	26.0	27.5	25.5	22.5	24.0	24.5	22.0	23.0
15	25.5	23.5	24.5	28.0	26.5	27.5	25.5	23.0	24.5	22.0	20.0	21.5
16	25.0	23.5	24.5	28.5	25.5	27.0	26.5	23.5	25.0	21.5	20.0	21.0
17	25.0	23.5	24.0	27.5	26.0	27.0	25.0	24.5	25.5	22.5	20.0	21.5
18	24.5	23.5	23.5	27.0	24.0	25.5	27.0	25.0	26.0	23.0	20.5	21.5
19	24.0	22.5	23.0	28.0	26.0	27.0	28.5	25.5	27.0	24.0	21.5	23.0
20	23.5	22.5	23.0	28.5	26.0	27.5	29.5	26.5	28.0	23.5	22.0	23.0
21	23.0	21.5	22.5	29.5	27.0	28.0	30.0	27.0	28.5	23.0	20.0	21.5
22	23.5	22.0	22.5	29.5	27.5	28.5	30.0	28.0	29.0	20.0	17.5	18.5
23	24.5	22.0	23.0	30.0	28.0	29.0	29.0	27.5	28.0	18.0	16.5	17.5
24	25.5	22.5	24.0	29.0	27.0	28.0	29.0	26.5	28.0	18.5	16.0	17.0
25	26.0	23.5	24.5	28.0	25.5	26.5	28.5	26.0	27.5	18.5	15.5	17.0
26	26.0	23.5	25.0	27.0	24.5	25.5	28.5	26.5	27.5	19.0	17.5	18.0
27	26.0	24.0	25.0	27.0	24.5	26.0	28.5	26.5	27.5	20.0	17.5	19.0
28	25.5	24.5	25.0	27.5	25.5	26.5	27.5	26.0	27.0	20.5	18.0	19.0
29	25.0	24.0	24.5	28.5	26.0	27.0	28.0	25.5	26.5	20.5	18.0	19.5
30	25.5	23.0	24.5	29.0	26.5	27.5	27.5	26.0	26.5	20.5	17.5	19.0
31	---	---	---	28.5	26.5	27.5	27.0	26.0	26.5	---	---	---
MONTH	26.0	16.0	22.0	30.0	22.0	26.5	30.0	22.5	26.5	27.0	15.5	22.0
YEAR	30.0	.0	15.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	5.6	6.8	8.7	7.6	8.2	9.7	9.5	9.7	10.8	10.6	10.7
2	8.6	6.9	7.6	7.8	6.8	7.4	10.4	9.7	10.1	10.7	10.6	10.6
3	9.3	6.0	7.6	7.2	6.6	7.0	10.2	9.9	10.0	10.6	10.5	10.5
4	9.0	6.7	7.7	7.9	6.6	7.1	9.8	9.4	9.6	10.7	10.4	10.5
5	10.0	7.0	8.3	8.9	8.0	8.5	9.3	9.1	9.2	10.6	10.0	10.4
6	10.1	6.4	8.4	9.6	9.0	9.2	9.5	9.0	9.2	10.0	9.8	10.0
7	7.7	5.4	6.0	9.8	9.5	9.6	10.3	9.5	9.9	---	---	---
8	7.3	5.4	6.4	10.4	9.8	10.1	10.7	10.1	10.4	---	---	---
9	6.6	6.1	6.3	10.8	10.2	10.5	10.7	10.2	10.4	---	---	---
10	6.4	5.8	6.0	11.0	10.2	10.6	10.9	10.7	10.8	---	---	---
11	7.2	6.0	6.4	10.5	9.5	10.0	11.1	10.7	10.9	---	---	---
12	6.4	5.6	6.1	9.5	8.9	9.1	11.5	11.1	11.3	---	---	---
13	6.2	5.8	6.0	9.8	8.9	9.3	11.7	11.5	11.6	11.6	11.4	11.5
14	6.5	5.7	6.3	10.4	9.9	10.1	11.9	11.6	11.7	11.4	10.8	11.1
15	7.2	6.3	6.9	10.1	9.9	10.0	11.7	11.5	11.6	10.7	10.4	10.5
16	7.5	7.0	7.3	---	---	---	11.5	11.3	11.4	10.4	10.3	10.4
17	8.2	7.5	7.9	10.5	10.2	10.3	11.2	10.0	10.6	10.3	10.2	10.3
18	8.5	8.1	8.3	10.3	9.6	9.9	11.8	11.0	11.3	10.4	10.2	10.3
19	8.6	8.0	8.2	9.6	9.3	9.4	11.9	11.8	11.8	10.5	10.4	10.4
20	8.1	7.7	7.9	9.4	8.6	8.9	11.8	11.3	11.5	10.6	10.5	10.5
21	8.4	8.0	8.2	8.6	8.4	8.5	11.7	11.3	11.5	10.6	10.5	10.6
22	8.8	8.2	8.6	8.5	7.9	8.4	12.0	11.6	11.8	10.8	10.6	10.6
23	9.5	8.9	9.3	7.7	7.3	7.5	12.0	11.1	11.7	11.0	10.8	10.9
24	9.8	9.4	9.6	8.6	7.8	8.2	11.1	10.8	11.0	10.8	10.7	10.7
25	9.9	9.4	9.7	9.5	8.6	9.2	10.8	10.1	10.5	10.8	10.6	10.7
26	10.6	9.5	10.0	10.1	9.4	9.8	10.0	9.7	9.9	10.8	10.6	10.7
27	10.5	10.0	10.3	10.7	10.1	10.4	10.0	9.8	9.9	10.7	10.6	10.6
28	10.4	9.8	10.1	10.6	10.3	10.5	9.9	9.2	9.6	10.8	10.6	10.7
29	10.4	9.6	10.0	10.2	9.4	9.9	9.9	9.3	9.6	10.7	10.5	10.6
30	9.6	8.9	9.3	9.6	9.4	9.5	10.4	9.9	10.2	10.7	10.4	10.5
31	9.2	8.6	8.9	---	---	---	10.7	10.5	10.6	10.6	10.3	10.4
MONTH	10.6	5.4	8.0	11.0	6.6	9.2	12.0	9.0	10.6	11.6	9.8	10.6

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.8	10.5	10.6	12.5	11.2	11.9	11.0	9.2	10.2	8.1	7.2	7.6
2	10.8	10.4	10.6	12.6	11.3	12.1	10.2	8.6	9.2	7.6	7.2	7.4
3	11.2	10.2	10.5	12.6	11.1	12.0	9.0	8.6	8.8	8.2	7.3	7.7
4	10.6	10.3	10.5	12.6	11.0	12.0	8.6	8.1	8.3	8.2	7.7	7.9
5	10.9	10.6	10.8	12.4	10.8	11.8	8.7	8.0	8.4	7.6	7.5	7.5
6	10.9	10.7	10.9	11.7	9.8	10.9	8.8	8.3	8.5	7.9	7.4	7.6
7	10.7	9.9	10.3	12.3	9.6	11.0	8.6	8.2	8.3	8.0	7.9	8.0
8	9.8	9.4	9.7	11.2	9.2	10.2	8.7	8.1	8.4	8.2	7.9	8.0
9	9.3	8.9	9.1	---	---	---	8.6	8.2	8.4	8.4	8.2	8.3
10	8.9	8.2	8.5	---	---	---	8.7	8.3	8.5	8.5	8.2	8.3
11	8.7	8.5	8.6	---	---	---	8.9	8.4	8.7	8.3	8.1	8.2
12	9.2	8.9	9.1	---	---	---	9.1	8.9	9.0	8.1	7.9	8.0
13	9.6	9.4	9.5	---	---	---	9.0	8.8	8.9	7.8	7.6	7.7
14	9.9	9.7	9.8	---	---	---	8.8	8.6	8.7	7.6	7.4	7.5
15	10.4	10.1	10.3	---	---	---	8.7	8.4	8.6	7.5	7.3	7.4
16	11.0	10.6	10.8	15.3	13.3	14.4	8.9	8.3	8.7	7.6	7.2	7.4
17	11.4	11.1	11.2	13.8	11.1	12.4	9.1	8.9	9.0	7.6	7.1	7.4
18	11.9	11.6	11.7	13.7	10.5	12.1	9.1	8.8	8.9	7.7	7.4	7.6
19	12.4	11.9	12.2	11.3	9.6	10.3	9.0	8.8	8.9	7.9	7.6	7.8
20	12.6	11.7	12.3	9.8	9.5	9.7	8.9	8.3	8.6	8.0	7.7	7.9
21	12.0	11.0	11.5	---	---	---	8.3	7.4	8.1	7.7	7.5	7.6
22	11.7	11.5	11.6	---	---	---	---	---	---	7.8	6.9	7.6
23	11.4	10.4	10.9	---	---	---	---	---	---	6.6	5.1	5.8
24	11.8	9.6	11.0	---	---	---	---	---	---	5.5	4.6	5.0
25	11.9	10.8	11.3	---	---	---	---	---	---	6.3	5.1	5.8
26	12.5	11.0	11.7	---	---	---	9.1	8.4	8.8	6.6	5.9	6.3
27	12.8	11.4	12.1	---	---	---	8.4	7.8	8.1	7.4	6.1	6.7
28	12.7	11.4	12.1	---	---	---	8.4	7.5	8.0	7.8	6.4	7.0
29	---	---	---	10.3	9.8	10.1	8.1	7.4	7.8	7.7	7.4	7.6
30	---	---	---	11.3	9.1	10.3	8.5	8.0	8.2	7.7	7.4	7.5
31	---	---	---	10.9	9.5	10.4	---	---	---	7.7	7.3	7.5
MONTH	12.8	8.2	10.7	15.3	9.1	11.4	11.0	7.4	8.6	8.5	4.6	7.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	7.5	7.8	6.8	5.4	6.0	16.0	8.7	12.1	8.3	3.7	5.7
2	8.6	7.8	8.2	6.1	4.9	5.3	19.8	9.1	13.7	9.3	5.0	6.9
3	8.2	7.3	7.7	5.7	5.1	5.4	19.5	9.5	13.8	9.8	6.1	7.8
4	7.8	7.1	7.4	5.9	5.5	5.6	14.4	8.6	11.7	9.3	5.9	7.5
5	7.9	6.9	7.4	6.9	5.6	6.2	13.5	8.0	10.6	8.6	5.5	6.9
6	8.1	7.2	7.6	7.1	6.7	6.9	15.5	7.7	11.7	8.1	5.1	6.5
7	9.6	7.3	8.2	7.4	6.8	7.1	15.4	6.6	10.8	9.6	5.0	7.0
8	10.9	8.0	9.2	7.4	7.0	7.2	20.0	6.5	12.6	13.0	5.9	8.9
9	12.6	8.5	10.2	7.7	6.8	7.2	20.0	7.4	14.0	10.7	6.2	8.3
10	13.4	8.8	10.8	8.0	6.7	7.3	18.7	7.4	12.8	9.2	5.8	7.1
11	13.7	9.3	11.3	8.8	6.7	7.6	13.6	5.9	8.3	7.4	5.0	5.9
12	14.3	9.4	11.5	10.3	6.9	8.4	14.3	5.3	9.2	5.8	4.3	4.9
13	13.9	9.3	11.5	12.0	7.0	9.2	19.0	7.4	12.5	6.8	3.7	5.1
14	14.8	9.2	11.6	11.5	7.1	9.2	17.5	8.6	13.0	9.2	5.6	7.0
15	13.2	8.9	11.0	10.1	6.9	8.3	17.5	8.8	13.0	8.5	5.6	6.9
16	11.4	8.3	9.8	---	---	---	17.3	8.7	13.2	7.3	5.2	6.2
17	11.0	7.2	9.0	---	---	---	13.9	8.4	11.4	9.7	5.0	6.9
18	9.2	7.2	8.2	---	---	---	14.7	6.8	10.4	11.9	6.2	8.6
19	8.0	6.1	6.9	8.0	7.0	7.6	17.0	6.7	11.5	10.7	6.4	8.6
20	6.7	4.4	5.8	6.8	6.0	6.4	16.0	6.6	11.2	8.8	6.1	7.3
21	5.9	4.4	5.2	7.0	6.0	6.4	14.1	5.8	9.9	7.4	5.5	6.3
22	6.2	5.8	6.0	8.0	6.2	6.9	11.6	5.0	8.3	8.6	5.5	7.0
23	5.9	5.7	5.8	9.6	6.5	7.7	7.9	4.3	6.0	9.2	7.4	8.3
24	5.9	5.6	5.7	11.1	7.0	8.6	11.9	3.9	7.6	9.0	7.0	7.9
25	6.0	5.7	5.8	9.5	6.6	7.7	12.1	4.3	7.8	8.5	6.8	7.6
26	6.0	5.8	5.9	9.9	7.1	8.3	11.1	5.3	8.0	8.3	6.4	7.3
27	6.1	5.7	5.8	11.0	7.5	8.9	9.8	3.9	6.7	9.6	6.7	7.9
28	6.1	5.7	5.9	12.5	8.1	10.0	8.7	3.7	6.0	8.2	6.3	7.2
29	6.1	5.8	5.9	13.8	8.6	10.9	11.9	3.5	7.0	7.6	6.0	6.7
30	6.3	6.0	6.1	15.4	8.8	11.7	10.7	5.8	8.1	7.8	6.0	6.7
31	---	---	---	16.3	9.1	12.4	7.9	4.8	5.8	---	---	---
MONTH	14.8	4.4	8.0	16.3	4.9	7.9	20.0	3.5	10.3	13.0	3.7	7.1
YEAR	20.0	3.5	9.0									

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	827	789	517	531	680	720	761	533	622	610	684	878
2	818	785	567	546	551	716	778	367	628	592	681	826
3	792	791	589	566	575	728	598	296	636	544	682	754
4	788	780	607	593	543	735	688	270	419	568	698	733
5	776	772	633	612	577	740	630	363	543	578	712	795
6	788	766	645	626	594	754	626	418	587	592	721	832
7	817	773	663	647	621	750	622	455	622	597	695	831
8	843	743	678	658	617	752	453	464	636	622	712	817
9	841	747	677	665	634	---	476	464	650	639	738	828
10	835	738	707	686	661	---	487	446	658	661	750	855
11	807	742	733	683	666	---	517	438	668	684	750	856
12	812	738	732	686	675	---	562	443	682	694	738	858
13	818	730	756	688	684	---	594	449	690	703	747	834
14	818	715	774	687	684	---	596	460	688	706	733	797
15	773	767	779	698	705	---	481	458	685	708	740	843
16	765	775	532	700	678	762	476	448	692	699	759	867
17	770	731	548	708	646	756	515	438	691	694	784	862
18	793	740	543	724	648	748	536	487	702	602	785	888
19	814	751	595	737	655	743	563	499	719	655	773	834
20	818	769	541	754	665	742	581	486	616	466	761	824
21	810	754	470	754	679	---	602	517	509	484	774	825
22	778	736	533	740	672	---	624	312	515	522	780	836
23	759	599	507	584	670	---	638	390	504	578	784	775
24	752	503	468	626	668	---	634	442	515	584	759	799
25	751	564	538	644	676	---	642	496	554	599	790	831
26	782	592	471	644	692	---	656	522	589	603	800	817
27	776	623	511	661	692	---	671	542	610	617	790	782
28	784	620	506	669	708	---	700	594	627	661	795	767
29	775	583	475	681	---	810	702	604	646	670	792	776
30	785	471	528	698	---	818	546	611	604	676	812	825
31	788	---	544	688	---	778	---	629	---	682	869	---
MEAN	795	706	592	664	651	753	599	463	617	622	754	822

WTR YR 1983 MEAN 666 MAX 888 MIN 270

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.8	7.8	8.0	8.0	8.1	8.0	7.7	7.9	7.7	8.5	7.7
2	7.8	7.8	7.8	8.0	7.9	8.1	7.9	7.5	7.9	7.7	8.6	7.8
3	7.9	7.8	7.8	8.0	7.9	8.0	7.8	7.4	7.8	7.7	8.7	8.0
4	8.0	7.8	7.8	8.0	8.1	7.9	7.8	7.4	7.6	7.7	8.7	8.0
5	8.0	7.9	7.8	8.0	8.1	7.9	7.8	7.5	7.8	7.8	8.5	7.9
6	8.0	7.9	7.9	8.0	8.1	7.9	7.7	7.5	7.8	7.8	8.5	7.9
7	7.9	7.8	8.0	7.9	8.1	7.9	7.7	7.6	7.9	7.8	8.5	8.0
8	7.8	7.9	8.0	8.0	8.1	7.9	7.7	7.7	8.0	7.8	8.4	8.3
9	7.8	7.9	7.9	8.0	8.1	---	7.7	7.7	8.1	7.8	8.9	8.3
10	7.8	7.9	8.0	7.9	8.0	---	7.7	7.7	8.2	7.8	8.9	8.3
11	7.9	7.8	8.0	7.9	8.0	---	7.8	7.6	8.3	7.8	8.6	8.2
12	7.8	7.8	8.0	8.0	8.0	---	7.8	7.6	8.4	7.9	8.4	8.1
13	7.7	7.9	8.0	8.0	8.0	---	7.8	7.6	8.4	8.0	8.3	8.1
14	7.7	8.0	8.0	8.0	8.0	---	7.8	7.6	8.4	8.1	7.9	8.2
15	7.8	7.9	7.9	8.0	8.0	---	7.8	7.7	8.4	8.1	8.0	8.2
16	7.8	7.9	7.9	8.0	8.0	8.4	7.8	7.7	8.3	7.9	8.5	8.0
17	7.9	7.9	7.8	8.0	8.0	8.4	7.9	7.7	8.1	7.9	8.6	8.0
18	7.9	7.9	7.9	8.0	8.0	8.3	7.9	7.7	7.9	8.1	8.5	8.1
19	7.9	7.9	8.0	8.0	8.0	8.2	8.0	7.7	7.8	7.6	8.4	8.2
20	7.9	7.8	7.9	8.0	8.0	8.1	7.9	7.7	7.6	7.6	8.2	8.1
21	7.9	7.8	7.9	8.0	7.9	---	7.9	7.7	7.4	7.6	8.1	8.0
22	7.9	7.8	8.0	7.9	8.0	---	7.8	7.6	7.6	7.7	8.1	7.9
23	8.0	7.6	8.0	8.0	8.0	---	7.8	7.5	7.6	7.7	8.2	8.0
24	8.0	7.7	7.9	8.0	8.0	---	7.9	7.5	7.6	7.7	8.1	7.9
25	8.1	7.9	7.8	8.0	8.1	---	7.9	7.6	7.6	7.6	8.1	7.8
26	8.2	8.0	7.8	8.0	8.1	---	7.8	7.6	7.7	7.9	8.5	7.7
27	8.0	8.1	7.8	8.0	8.1	---	7.8	7.7	7.7	7.9	8.2	7.8
28	7.9	8.1	7.7	8.0	8.0	---	7.8	7.7	7.7	8.1	8.0	7.8
29	8.0	8.0	7.8	8.0	---	8.0	7.8	7.8	7.7	8.3	7.8	7.7
30	7.9	7.8	7.9	7.9	---	8.0	7.8	7.8	7.8	8.4	8.2	7.7
31	7.8	---	8.0	8.0	---	8.0	---	7.8	---	8.5	7.8	---
MEAN	7.9	7.9	7.9	8.0	8.0	8.1	7.8	7.6	7.9	7.9	8.4	8.0

WTR YR 1983 MEAN 7.9 MAX 8.9 MIN 7.4

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	16.0	8.5	5.5	4.0	7.5	10.5	15.5	16.5	24.5	27.0	25.5
2	20.0	17.0	9.5	5.0	5.0	8.0	11.0	15.0	16.5	25.5	26.5	25.0
3	21.0	17.5	11.0	5.0	5.5	9.0	9.5	15.0	17.0	26.5	26.5	25.0
4	21.0	14.0	12.0	4.0	3.5	10.5	9.5	14.0	16.0	25.5	27.0	25.0
5	21.0	11.5	12.5	3.5	2.5	12.0	10.0	15.0	18.0	25.5	26.0	25.5
6	21.0	10.0	11.5	4.0	2.5	13.5	10.5	15.0	19.5	24.5	26.0	26.0
7	21.5	9.5	10.0	5.0	2.5	14.5	12.0	15.5	19.5	23.5	27.0	25.5
8	21.5	9.5	9.0	5.0	2.5	15.0	10.5	15.0	19.5	23.5	27.5	24.5
9	21.5	10.0	8.0	4.5	3.0	---	10.0	14.0	20.5	24.0	27.5	24.5
10	22.0	10.5	6.0	5.0	3.5	---	10.0	14.0	21.0	24.5	27.0	24.5
11	21.5	11.5	6.0	6.0	3.0	---	9.5	14.5	22.0	25.0	25.5	25.0
12	19.5	12.0	5.0	5.0	3.0	---	9.5	15.5	22.5	25.5	24.5	25.0
13	18.5	10.0	3.5	4.5	3.5	---	10.0	16.0	23.5	26.5	24.5	25.0
14	17.0	8.0	3.5	4.5	4.0	---	11.0	16.5	24.0	27.5	24.5	23.0
15	16.0	8.0	5.0	4.0	4.0	---	10.5	16.5	24.5	27.5	24.5	21.5
16	15.0	7.5	5.5	3.0	5.0	12.5	10.0	15.5	24.5	26.5	25.0	21.0
17	13.5	7.5	5.5	2.5	5.5	11.5	9.5	15.0	24.0	27.0	25.5	21.0
18	13.5	8.5	4.5	1.5	5.5	11.5	9.0	15.5	23.5	25.5	25.5	21.5
19	14.0	9.5	4.0	1.0	5.5	11.5	8.5	15.0	23.0	26.5	26.5	22.5
20	14.0	11.0	4.5	1.0	6.5	10.5	8.5	15.0	23.0	27.0	28.0	23.0
21	12.5	12.0	4.0	1.0	7.5	---	9.5	16.0	22.5	28.0	28.5	21.0
22	12.0	13.0	3.5	2.0	8.0	---	10.5	16.5	22.5	29.0	29.0	18.5
23	11.5	13.0	4.0	1.5	8.5	---	12.5	17.0	23.0	29.0	28.0	17.5
24	11.0	11.5	6.0	2.5	7.5	---	12.5	17.5	23.5	28.0	27.5	17.0
25	11.0	9.0	7.5	3.0	6.5	---	11.5	17.5	24.5	26.0	27.5	17.0
26	11.0	8.0	9.5	2.5	6.0	---	13.0	17.0	25.0	25.5	27.5	18.0
27	11.0	7.5	8.5	2.5	6.0	---	14.5	16.5	25.0	25.5	27.5	18.5
28	11.5	7.0	9.5	2.5	6.5	---	16.5	16.5	25.0	26.5	27.0	19.0
29	12.0	8.0	8.5	3.0	---	9.0	17.0	16.0	24.5	27.0	26.5	19.5
30	12.5	7.5	7.0	4.5	---	8.5	16.0	16.5	24.0	27.5	26.5	19.0
31	14.0	---	6.0	4.5	---	10.0	---	17.0	---	27.5	26.5	---
MEAN	16.0	10.5	7.0	3.5	5.0	11.0	11.0	15.5	22.0	26.0	26.5	22.0

WTR YR 1983 MEAN 15.0 MAX 29.0 MIN 1.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.5	9.7	10.7	10.6	12.1	10.3	7.7	7.7	5.9	11.7	5.2
2	7.4	7.7	10.1	10.6	10.6	12.3	9.3	7.5	8.2	5.2	12.9	6.5
3	8.0	7.0	10.0	10.6	10.3	12.2	8.8	7.6	7.8	5.4	13.3	7.8
4	7.7	6.8	9.5	10.5	10.5	12.2	8.3	7.9	7.4	5.6	12.1	7.7
5	8.0	8.6	9.2	10.4	10.8	12.0	8.4	7.5	7.3	5.8	10.5	6.8
6	8.4	9.2	9.2	10.0	10.9	11.1	8.5	7.6	7.5	6.9	11.2	6.5
7	5.9	9.6	10.1	---	10.3	10.9	8.3	8.0	7.8	7.1	10.7	6.5
8	6.7	10.0	10.4	---	9.7	10.2	8.5	8.0	8.8	7.1	10.7	8.2
9	6.4	10.4	10.4	---	9.0	---	8.4	8.4	9.5	7.1	13.6	8.2
10	6.0	10.6	10.8	---	8.6	---	8.6	8.3	10.5	7.2	12.8	6.9
11	6.5	10.0	10.8	---	8.6	---	8.8	8.2	11.2	7.4	7.9	5.7
12	6.1	9.1	11.3	---	9.1	---	9.0	8.0	11.3	7.9	7.7	4.8
13	6.1	9.3	11.6	11.5	9.5	---	8.9	7.7	11.5	8.8	11.2	4.8
14	6.3	10.2	11.7	11.0	9.8	---	8.7	7.5	11.4	9.3	13.2	6.7
15	7.0	10.0	11.6	10.5	10.3	---	8.6	7.4	11.1	8.3	12.9	6.7
16	7.3	---	11.4	10.4	10.8	14.5	8.9	7.5	9.9	---	13.5	6.2
17	8.0	10.3	10.6	10.3	11.2	12.5	9.0	7.5	8.9	---	11.6	6.3
18	8.3	9.9	11.3	10.3	11.7	11.9	9.0	7.6	8.3	---	10.1	7.9
19	8.2	9.4	11.9	10.4	12.2	10.4	8.9	7.7	6.9	7.7	10.8	8.7
20	7.9	8.8	11.4	10.5	12.3	9.7	8.7	8.0	6.0	6.4	11.1	7.3
21	8.2	8.5	11.6	10.6	11.5	---	8.1	7.6	5.1	6.3	10.0	6.2
22	8.7	8.4	11.9	10.6	11.6	---	---	7.6	6.0	6.7	8.4	6.7
23	9.3	7.5	11.9	10.9	11.0	---	---	5.8	5.8	7.3	6.0	8.4
24	9.6	8.2	11.0	10.7	11.1	---	---	5.1	5.8	8.2	7.4	7.9
25	9.7	9.4	10.5	10.6	11.4	---	---	5.8	5.8	7.9	7.7	7.5
26	10.3	9.9	9.9	10.7	11.8	---	8.7	6.3	5.9	7.8	8.2	7.3
27	10.2	10.4	9.9	10.6	12.2	---	8.1	6.7	5.8	8.5	6.8	7.8
28	10.0	10.5	9.7	10.7	12.2	---	8.0	6.8	5.9	9.5	6.0	7.2
29	9.9	10.0	9.6	10.6	---	10.1	7.8	7.6	5.9	10.5	6.0	6.7
30	9.4	9.5	10.2	10.4	---	10.1	8.1	7.6	6.1	11.3	8.2	6.6
31	8.9	---	10.5	10.4	---	10.6	---	7.5	---	12.4	5.5	---
MEAN	8.0	9.2	10.6	10.6	10.7	11.4	8.6	7.4	7.9	7.7	10.0	6.9

WTR YR 1983 MEAN 9.0 MAX 14.5 MIN 4.8

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 (6.4 km) north of Dublin. DRAINAGE AREA, 979 mi^2 (2,536 km^2). PERIOD OF RECORD, October 1924 to current year. GAGE, water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by city of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum.

Reservoir is formed by concrete dam; dam completed and storage began in 1924. Usable capacity, 14,500 acre-ft (5.55 hm^3), between elevations, 789.5 ft (240.64 m) (sill of outlet gate), and 845 ft (258 m) (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft (3.06 hm^3), between elevations 845 ft (258 m) (crest of spillway), and 847.9 ft (258.44 m) (crest of flashboards). Dead storage below elevation 789.5 ft (240.64 m), 55 acre-ft (67,800 m^3). 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 (29.9 hm^3) Jan. 22, 1959, elevation, 854.40 ft (260.421 m); minimum, 43 acre-ft (53,000 m^3) Feb. 11, 1945, elevation, 791.97 ft (241.392 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 19,390 acre-ft (23.9 hm^3) June 20, elevation, 850.27 ft (259.162 m); minimum, 12,110 acre-ft (14.9 hm^3) Sept. 30, elevation, 841.70 ft (256.550 m).

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 (10.0 km) northwest of State Capitol building in Columbus, and 6.5 mi (10.5 km) upstream from Olentangy River. DRAINAGE AREA, 1,044 mi^2 (2,704 km^2). PERIOD OF RECORD, January 1921 to current year. GAGE, water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by city of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft (207.380 m) National Geodetic Vertical Datum, adjustment of 1929 (levels by city of Columbus). Prior to Oct. 4, 1940 nonrecording gage at same site and datum.

Reservoir formed by concrete dam; dam completed and storage began in 1905. Usable capacity, 3,700 acre-ft (4.56 hm^3) between elevations, 735.4 ft (224.15 m) (lowest outlets), and 753.4 ft (229.64 m) (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft (925,000 m^3), between elevations, 753.4 ft (229.64 m) (crest of spillway) and 755.6 ft (230.31 m) (crest of flashboards). Dead storage below elevation, 735.4 ft (224.15 m), 239 acre-ft (295,000 m^3). 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 (9.24 hm^3) Jan. 22, 1959, elevation, 763.91 ft (232.840 m); minimum, 38 acre-ft (46,900 m^3) Jan. 24, 1945, elevation, 735.78 ft (224.266 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 5,500 acre-ft (6.78 hm^3) May 3, elevation, 758.53 ft (231.199 m); minimum, 3,550 acre-ft (4.64 hm^3) Sept. 13, elevation, 752.96 ft (229.502 m).

03225000 DELAWARE LAKE NEAR DELAWARE.--Lat 40°21'31", long 83°04'10", in T.5 N., R.19 W., Delaware County, Hydrologic Unit 05060001, in gate house of dam on Olentangy River, 4.0 mi (6.4 km) north of Delaware. DRAINAGE AREA, 386 mi^2 (1,000 km^2). PERIOD OF RECORD, March 1951 to September 1983 (discontinued) Prior to October 1971 published as Delaware Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum (levels by Corps of Engineers).

Lake is formed by earthfill dam with concrete spillway; storage began Mar. 20, 1951. Usable capacity 24,500 acre-ft (30.2 hm^3) between elevation, 884.0 ft (269.44 m) (lowest outlet) and 922.0 ft (281.03 m) (crest of spillway). Additional flood-control storage above elevation 922.0 ft (281.03 m) by taintor gates on spillway, 107,500 acre-ft (133 hm^3). Normal conservation pool storage 8,400 acre-ft (10.4 hm^3), elevation, 910.0 ft (277.37 m) winter, and 14,000 acre-ft (17.3 hm^3), elevation, 915.0 ft (278.89 m) summer. No dead storage. Figures given herein represent usable contents. Lake is used primarily for flood control although the conservation pool is operated to augment low flow for water supply, pollution abatement, and for recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceways through dam, but above spillway level, taintor gates on spillway can be used. Capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 113,000 acre-ft (139 hm^3) Jan. 25, 1959, elevation, 944.75 ft (287.960 m); minimum, 2,070 acre-ft (2.55 hm^3) Feb. 13, 1970, elevation, 899.43 ft (274.146 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 45,420 acre-ft (56.00 hm^3) May 5, elevation, 931.14 ft (283.811 m); minimum, 8,110 acre-ft (10.00 hm^3) Dec. 31, elevation, 909.68 ft (277.270 m).

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 (0.8 km) northeast of Central College, and 12 mi (19 km) northeast of Columbus. DRAINAGE AREA, 190 mi^2 (492 km^2). PERIOD OF RECORD, March 1955 to current year. REVISED RECORDS, WRD OH-78-1: 1975 (M). GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 10, 1956, nonrecording gage at same site and datum.

Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage began in March 1955. Usable capacity, 60,130 acre-ft (74.1 hm^3) between elevations 830.0 ft (252.98 m) (lowest outlet), and 890.0 ft (271.27 m) (crest of spillway). Additional flood-control storage above elevation 890.0 ft (271.27 m) by bascule gates installed in May 1970, 25,750 acre-ft (31.7 hm^3). Dead storage below elevation 830.0 ft (252.98 m), 214 acre-ft (264,000 m^3). 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, 83,258 acre-ft (103 km^3), revised, Feb. 24, 1975, elevation, 897.26 ft (273.485 m); minimum, 19,010 acre-ft (23.4 hm^3) Mar. 1, 1964, elevation, 868.58 ft (264.743 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 76,690 acre-ft (94.6 hm^3) May 4, elevation, 895.40 ft (272.918 m); minimum, 20,190 acre-ft (24.9 hm^3) Nov. 20, elevation, 869.64 ft (265.066 m).

RESERVOIRS IN SCIOTO RIVER BASIN--Continued

03228804 ALUM CREEK LAKE NEAR WORTHINGTON.--Lat 40°11'03", long 82°57'50", Delaware County, Hydrologic Unit 05060001, in outlet structure of dam on Alum Creek, 180 ft (54.9 m) upstream from Lewis Center Road, 0.3 mi (0.48 km) west of Africa, 4.2 mi (6.84 km) northwest of Westerville, and 7.0 mi (11.3 km) north of Worthington. DRAINAGE AREA, 122 mi^2 (316 km^2). PERIOD OF RECORD, January 1975 to September 1983 (discontinued). GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake formed by earthfill dam with concrete gravity channel section; dam completed and storage began in 1974, station established Jan. 16, 1975. Usable capacity, 48,940 acre-ft (60.3 hm^3) between elevation 835.0 ft (254.51 m) (lowest outlet) and 878.0 ft (267.61 m) (crest of spillway). Additional flood-control storage above 878.0 ft (267.61 m) by taintor gates on spillway 85,000 acre-ft (104.8 hm^3). Normal conservation pool storage 71,120 acre-ft (87.7 hm^3) elevation 885.0 ft (269.75 m) winter, and 80,860 acre-ft (99.7 hm^3) elevation 888.0 ft (270.66 m) summer. Dead storage 879 acre-ft (1.08 hm^3) below 835.0 ft (254.51 m). Figures given herewith represent usable contents. Lake is used for flood control, recreation, water supply, and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceway through dam, but above spillway level, taintor gates can be used. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 96,750 acre-ft (119 hm^3) Sept. 17, 1979, elevation, 892.40 ft (272.004 m); minimum, 5,860 acre-ft (7.23 hm^3) Jan. 25, 1975, elevation, 849.59 ft (258.955 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 98,170 acre-ft (121 hm^3) May 5, elevation, 892.77 ft (272.116 m); minimum, 71,180 acre ft (87.8 hm^3) Feb. 6, elevation, 885.02 ft (269.754 m).

03230890 DEER CREEK LAKE NEAR PANCOASTBURG.--Lat 39°37'20", long 83°12'58", Pickaway County, Hydrologic Unit 05060002, in outlet tower of dam on Deer Creek, 1,000 ft (305 m) upstream from Crownover Mill Road, and 2.8 mi (4.5 km) east of Pancoastburg. DRAINAGE AREA, 277 mi^2 (717 km^2). PERIOD OF RECORD, April 1968 to September 1983 (discontinued). Prior to October 1971 published as Deer Creek Reservoir. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake formed by earthfill dam with concrete spillway; dam completed in 1968 and storage began April 1, 1968. Usable capacity 26,440 acre-ft (32.6 hm^3) between elevation 772.0 ft (235.31 m) (lowest outlet) and 814.0 ft (248.11 m) crest of spillway. Additional flood control storage above 814.0 ft (248.11 m) by taintor gates on spillway 76,100 acre-ft (93.8 hm^3). Normal conservation pool storage 6,420 acre-ft (7.92 hm^3), elevation, 796.0 ft (242.62 m) winter, and 21,030 acre-ft (25.9 hm^3), elevation, 810.0 ft (246.89 m) summer. Dead storage 2 acre-ft (2,470 m^3) below 772.0 ft (235.31 m). Figures given herein represent usable contents. Lake is used primarily for flood control although the conservation pool is operated to augment low flow for water supply, pollution abatement and for recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceways through dam, but above spillway level, taintor gates on spillway can be used. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 71,830 acre-ft (88.6 hm^3) May 31, 1968, elevation, 835.25 ft (254.584 m); minimum, 1,140 acre-ft (1.41 hm^3) Jan. 8, 1970, elevation, 784.75 ft (239.192 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 52,120 acre-ft (64.3 hm^3) May 6, elevation, 827.90 ft (252.344 m); minimum, 6,350 acre-ft (7.83 hm^3) Feb. 6, elevation, 795.90 ft (242.590 m).

03232460 PAINT CREEK LAKE NEAR BAINBRIDGE.--Lat 39°15'09", long 83°20'59", Highland County, Hydrologic Unit 05060003, in outlet structure of dam on Paint Creek, 1.9 mi (3.1 km) upstream from Rocky Fork, and 4.5 mi (7.2 km) northwest of Bainbridge. DRAINAGE AREA, 570 mi^2 (1,476 km^2). PERIOD OF RECORD, April 1974 to September 1983 (discontinued). GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake is formed by earth and rock embankment dam with concrete spillway. Dam completed in 1974 and storage began April 8, 1974. Usable capacity 37,420 acre-ft (46.1 hm^3) between elevation 750.0 ft (228.60 m) (lowest outlet), and 810.0 ft (246.89 m) (crest of spillway). Additional flood control storage above elevation 810.0 ft (246.89 m) by three taintor gates on spillway, 107,600 acre-ft (132.67 hm^3). Seasonal pool storage 20,310 acre-ft (25.0 hm^3) elevation, 798.0 ft (243.23 m). Dead storage 5 acre-ft (6,170 m^3) below elevation 750.0 ft (228.60 m). Figures given herein represent usable contents. Lake is used primarily for flood control although seasonal pool is used for water quality control, water supply, recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceway through dam but above spillway level taintor gates on spillway can be used. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 111,900 acre-ft (138 hm^3) Feb. 28, 1979, elevation, 837.37 ft (255.230 m); minimum since initial filling was completed on May 6, 1974, 8,930 acre-ft (11.0 hm^3) Mar. 28, 1975, elevation, 786.03 ft (239.582 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 99,390 acre-ft (122 hm^3) May 3, elevation, 834.05 ft (254.218 m); minimum, 9,610 acre-ft (11.8 hm^3) Dec. 13, elevation, 786.96 ft (239.865 m).

RESERVOIRS IN SCIOTO RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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			0322500 DELAWARE LAKE		
Sept. 30	846.79	15,960	--	753.75	3,820	--	915.38	14,490	--
Oct. 31	844.38	14,040	-1,920	755.10	4,280	+460	914.92	13,900	-590
Nov. 30	848.33	17,390	+3,350	755.83	4,520	+240	910.91	9,310	-4,590
Dec. 31	848.69	17,750	+360	756.36	4,700	+180	909.83	8,250	-1,060
CAL YR 1982	--	--	+360	--	--	+90	--	--	-360
Jan. 31	848.19	17,250	-500	755.67	4,470	-230	910.71	9,110	+860
Feb. 28	848.14	17,200	-50	755.57	4,440	-30	909.92	8,330	-780
Mar. 31	848.22	17,280	+80	755.70	4,480	+40	910.31	8,710	+380
Apr. 30	848.31	17,370	+90	755.44	4,730	+250	915.94	15,220	+6,510
May 31	848.29	17,350	-20	755,73	4,490	-240	915.30	14,390	-830
June 30	848.38	17,440	+90	755.94	4,560	+70	915.25	14,320	-70
July 31	847.41	16,520	-920	755.12	4,280	-280	914.82	13,770	-550
Aug. 31	844.68	14,260	-2,260	753.70	3,800	-480	913.02	11,620	-2,150
Sept. 30	841.70	12,110	-2,150	754.16	3,960	+160	912.67	11,200	-420
WTR YR 1983	--	--	-3,850	--	--	+140	--	--	-3,290
	03228400 HOOVER RESERVOIR			03228804 ALUM CREEK LAKE			03230890 DEER CREEK LAKE		
Sept. 30	876.70	30,180	--	887.71	79,890	--	808.95	19,710	--
Oct. 31	872.40	23,540	-6,640	886.05	74,430	-5,460	808.31	18,920	-790
Nov. 30	874.75	26,950	+3,410	885.40	72,380	-2,050	800.97	10,760	-8,160
Dec. 31	886.90	51,930	+24,980	885.45	72,540	+160	796.32	6,660	-4,100
CAL YR 1982	--	--	+19,780	--	--	+950	--	--	+10
Jan. 31	887.15	52,580	+650	885.40	72,380	-160	796.35	6,680	+20
Feb. 28	888.35	55,720	+3,140	885.12	71,500	-880	796.02	6,430	-250
Mar. 31	887.41	53,250	-2,470	885.54	72,820	+1,320	797.56	7,630	+1,200
Apr. 30	893.14	69,110	+15,860	888.82	83,670	+10,850	810.24	21,340	+13,710
May 31	893.26	69,500	+390	888.27	81,780	-1,890	810.18	21,260	-80
June 30	893.05	68,820	-680	888.20	81,540	-240	810.26	21,360	+100
July 31	891.65	64,680	-4,140	887.93	80,620	-920	810.22	21,310	-50
Aug. 31	888.39	55,820	-8,860	887.34	78,650	-1,970	809.98	21,000	-310
Sept. 30	885.23	47,680	-8,140	886.64	76,350	-2,300	809.58	20,500	-500
WTR YR 1983	--	--	+17,500	--	--	-3,540	--	--	+790

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03232460 PAINT CREEK LAKE		
Sept. 30	796.29	18,330	--
Oct. 31	790.66	12,650	-5,680
Nov. 30	788.20	10,570	-2,080
Dec. 31	788.19	10,560	-10
CAL YR 1982	--	--	+390
Jan. 31	788.47	10,790	+230
Feb. 28	787.80	10,250	-540
Mar. 31	787.87	10,310	+60
Apr. 30	799.42	22,040	+11,730
May 31	798.53	20,950	-1,090
June 30	798.36	20,740	-210
July 31	797.74	20,000	-740
Aug. 31	796.35	18,400	-1,600
Sept. 30	795.39	17,340	-1,060
WTR YR 1983	--	--	-990

03237280 UPPER TWIN CREEK AT MCGAW, OH

(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--Lat 38°38'37", long 83°12'57", Scioto County, Hydrologic Unit 05090201, on right bank, 0.3 mi (0.5 km) downstream from Brown Run, 0.3 mi (0.5 km) upstream from Tucker Run, 0.7 mi (1.1 km) upstream from bridge on U.S. Highway 52 at McGaw, 2.7 mi (4.3 km) northeast of Buena Vista, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.-- 12.2 mi^2 (31.6 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 543.41 ft (165.631 m) National Geodetic Vertical Datum of 1929. Ohio Department of Highways bench mark. Prior to July 21, 1972 at site 0.7 mi (1.1 km) downstream at datum 23.41 ft (7.135 m) lower.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--20 years, 13.7 ft^3 /s (0.388 m^3 /s), 15.25 in/yr (387) mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft^3 /s (99.1 m^3 /s) Mar. 4, 1964, gage height, 9.7 ft (2.96 m), in gage well, 10.2 ft (3.11 m), from outside highwater mark 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 (3.542 m), discharge, 7,230 ft^3/s (205 m^3/s), on basis of contracted-opening and flow over road measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft^3/s (12.7 m^3/s) and maximums (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 8	0945	1,610	45.6	3.25	0.991	May 2	2330	*1,900	53.8	*3.60	1.097
May 1	1515	1,230	34.8	2.75	0.838	May 3	1630	689	19.5	2.09	0.637

No flow all or part of each day Sept. 8-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.05	2.1	5.0	11	5.6	6.5	369	5.6	3.2	.06	.06
2	.10	.05	2.4	4.5	29	5.6	8.6	436	5.0	2.7	.06	.06
3	.10	.10	2.1	4.0	30	5.1	17	584	7.7	2.2	.06	.06
4	.06	.14	1.9	3.8	20	5.1	19	195	19	2.2	.06	.02
5	.06	.14	1.7	3.7	10	4.8	17	60	13	3.0	.06	.02
6	.06	.20	1.8	3.4	8.2	5.4	14	35	7.7	2.7	.16	.02
7	.05	.22	1.8	3.4	7.0	6.3	22	23	5.9	2.0	.06	.02
8	.05	.22	1.7	3.3	6.0	6.3	260	40	4.7	1.7	.06	.01
9	.05	.22	1.5	3.2	5.2	6.3	78	35	3.8	1.3	.02	.01
10	.07	.22	.80	3.5	4.6	6.0	49	24	3.2	.71	.02	.00
11	.06	.19	.70	3.6	4.1	6.0	35	18	3.0	.36	1.5	.00
12	.05	.24	.66	3.5	3.9	6.3	25	12	2.5	.36	1.7	.00
13	.04	.26	.62	3.2	3.7	6.3	20	8.9	2.2	.16	1.5	.00
14	.03	.26	.60	3.0	4.2	6.5	33	7.3	2.0	.16	1.3	.00
15	.03	.26	9.9	2.7	9.0	6.3	80	14	1.7	.16	.71	.00
16	.03	.26	48	2.5	19	6.0	43	78	1.7	.06	.36	.00
17	.03	.26	16	2.4	21	5.8	28	53	2.0	.06	.16	.00
18	.03	.26	11	2.4	18	6.3	19	26	3.2	2.7	.16	.00
19	.03	.26	14	2.3	16	6.7	14	42	2.7	2.7	.16	.00
20	.04	.28	21	2.3	13	6.7	10	48	2.2	2.0	.06	.00
21	.05	.43	15	5.8	11	8.1	10	46	2.0	1.7	.06	.02
22	.04	.51	11	58	10	8.1	10	51	1.7	1.3	.06	.01
23	.05	.65	10	49	9.5	7.8	18	36	1.5	.71	.06	.00
24	.05	.78	12	29	8.3	7.5	109	20	.71	.71	.06	.00
25	.05	.60	15	19	7.5	7.5	66	12	.71	.36	.02	.00
26	.05	.46	36	14	6.7	7.0	38	8.1	.36	.36	.02	.00
27	.05	.43	30	12	6.0	7.3	28	6.2	.36	.36	.02	.00
28	.05	1.3	23	10	6.0	7.5	27	5.3	.36	.16	.06	.00
29	.05	3.3	16	9.2	---	7.0	75	8.5	3.2	.16	.06	.00
30	.05	2.2	9.2	10	---	6.5	66	6.9	3.0	.16	.06	.00
31	.05	---	6.6	11	---	6.5	---	5.9	---	.06	.06	---
TOTAL	1.61	14.75	324.08	292.7	307.9	200.2	1245.1	2314.1	112.70	36.47	8.77	.31
MEAN	.052	.49	10.5	9.44	11.0	6.46	41.5	74.6	3.76	1.18	.28	.010
MAX	.10	3.3	48	58	30	8.1	260	584	19	3.2	1.7	.06
MIN	.03	.05	.60	2.3	3.7	4.8	6.5	5.3	.36	.06	.02	.00
CFSM	.004	.04	.86	.77	.90	.53	3.40	6.12	.31	.10	.02	.001
IN.	.00	.04	.99	.89	.94	.61	3.80	7.06	.34	.11	.03	.00

CAL YR 1982 TOTAL 3177.00 MEAN 8.70 MAX 189 MIN .03 CFSM .71 IN 9.69
WTR YR 1983 TOTAL 4858.69 MEAN 13.3 MAX 584 MIN .00 CFSM 1.09 IN 14.81

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

WATER-QUALITY RECORDS

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

PERIOD OF RECORD.--
WATER TEMPERATURES: Water years 1963-66, 1967-70, 1972-1982.
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.--
WATER TEMPERATURES: Maximum, 36.0°C July 20, 21, 1977; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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 12...	1230	.06	155	7.1	16.0	17.0	3.0	10.0	104	210
DEC 09...	1200	1.6	105	7.2	4.0	6.0	<1.0	12.5	101	25
FEB 22...	1100	11	83	6.8	4.0	6.0	<1.0	12.5	102	2
MAY 03...	1300	417	60	7.0	20.0	13.0	28	10.2	100	310
JUN 08...	1130	4.9	80	6.7	22.0	17.0	3.0	9.4	99	24
AUG 10...	1130	.02	155	7.1	27.0	26.5	1.0	7.7	97	7

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 12...	200	64	34	11	8.9	5.1	2.3	30	40	4.5
DEC 09...	80	42	25	7.6	5.7	3.3	1.8	18	28	3.4
FEB 22...	33	31	23	5.0	4.6	3.1	1.6	9.0	24	1.4
MAY 03...	1400	22	16	3.5	3.1	1.3	1.6	6.0	19	1.2
JUN 08...	95	32	19	5.3	4.5	3.1	1.8	13	23	1.5
AUG 10...	240	52	26	9.1	7.2	4.2	2.9	26	33	3.5

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 12...	<.1	8.4	106	.21	.020	.03	.20	<.010	<.010	<.010
DEC 09...	.1	8.7	77	.33	<.010	.01	.10	<.010	<.010	<.010
FEB 22...	<.1	10	58	.21	<.010	.01	.10	<.010	<.010	<.010
MAY 03...	<.1	8.5	50	.28	<.010	--	.20	.030	<.010	<.010
JUN 08...	<.1	10	69	<.10	<.010	--	<.10	<.020	.020	<.010
AUG 10...	<.1	11	92	<.10	<.010	--	<.10	.020	<.010	<.010

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT											
12...	1230	.06	70	1	39	<1	<1	3	<3	2	7
DEC											
09...	1200	1.6	--	--	--	--	--	--	--	--	--
FEB											
22...	1100	11	--	--	--	--	--	--	--	--	--
MAY											
03...	1300	417	<10	<1	27	<1	<1	2	<3	4	<3
JUN											
08...	1130	4.9	--	--	--	--	--	--	--	--	--
AUG											
10...	1130	.02	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
12...	1	<4	3	.1	<10	2	<1	<1	64	<6.0	<4
DEC											
09...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	3	<4	5	<.1	<10	3	<1	<1	26	<6.0	<3
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
OCT										
12...	1230	.06	<2.4	<.4	3.6	<.4	3.4	<.4	.07	.14
DEC										
09...	1200	1.6	--	--	--	--	--	--	--	--
FEB										
22...	1100	11	--	--	--	--	--	--	--	--
MAY										
03...	1300	417	--	--	--	--	--	--	--	--
JUN										
08...	1130	4.9	--	--	--	--	--	--	--	--
AUG										
10...	1130	.02	--	--	--	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
12...	1230	.06	17.0	15	.00
DEC					
09...	1200	1.6	6.0	1	.00
FEB					
22...	1100	11	6.0	1	.03
MAY					
03...	1300	417	13.0	40	45
JUN					
08...	1130	4.9	17.0	2	.03
AUG					
10...	1130	.02	26.5	2	.00

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 (0.5 km) downstream from Cedar Run, 7.0 mi (11.3 km) east of West Union, and 7.1 mi (11.4 km) upstream from Beasley Fork.

DRAINAGE AREA.--387 mi^2 (1,002 km^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 (155.63 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Water-quality data collected at this site 1965 to 1977; Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--52 years, 455 ft^3/s (12.89 m^3/s), 15.97 in/yr (406 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,200 ft^3/s (1,680 m^3/s) Mar. 10, 1964, gage height, 27.91 ft (8.507 m), from rating curve extended above 22,000 ft^3/s (623 m^3/s) on basis of slope-area measurement at gage heights 22.70 ft (6.919 m), 26.5 ft (8.077 m), and 27.91 ft (8.507 m); no flow Sept. 13-23, 27, 28, 1955 and for part of each day Sept. 17, 18, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft^3/s (312 m^3/s) and maximums (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	1815	*18000	510	*16.56	5.047	May 22	1915	17000	481	16.12	4.913

Minimum discharge, 0.28 ft^3/s (0.01 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.8	400	226	307	121	88	4430	214	110	5.2	1.4
2	4.7	5.0	300	188	1230	114	133	3560	165	97	5.2	1.4
3	4.4	7.6	230	163	1270	106	270	12200	300	60	3.6	1.3
4	4.1	16	180	141	647	100	355	4440	2950	55	3.0	1.1
5	3.8	23	150	123	349	96	243	1840	827	174	2.4	1.1
6	3.8	20	130	122	300	104	188	874	353	98	2.1	1.2
7	3.8	16	120	121	301	127	305	569	224	58	1.7	1.0
8	3.8	14	100	112	255	120	5090	908	168	39	1.9	.81
9	3.8	12	90	101	208	106	2770	690	133	29	2.7	.69
10	11	10	80	109	198	97	1910	417	108	23	1.9	.53
11	17	9.0	70	258	213	95	1060	309	93	18	12	.48
12	14	8.0	60	198	202	105	659	245	81	15	110	.48
13	14	7.0	50	141	182	115	483	204	73	14	40	.53
14	14	6.4	42	120	191	110	766	177	65	11	21	.53
15	12	6.2	1300	114	237	103	2330	1970	60	12	14	.44
16	9.3	6.0	4110	107	535	93	833	3540	53	9.1	8.0	.35
17	7.0	5.6	790	97	829	82	527	915	55	7.3	5.7	.40
18	6.5	5.4	392	75	478	82	376	495	112	25	4.3	.32
19	6.5	5.2	803	61	334	98	293	1100	122	238	3.4	.28
20	13	7.2	993	58	252	106	236	1390	114	120	2.6	.34
21	5.7	161	441	80	204	177	196	943	83	58	2.0	.81
22	5.7	191	265	4380	179	300	168	8410	62	37	1.5	.90
23	5.4	169	486	2630	168	168	154	2460	49	25	1.6	.83
24	5.0	304	1430	1390	154	134	368	887	40	19	1.1	.70
25	4.7	190	1110	780	146	118	331	495	33	18	.92	.62
26	4.7	139	2920	544	139	106	201	366	29	25	.71	.48
27	4.4	112	1500	390	124	102	156	272	25	23	.56	.48
28	4.1	836	1400	297	121	110	137	217	22	16	.40	.52
29	4.1	1220	768	243	---	108	348	257	36	11	.62	.57
30	4.2	688	416	342	---	97	2410	763	309	7.9	.80	.57
31	4.4	---	288	525	---	90	---	340	---	5.2	.88	---
TOTAL	213.9	4204.4	21414	14236	9753	3590	23384	55683	6958	1457.5	261.79	21.16
MEAN	6.90	140	691	459	348	116	779	1796	232	47.0	8.44	.71
MAX	17	1220	4110	4380	1270	300	5090	12200	2950	238	110	1.4
MIN	3.8	4.8	42	58	121	82	88	177	22	5.2	.40	.28
CFSM	.02	.36	1.79	1.19	.90	.30	2.01	4.64	.60	.12	.02	.002
IN.	.02	.40	2.06	1.37	.94	.35	2.25	5.35	.67	.14	.03	.00

CAL YR 1982 TOTAL 150438.60 MEAN 412 MAX 15400 MIN 3.8 CFSM 1.07 IN 14.46
WTR YR 1983 TOTAL 141176.75 MEAN 387 MAX 12200 MIN .28 CFSM 1.00 IN 13.57

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 (46 m) upstream from diversion dam for Georgetown water treatment plant, 0.7 mi (1.1 km) upstream from Town Run, 1.4 mi (2.3 km) southwest of Georgetown, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--218 mi² (565 km²).

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

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 (184.160 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 12, 1972 nonrecording gage at a site 1.0 mi (1.6 km) downstream at datum 35.24 ft (10.741 m) lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

REMARKS.--Records fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1970 to 1974.

AVERAGE DISCHARGE.--56 years, 258 ft³/s (7.307 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s (634 m³/s) Mar. 10, 1964; maximum gage height, 20.87 ft (6.361 m), 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,500 ft³/s (156 m³/s), and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 30	2400	6930	196	6.60	2.012	May 22	2230	*8100	229	*6.97	2.124
May 15	1900	6220	176	6.36	1.939						

No flow Oct. 8, 25, Nov. 14-16, Aug, 4-6, 19, 22, 25-31, Sept. 1-23, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	.20	96	82	204	49	46	3250	120	96	.89	.00
2	7.6	.90	153	69	869	46	46	2490	89	64	.25	.00
3	5.5	6.5	170	64	1150	42	46	1660	215	42	.06	.00
4	4.7	7.6	89	49	404	39	46	2690	2980	22	.00	.00
5	3.8	4.7	61	39	149	36	128	1040	422	25	.00	.00
6	2.4	3.8	53	39	116	39	112	354	161	86	.00	.00
7	.20	3.8	67	36	108	69	323	189	100	36	13	.00
8	.00	3.8	57	34	104	69	354	928	82	19	19	.00
9	5.5	3.8	31	31	93	53	354	529	64	12	6.0	.00
10	4.7	3.8	16	31	93	42	354	204	49	7.6	2.8	.00
11	4.7	4.7	14	31	96	36	354	133	39	8.8	44	.00
12	3.1	4.7	12	31	96	36	268	108	34	16	60	.00
13	7.6	.90	7.6	42	96	36	194	93	31	19	38	.00
14	4.7	.00	5.5	31	93	36	492	86	25	22	17	.00
15	4.7	.00	157	31	104	34	1030	3130	25	10	7.8	.00
16	5.5	.00	441	29	370	31	404	3170	128	12	3.4	.00
17	4.7	1.9	387	25	464	31	194	492	69	10	2.1	.00
18	4.7	1.9	175	8.8	268	29	133	215	536	14	1.5	.00
19	3.1	3.8	387	14	141	29	104	869	204	64	.00	.00
20	4.7	7.6	989	14	104	29	82	1390	194	57	.05	.00
21	5.5	49	238	14	86	29	59	450	161	31	.24	.00
22	5.5	82	120	1700	69	29	61	4540	82	5.6	.00	.00
23	1.4	82	100	1100	64	57	53	3490	61	6.5	.09	.00
24	1.4	67	100	720	61	76	57	450	39	5.4	.02	9.8
25	.00	53	514	500	61	64	61	175	22	5.4	.00	4.6
26	1.4	19	1790	316	61	53	61	128	22	11	.00	3.5
27	3.8	16	919	184	53	49	46	108	16	6.0	.00	1.7
28	1.4	25	909	133	49	49	42	86	12	4.0	.00	.07
29	3.1	25	499	100	---	49	39	89	76	3.2	.00	.00
30	1.9	61	170	404	---	49	3370	422	249	2.0	.00	.00
31	.20	---	112	551	---	46	---	210	---	2.4	.00	---
TOTAL	114.00	543.40	8839.1	6452.8	5626	1361	8923	33168	6307	724.9	216.20	19.67
MEAN	3.68	18.1	285	208	201	43.9	297	1070	210	23.4	6.97	.66
MAX	7.6	82	1790	1700	1150	76	3370	4540	2980	96	60	9.8
MIN	.00	.00	5.5	8.8	49	29	39	86	12	2.0	.00	.00

CAL YR 1982 TOTAL 83905.10 MEAN 230 MAX 11000 MIN .00
WTR YR 1983 TOTAL 72295.07 MEAN 198 MAX 4540 MIN .00

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 (1.3 km) downstream from Conner Branch, 0.9 mi (1.4 km) upstream from Massies Creek, 1.3 mi (2.1 km) northeast of Oldtown, and at mile 82.25 (132.3 km).

DRAINAGE AREA.--129 mi^2 (334 km^2).

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.56 ft (248.887 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for the winter period, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1952 to 1958.

AVERAGE DISCHARGE.--31 years, 117 ft^3/s (3.313 m^3/s), 12.32 in/yr (313 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s (419 m^3/s) Jan. 21, 1959, gage height, 12.20 ft (3.719 m), from rating curve extended above 4,400 ft^3/s (125 m^3/s) on basis of slope area measurements of peak flow; minimum, 5.4 ft^3/s (0.15 m^3/s) July 29, 1954, result of temporary storage at rock dam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft^3/s (22.7 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 28	0115	809	22.9	4.29	1.308	May 2	0930	2450	69.4	7.60	2.316
May 1	1330	* 2520	71.4	* 7.70	2.347	July 18	0345	2030	57.5	6.87	2.094

Minimum discharge, 12 ft^3/s (0.34 m^3/s) Sept. 25,26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	87	136	115	60	42	2020	110	315	45	21
2	18	21	72	120	183	58	47	2130	103	154	41	20
3	18	23	64	107	295	57	58	1890	104	104	42	20
4	18	23	58	96	190	55	57	1160	110	93	42	20
5	18	20	56	90	138	55	52	577	99	98	45	19
6	18	19	57	87	121	58	52	395	93	79	43	19
7	19	19	51	84	112	57	60	312	91	69	38	19
8	19	20	47	78	98	55	155	315	85	63	37	17
9	21	20	45	74	93	54	443	261	81	61	36	16
10	25	20	44	76	91	52	494	221	78	57	34	14
11	22	25	40	75	88	52	302	194	75	55	43	15
12	20	35	37	71	82	50	221	175	72	54	37	19
13	20	35	35	66	77	49	187	164	70	49	30	18
14	20	25	35	65	78	49	240	158	67	46	30	18
15	20	22	40	60	79	49	324	331	66	48	28	17
16	19	20	208	52	85	47	222	524	65	46	28	15
17	18	20	162	50	89	46	176	296	65	101	26	14
18	19	19	115	50	85	48	149	221	63	511	25	13
19	19	19	156	50	82	49	130	196	81	115	25	13
20	19	23	217	50	77	48	116	175	90	77	23	13
21	20	45	144	50	73	56	106	156	73	63	23	22
22	19	118	111	106	72	52	98	212	65	54	23	19
23	19	89	99	148	72	47	94	266	62	55	23	20
24	20	71	99	143	69	46	91	185	58	159	22	17
25	20	58	99	121	66	45	85	158	55	102	22	15
26	20	51	125	105	62	44	80	146	53	74	20	13
27	20	56	456	94	60	45	76	131	51	62	21	13
28	20	111	637	87	60	47	76	124	57	57	27	13
29	19	189	334	82	---	45	74	129	61	53	25	13
30	19	115	215	101	---	42	169	131	144	50	25	13
31	20	---	164	133	---	41	---	117	---	47	24	---
TOTAL	604	1352	4109	2707	2792	1558	4486	13470	2347	2971	953	498
MEAN	19.5	45.1	133	87.3	99.7	50.3	150	435	78.2	95.8	30.7	16.6
MAX	25	189	637	148	295	60	494	2130	144	511	45	22
MIN	18	19	35	50	60	41	42	117	51	46	20	13
CFSM	.15	.35	1.03	.68	.77	.39	1.16	3.37	.61	.74	.24	.13
IN.	.17	.39	1.18	.78	.81	.45	1.29	3.88	.68	.86	.27	.14

CAL YR 1982 TOTAL 53865 MEAN 148 MAX 3580 MIN 17 CFSM 1.15 IN 15.53
WTR YR 1983 TOTAL 37847 MEAN 104 MAX 2130 MIN 13 CFSM .81 IN 10.91

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 (0.8 km) northwest 200 ft of Wilberforce, 0.6 mi (1.0 km) downstream from unnamed right bank tributary and 1.7 mi (2.7 km) upstream from Clark Run.

DRAINAGE AREA.--63.2 mi² (164 km²).

PERIOD OF RECORD.--September 1952 to current year. Prior to October 1962, published as Massie Creek at Wilberforce.

REVISIONS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 865.15 ft (263.698 m) National Geodetic Vertical Datum of 1929, Aug. 4, 1972 to Sept. 30, 1979 at sight 150 ft (46 m) downstream at same datum.

REMARKS.--Records good except those for the winter period, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1952 to 1958.

AVERAGE DISCHARGE.--31 years, 62.8 ft³/s (1.778 m³/s), 13.49 in/yr (343 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,300 ft³/s (207 m³/s) Jan. 21, 1959, Mar. 4, 1963, gage height, 11.25 ft (3.429 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 3-7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 1	0130	1490	42.2	6.77	2.063	June 30	1800	1020	28.9	5.85	1.783
May 2	0800	1730	49.0	7.16	2.182	July 18	0400	*3580	101	*9.49	2.893

Minimum, 3.6 ft³/s (0.10 m³/s) Sept. 29,30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.4	44	94	82	24	17	1240	45	128	25	16
2	4.9	8.1	36	73	145	23	21	1460	40	56	23	14
3	4.7	8.8	31	63	186	23	25	1330	39	38	22	13
4	4.9	6.7	27	54	120	22	24	843	42	50	22	12
5	4.9	6.1	26	50	81	22	22	347	38	53	22	11
6	4.9	5.8	25	46	66	23	23	215	35	33	21	11
7	5.2	5.8	22	45	56	23	25	164	33	25	20	11
8	5.2	5.8	20	41	47	22	84	164	31	21	20	10
9	6.7	5.8	19	37	43	22	270	132	28	20	19	10
10	7.0	5.8	14	38	42	21	323	109	26	18	18	9.4
11	5.8	8.5	13	38	40	21	193	89	25	16	25	11
12	4.4	12	12	34	37	20	139	81	24	15	21	12
13	4.4	10	11	31	34	20	115	72	24	14	18	12
14	4.7	8.1	11	30	33	21	146	72	23	13	17	8.6
15	4.9	7.0	14	27	35	20	202	109	23	12	17	7.9
16	5.2	6.7	159	25	42	19	135	152	23	11	16	8.3
17	5.2	6.4	117	25	47	19	102	102	36	51	16	7.6
18	5.5	6.4	78	25	46	20	81	81	31	675	16	6.9
19	5.2	6.1	113	25	42	20	67	76	54	112	16	6.0
20	5.5	9.2	161	25	38	20	57	67	46	52	16	5.7
21	5.2	19	105	25	34	23	51	60	33	39	15	11
22	5.5	57	85	62	33	20	47	96	27	33	15	6.6
23	5.2	32	62	115	33	17	44	112	24	30	16	5.7
24	5.2	26	63	113	30	16	43	80	22	81	15	5.1
25	5.5	21	64	92	29	15	38	68	20	77	15	4.9
26	5.8	18	79	76	26	15	37	60	18	48	14	4.6
27	5.8	19	277	63	24	16	34	53	17	36	15	4.3
28	5.5	54	419	55	25	18	37	50	25	31	17	3.9
29	5.5	106	240	51	---	17	35	55	27	29	16	3.6
30	5.8	62	153	71	---	15	156	56	193	26	14	4.1
31	6.4	---	113	103	---	16	---	50	---	25	15	---
TOTAL	165.5	560.5	2613	1652	1496	613	2603	7645	1072	1868	557	257.2
MEAN	5.34	18.7	84.3	53.3	53.4	19.8	86.8	247	35.7	60.3	18.0	8.57
MAX	7.0	106	419	115	186	24	323	1460	193	675	25	16
MIN	4.4	5.8	11	25	24	15	17	50	17	11	14	3.6
CFSM	.08	.30	1.33	.84	.85	.31	1.37	3.91	.57	.95	.29	.14
IN.	.10	.33	1.54	.97	.88	.36	1.53	4.50	.63	1.10	.33	.15

CAL YR 1982 TOTAL 27835.5 MEAN 76.3 MAX 1970 MIN 4.2 CFSM 1.21 IN 16.38
WTR YR 1983 TOTAL 21102.2 MEAN 57.8 MAX 1460 MIN 3.6 CFSM .92 IN 12.42

03242050 LITTLE MIAMI RIVER NEAR SPRING VALLEY, OH

LOCATION.--Lat 39°35'00", long 84°01'49", Greene County, Hydrologic Unit 05090202, on right bank at downstream side of bridge on New Burlington Road, 0.3 mi (0.5 km) upstream from unnamed right bank tributary, 2.2 mi (3.5 km) southwest of Spring Valley, 2.8 mi (4.5 km) downstream from Glady Run, and at mile 61.95 (99.68 km).

DRAINAGE AREA.--366 mi^2 (948 km^2).

PERIOD OF RECORD.--September 1925 to December 1935 and October 1939 to December 1951 (published as "at Spring Valley"), July 1968 to September 1983 (discontinued as a continuous record station; converted to a stage only station).

REVISED RECORDS.--WSP 893: 1932(M). WSP 1053: 1929. WSP 2108: 1969.

GAGE.--Water-stage recorder. Datum of gage is 729.29 ft (222.288 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1939, nonrecording gage and Dec. 13, 1939 to Dec. 31, 1951, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 8.6 ft (2.62 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Water-quality data collected at this site 1968 to 1980.

AVERAGE DISHARGE.--37 years (1925-35), 1939-51, 1969-83), 392 ft^3/s (11.10 m^3/s), 14.54 in/yr (369 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft^3/s (521 m^3/s) Feb. 26, 1929, gage height, 16.8 ft (5.12 m) site and datum then in use; minimum, 23 ft^3/s (0.65 m^3/s) July 27, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Flood of Jan. 21, 1959 reached a stage of 18.1 ft (5.52 m) at present site and datum, discharge, 36,400 ft^3/s (1,030 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,370 ft^3/s (180 m^3/s) May 2, gage height 12.09 ft (3.685 m), above base of 3,600 ft^3/s (102 m^3/s); minimum discharge 74 ft^3/s (2.10 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	95	270	400	388	198	160	5500	318	833	162	113
2	93	96	232	350	592	195	198	5900	303	426	155	98
3	90	120	208	310	819	193	226	5640	299	307	149	90
4	87	103	192	280	590	190	212	4540	337	347	149	86
5	91	94	186	271	434	200	196	1830	290	514	160	83
6	91	91	200	262	382	210	194	1100	270	294	150	83
7	89	87	173	254	359	200	227	851	263	241	140	84
8	92	85	165	239	323	190	777	973	251	218	130	82
9	92	90	157	223	305	190	1490	748	239	205	130	80
10	135	90	143	227	299	190	1350	627	231	195	120	78
11	104	96	140	232	293	190	885	553	220	184	180	78
12	98	165	120	221	280	183	654	498	212	179	160	150
13	95	165	120	206	259	177	600	456	205	171	130	111
14	94	114	120	201	259	175	889	438	204	163	130	91
15	92	103	150	200	263	176	963	721	198	161	120	83
16	92	101	660	180	265	171	679	1150	197	156	120	91
17	89	98	560	160	281	167	541	730	246	191	110	87
18	88	97	450	150	274	171	466	558	306	1880	110	81
19	93	97	600	150	263	175	415	509	467	836	110	77
20	94	152	660	150	249	169	373	471	780	350	100	79
21	100	175	430	150	237	243	340	417	316	269	98	168
22	94	370	330	783	232	201	306	599	259	219	98	107
23	94	270	294	797	229	183	301	654	233	202	97	93
24	89	220	296	613	224	175	290	499	215	376	96	89
25	88	190	300	484	218	171	272	423	204	297	94	86
26	93	170	401	405	206	166	258	395	192	403	94	84
27	92	290	1350	354	197	164	247	359	198	232	92	84
28	92	450	1800	318	198	180	247	334	346	201	115	83
29	91	560	900	295	---	173	245	400	444	186	217	82
30	91	380	600	364	---	164	646	425	350	173	114	82
31	90	---	460	431	---	160	---	345	---	164	107	---
TOTAL	2908	5214	12667	9660	8918	5690	14647	38643	8593	10573	3937	2763
MEAN	93.8	174	409	312	319	184	488	1247	286	341	127	92.1
MAX	135	560	1800	797	819	243	1490	5900	780	1880	217	168
MIN	87	85	120	150	197	160	160	334	192	156	92	77
CFSM	.26	.48	1.12	.85	.87	.50	1.33	3.41	.78	.93	.35	.25
IN.	.30	.53	1.29	.98	.91	.58	1.49	3.93	.87	1.07	.40	.28

CAL YR 1982 TOTAL 152976 MEAN 419 MAX 8000 MIN 83 CFSM 1.15 IN 15.55
WTR YR 1983 TOTAL 124213 MEAN 340 MAX 5900 MIN 77 CFSM .93 IN 12.62

03242150 CAESAR CREEK NEAR XENIA, OH

LOCATION.--Lat 39°37'25", long 83°54'09", Greene County, Hydrologic Unit 05090202, on left bank at downstream side of bridge on Winchester Road, 0.2 mi (0.3 km) downstream from unnamed left bank tributary, 4.5 mi (7.2 km) south of Xenia, 7.4 mi (11.9 km) upstream from Anderson Fork, and at mile 22.1 (35.6 km).

DRAINAGE AREA.--71.4 mi^2 (185 km^2).

PERIOD OF RECORD.--August 1968 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 894.18 ft (272.546 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods and August 19 to September 30, which are fair. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee, 7.2 mi (11.6 km) upstream, drainage area 10.9 mi (28.2 km). Summer storage is about 1,100 acre-ft (1.36 hm^3) more than winter. Water-quality data collected at this site 1968 to 1977.

AVERAGE DISCHARGE.--15 years, 79.2 ft^3/s (2.243 m^3/s) 15.06 in/yr (383 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,170 ft^3/s (146 m^3/s) July 4, 1975, gage height, 13.47 ft (4.106 m); maximum gage-height 13.56 ft (4.133 m) June 28, 1980; minimum daily, 0.42 ft^3/s (0.012 m^3/s) July 20, 21, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 24, 1968, reached a stage of 15.9 ft (4.846 m) outside, from flood mark; discharge, 12,500 ft^3/s (354 m^3/s) result of contracted opening estimate.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 1	0130	*3880	110	*11.96	3.645	June 19	2230	1770	50.1	8.84	2.694
May 2	0830	3290	93.2	11.19	3.411	July 18	0400	3840	109	11.91	3.630
May 3	0730	2800	79.3	10.50	3.200						

Minimum daily discharge, 0.76 ft^3/s (0.022 m^3/s) Oct. 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	17	22	73	89	28	14	2270	56	90	12	2.7
2	1.6	104	19	63	234	27	20	2220	45	46	10	2.5
3	1.6	87	17	55	256	26	29	1760	44	32	8.7	2.3
4	1.6	71	15	46	131	25	26	710	51	91	6.7	2.1
5	1.7	55	14	42	91	25	22	317	40	110	6.7	2.0
6	1.7	42	15	40	80	26	22	213	35	41	6.7	1.9
7	1.7	34	13	38	71	26	29	179	33	29	5.7	2.1
8	1.8	28	11	33	59	24	183	189	29	22	4.9	2.1
9	1.4	23	9.6	30	55	23	476	101	25	19	4.5	2.1
10	1.3	19	9.1	30	54	22	365	81	22	16	3.7	1.8
11	1.1	16	9.1	30	52	21	193	68	19	13	18	1.7
12	.76	16	9.0	28	46	21	128	59	17	12	13	1.7
13	.76	14	8.0	24	42	17	105	54	16	10	5.7	1.8
14	.76	12	7.6	20	43	17	170	51	14	8.7	4.5	1.8
15	.76	9.7	24	17	46	17	211	149	13	8.2	4.1	1.8
16	.87	8.1	132	15	58	15	116	231	12	7.1	3.4	2.0
17	.94	6.8	69	15	62	15	86	133	12	9.8	3.0	2.1
18	1.1	5.8	50	15	57	15	70	136	32	1180	2.7	2.1
19	1.4	5.3	106	15	54	15	59	102	286	177	2.5	2.1
20	1.7	5.8	105	15	47	15	50	77	312	67	2.2	2.0
21	1.8	11	67	20	43	22	44	54	77	40	2.0	4.5
22	1.8	25	51	177	42	18	39	155	50	26	1.8	2.7
23	1.8	17	47	221	42	15	38	128	37	20	1.7	2.2
24	1.8	16	50	161	38	15	37	80	31	119	2.5	2.2
25	1.8	13	52	111	35	14	32	69	27	107	2.4	2.0
26	1.8	10	68	87	30	14	28	60	22	84	2.2	1.9
27	1.8	10	391	71	28	15	27	51	21	37	2.0	1.9
28	2.0	49	320	61	28	17	27	46	33	27	2.7	1.8
29	2.1	52	172	55	---	16	26	181	44	20	6.7	1.8
30	2.1	29	113	115	---	14	303	191	119	15	3.0	1.8
31	2.8	---	88	118	---	13	---	124	---	13	3.4	---
TOTAL	47.75	811.5	2083.4	1841	1913	593	2975	10239	1574	2496.8	159.1	63.5
MEAN	1.54	27.1	67.2	59.4	68.3	19.1	99.2	330	52.5	80.5	5.13	2.12
MAX	2.8	104	391	221	256	28	476	2270	312	1180	18	4.5
MIN	.76	5.3	7.6	15	28	13	14	46	12	7.1	1.7	1.7
CFSM	.02	.38	.94	.83	.96	.27	1.39	4.62	.74	1.13	.07	.03
IN.	.02	.42	1.09	.96	1.00	.31	1.55	5.33	.82	1.30	.08	.03

CAL YR 1982 TOTAL 23616.70 MEAN 64.7 MAX 2520 MIN .45 CFSM .91 IN 12.30
WTR YR 1983 TOTAL 24797.05 MEAN 67.9 MAX 2270 MIN .76 CFSM .95 IN 12.92

03242200 ANDERSON FORK NEAR NEW BURLINGTON, OH

LOCATION.--Lat 39°33'59", long 83°54'10", Greene County, Hydrologic Unit 05090202, on right bank at downstream side of bridge on Old Winchester Trail, 1.0 mi (1.6 km) downstream from Painters Run, 3.4 mi (5.5 km) east of New Burlington, 5.0 mi (8.0 km) upstream from mouth, and at mile 19.7 (31.7 km).

DRAINAGE AREA.--77.8 mi² (202 km²).

PERIOD OF RECORD.--July 1968 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 883.67 ft (269.343 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Water-quality data collected at this site 1968 to 1977.

AVERAGE DISCHARGE.--15 years, 84.2 ft³/s (2.385 m³/s), 14.70 in/yr (373 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,510 ft³/s (156 m³/s) Feb. 24, 1975, gage height, 12.76 ft (3.889 m); minimum, 0.08 ft³/s (0.002 m³/s) Sept. 24, 25, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 24, 1968 reached a stage of 15.7 ft (4.785 m), present datum, from floodmarks, discharge about 9,400 ft³/s (266 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximums (*).

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 9	1900	1110	31.4	7.82	2.384	May 16	0600	1000	28.3	7.54	2.298
May 1	0300	*2850	80.7	*11.17	3.407	July 18	0530	1930	54.7	9.58	2.920
May 2	0900	2640	74.8	10.82	3.298	July 19	1600	1200	34.0	8.05	2.454
May 3	0900	2760	78.2	11.02	3.359						

Minimum daily discharge, 0.36 ft³/s (0.01 m³/s) Oct. 11-19, 21, 22.

REVISIONS--The peak discharges and annual maximums (*) for water years 1978-1982 have ben revised as shown in the following table. They supersede figures published in the reports for 1978-1982.

Water year	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Water year	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
1978	Dec. 14,1977	0800	1850	52.4	9.43	2.874	1978	Mar. 14,1978	2400	*3270	92.6	*11.81	3.600
1979	Dec. 4,1978	----	1200	34.0	unknown		1979	Apr. 4,1979	1230	1020	28.9	7.60	2.316
1979	Dec. 8,1978	----	1800	51.0	unknown		1979	Apr. 13,1979	2330	2510	71.1	10.61	3.234
1979	Jan. 1,1979	0930	1750	49.6	9.23	2.813	1979	Aug. 11,1979	0330	1060	30.0	7.71	2.350
1979	Feb. 21,1979	2330	1720	48.7	9.17	2.795	1979	Aug. 21,1979	0030	1990	56.4	9.69	2.954
1979	Feb. 23,1979	1830	3460	98.0	12.10	3.688	1979	Aug. 23,1979	2030	2180	61.7	10.03	3.057
1979	Feb. 25,1979	1830	2210	62.6	10.09	3.075	1979	Sep. 14,1979	0800	*3660	104	*12.38	3.773
1980	Nov. 24,1979	0300	1250	35.4	8.17	2.490	1980	June 28,1980	2400	1470	41.6	8.65	2.637
1980	Jan. 11,1980	1830	1400	39.6	8.49	2.588	1980	July 10,1980	0300	*2100	59.5	*9.90	3.018
1980	June 2,1980	1930	1020	28.9	7.58	2.310							
1981	July 1,1981	0230	*1140	32.3	*7.91	2.411							
1982	Jan. 23,1982	0830	2010	56.9	9.72	2.963	1982	Mar. 20,1982	0430	1350	38.2	8.38	2.554
1982	Jan. 31,1982	2100	*3260	92.3	*11.80	3.597							

03242200 ANDERSON FORK NEAR NEW BURLINGTON, OH --continued.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.64	18	68	109	24	18	1730	55	99	30	8.9
2	.49	.71	17	55	284	24	24	1880	46	65	23	6.3
3	.56	1.1	17	44	315	24	35	2230	43	44	22	4.9
4	.64	1.1	16	35	158	23	31	1130	51	61	20	4.0
5	.56	1.0	15	32	100	23	27	440	47	110	19	3.2
6	.56	.97	15	32	82	22	26	269	40	53	19	2.9
7	.56	.67	14	31	67	23	33	180	37	36	17	3.2
8	.49	.64	12	26	51	23	347	180	33	35	15	3.2
9	.42	.64	11	24	47	22	763	139	28	31	14	2.9
10	.42	.64	11	24	46	21	614	106	26	28	11	2.5
11	.36	.64	11	24	45	21	332	85	25	24	47	1.9
12	.36	1.3	10	23	38	20	212	70	23	21	32	1.6
13	.36	1.4	10	20	33	19	169	61	22	18	17	1.9
14	.36	1.2	9.4	18	34	19	216	56	22	16	13	2.2
15	.36	.95	22	15	38	19	339	427	21	14	11	1.9
16	.36	.88	104	14	53	17	200	783	20	12	9.4	2.2
17	.36	1.1	64	14	62	16	144	271	27	11	8.3	2.5
18	.36	1.3	38	14	57	16	113	155	260	892	7.8	2.5
19	.36	1.3	72	14	53	16	90	124	173	349	7.8	2.2
20	.39	1.1	105	14	44	16	72	120	479	145	6.3	1.9
21	.36	7.0	56	15	39	22	61	92	131	82	5.8	4.0
22	.36	16	38	204	38	21	52	310	76	56	5.3	2.9
23	.38	11	33	399	38	17	48	319	55	46	4.4	2.2
24	.42	9.7	46	272	36	17	48	152	43	88	16	2.2
25	.42	6.5	49	173	33	17	43	112	36	74	8.3	1.6
26	.42	5.2	109	118	26	17	35	86	31	56	5.8	1.0
27	.42	5.0	473	86	24	18	30	68	28	42	5.3	1.0
28	.55	29	496	67	24	21	30	59	88	35	5.8	.82
29	.64	39	235	56	---	21	29	94	204	31	7.3	.61
30	.64	24	133	124	---	18	235	97	120	28	7.3	.61
31	.64	---	93	157	---	18	---	67	---	28	8.9	---
TOTAL	14.14	171.68	2352.4	2212	1974	615	4416	11892	2290	2630	429.8	79.74
MEAN	.46	5.72	75.9	71.4	70.5	19.8	147	384	76.3	84.8	13.9	2.66
MAX	.64	39	496	399	315	24	763	2230	479	892	47	8.9
MIN	.36	.64	9.4	14	24	16	18	56	20	11	4.4	.61
CFSM	.006	.07	.98	.92	.91	.25	1.89	4.94	.98	1.09	.18	.03
IN.	.01	.08	1.12	1.06	.94	.29	2.11	5.69	1.09	1.26	.21	.04

CAL YR 1982 TOTAL 26178.13 MEAN 71.7 MAX 3180 MIN .30 CFSM .92 IN 12.52
WTR YR 1983 TOTAL 29076.76 MEAN 79.7 MAX 2230 MIN .36 CFSM 1.02 IN 13.90

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 (152 m) downstream from Wooster Pike Bridge on U.S. Highway 50 in Milford, 1.2 mi (1.9 km) upstream from East Fork, 6.4 mi (10.3 km) downstream from North Branch Creek, and at mile 12.9 (20.8 km).

DRAINAGE AREA.--1,203 mi^2 (3,116 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), March 1925 to September 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305, published as "at Miamiville" 1915-20.

REVISED RECORDS.--WSP 728: 1931. WSP 743: 1932. WSP 873: 1925-36. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 494.35 ft (150.678 m) National Geodetic Vertical Datum, adjustment of 1929. June 22, 1915, to May 14, 1920, nonrecording gage at site 4 mi (6 km) upstream at different datum. Mar. 11, 1925, to Aug. 16, 1928, nonrecording gage at bridge 500 ft (152 m) upstream at datum 5.72 ft (1.743 m) higher. Aug. 17, 1928 to Sept. 30, 1977 water-stage recorder at same site at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records good. Some regulation since 1948 by Cowan Lake, capacity 12,000 acre-ft (14.8 hm³), 45 mi (72 km) upstream on Cowan Creek, tributary to Todd Fork, and Caesar Creek Lake capacity 242,200 acre-ft (298.6 hm^3) 41.3 mi (66.4 km) upstream on Caesar Creek.

AVERAGE DISCHARGE.--58 years, (1915-17, 1925-36, 1938-83), 1,243 ft^3/s (35.20 m^3/s), 14.03 in/yr (357 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,100 ft^3/s (2,380 m^3/s) Jan. 22, 1959, gage height, 27.30 ft (8.321 m) present datum, from rating curve extended above 60,000 ft^3/s (1,700 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 27 ft^3/s (0.76 m^3/s) Sept. 18, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 30.5 ft (9.30 m), present datum, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft^3/s (425 m^3/s) and maximums (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 1	1600	18,200	515	13.96	4.255
May 3	1000	*33,400	946	*17.97	5.477
May 15	2200	17,000	481	13.60	4.145

Minimum daily discharge, 123 ft^3/s (3.48 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	161	646	927	1250	411	380	12200	1120	1920	265	205
2	348	131	590	800	2670	377	395	20200	986	1560	253	195
3	347	149	527	718	3440	368	620	26900	1110	1140	241	168
4	347	162	424	638	2440	357	695	13000	1650	825	221	151
5	347	170	383	580	1830	358	553	6630	1030	1890	225	141
6	347	155	386	561	1700	400	622	3510	818	1280	330	136
7	348	151	387	539	1350	434	1010	2710	717	951	252	129
8	485	146	352	535	1210	470	5150	4080	655	536	215	124
9	362	137	340	528	941	499	6480	4150	610	422	197	124
10	364	134	325	532	898	473	6050	3850	522	383	190	123
11	364	187	315	545	908	405	3390	3570	466	356	373	157
12	315	284	286	531	855	385	2910	3420	437	332	355	200
13	293	336	269	498	771	358	2230	3270	424	316	285	173
14	288	349	251	472	749	330	3910	3300	407	296	220	183
15	282	288	524	429	857	314	4950	9390	391	279	197	157
16	281	273	2280	347	1010	301	3020	8520	384	271	183	147
17	276	269	1310	325	991	291	2020	4980	376	264	176	197
18	285	243	864	289	878	295	1570	4300	568	460	171	354
19	301	180	971	244	746	319	1280	3820	957	2480	169	299
20	310	226	1520	251	703	335	1100	4150	1680	1400	164	151
21	381	468	1070	320	661	1190	870	3450	1210	603	157	307
22	406	832	767	3490	583	951	811	7530	1230	787	153	235
23	420	786	1130	4660	560	604	750	4780	1150	1280	145	220
24	435	564	1180	2590	547	528	790	3110	639	775	144	168
25	450	449	1320	1580	523	464	782	1790	413	1030	142	155
26	460	371	2590	1160	486	400	675	1450	363	919	141	150
27	468	379	4770	912	457	388	612	1120	341	854	137	144
28	471	939	5390	773	441	403	555	1020	348	721	163	142
29	467	1240	2560	692	---	425	610	1250	3570	383	255	141
30	305	870	1520	1410	---	417	3080	1710	2210	299	325	137
31	175	---	1130	1580	---	399	---	1290	---	276	289	---
TOTAL	11070	11029	36377	29456	30455	13649	57900	174450	26782	25288	6733	5314
MEAN	357	368	1173	950	1088	440	1930	5627	893	816	217	177
MAX	485	1240	5390	4660	3440	1190	6480	26900	3570	2480	373	354
MIN	175	131	251	244	441	291	380	1020	341	264	137	123
CFSM	.30	.31	.98	.79	.90	.37	1.60	4.68	.74	.68	.18	.15
IN.	.34	.34	1.12	.91	.94	.42	1.79	5.39	.83	.78	.21	.16

CAL YR 1982 TOTAL 467194 MEAN 1280 MAX 25500 MIN 110 CFSM 1.06 IN 14.45
WTR YR 1983 TOTAL 428503 MEAN 1174 MAX 26900 MIN 123 CFSM .98 IN 13.25

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1975 to current year.
pH: May 1975 to current year.
WATER TEMPERATURES: May 1975 to current year.
DISSOLVED OXYGEN: May 1975 to current year.
SUSPENDED SEDIMENT DISCHARGE: January 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1975. Prior to May 1975, sampling site was 4.2 mi (6.76 km) upstream.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,200 micromhos Feb. 12, 1977, Dec. 23, 1981; minimum, 194 micromhos July 10, 1980.
pH: Maximum, 9.3 units June 10, 1977; minimum, 6.6 units Mar. 5, 1980.
WATER TEMPERATURES: Maximum, 33.0°C July 8, 18, 20, 1977; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 20.0 mg/L July 18, 19, 1978; minimum 3.3 mg/L May 20, 1982.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,730 mg/L July 10, 1980; minimum daily mean, 1.0 mg/L several days in 1979, 1980, 1982, 1983.
SEDIMENT LOADS: Maximum daily, 185,000 tons (168,000 tonnes) Sept. 14, 1979; minimum daily, 0.85 tons (0.85 tonnes) Dec. 15, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 938 micromhos Jan. 22; minimum, 226 micromhos May 3.
pH: Maximum, 9.0 units Sept. 8, 9; minimum, 7.5 units May 1, 2.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 21; minimum, 0.5°C Jan. 18-22.
DISSOLVED OXYGEN: Maximum, 17.0 mg/L Aug. 10; minimum, 4.8 mg/L Aug. 28.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,370 mg/L May 2; minimum daily mean, 1.0 mg/L several days during the year.
SEDIMENT LOADS: Maximum daily, 84,300 tons (76,500 tonnes) May 3; minimum daily, 0.85 tons (0.77 tonnes) Dec. 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 27...	1100	476	20	3	67	1	1	12	3	8	11
DEC 15...	1000	266	40	1	89	1	1	<1	3	13	10
MAR 01...	1300	411	--	--	--	--	--	--	--	--	--
APR 20...	1330	1100	<10	1	110	<1	<1	<1	<3	10	15
JUN 14...	1330	406	10	2	110	<1	<1	4	<3	9	9
SEP 14...	1100	181	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 27...	3	4	5	.1	10	1	<1	<1	370	6.0	4
DEC 15...	3	4	14	<.1	10	1	<1	<1	450	6.0	5
MAR 01...	--	--	--	--	--	--	--	--	--	--	--
APR 20...	3	<4	18	.1	<10	3	<1	<1	370	<6.0	4
JUN 14...	1	8	2	.2	<10	2	<1	<1	420	<6.0	4
SEP 14...	--	--	--	--	--	--	--	--	--	--	--

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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										
27...	1100	476	550	8.4	6.0	10.5	8.4	10.5	96	40
DEC										
15...	1000	266	770	8.4	6.0	3.5	3.9	14.3	110	3300
MAR										
01...	1300	411	655	8.8	12.0	7.5	2.0	15.0	128	1200
APR										
20...	1330	1100	640	8.3	4.5	9.5	6.3	12.6	112	370
JUN										
14...	1330	406	700	8.6	29.0	26.0	12	11.2	141	540
SEP										
14...	1100	181	820	8.3	21.5	23.0	29	8.0	95	1000

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
27...	110	54	22	19	15	.6	2.7	182	41	25
DEC										
15...	2100	77	30	41	22	1.0	3.5	249	62	47
MAR										
01...	480	75	28	28	17	.7	2.8	229	60	53
APR										
20...	150	72	27	18	12	.5	2.3	223	53	36
JUN										
14...	500	80	30	29	16	.7	2.7	250	55	52
SEP										
14...	130	82	30	54	26	1.3	3.8	260	56	90

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
27...	.2	1.2	298	2.3	.090	.12	.60	.260	.260	.240
DEC										
15...	.2	4.5	459	2.9	.190	.24	.70	.620	.600	.610
MAR										
01...	.3	.1	430	3.2	.090	.12	.70	.300	.270	.270
APR										
20...	.2	5.2	418	4.3	.110	.14	.40	.190	.170	.160
JUN										
14...	.4	.4	504	2.6	.010	.01	1.00	.310	.260	.250
SEP										
14...	.4	6.3	474	2.6	.080	.10	.70	.790	.590	.610

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
27...	1100	476	10.5	28	36
DEC					
15...	1000	266	3.5	2	1.4
MAR					
01...	1300	411	7.5	4	4.4
APR					
20...	1330	1100	9.5	18	53
JUN					
14...	1330	406	26.0	19	21
SEP					
14...	1100	181	23.0	74	36

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	642	602	617	602	576	590	612	532	560	618	584	597
2	632	588	606	626	586	605	648	612	626	648	614	632
3	610	564	583	670	606	635	660	634	642	674	640	657
4	590	566	580	756	670	724	696	656	665	686	658	670
5	606	576	589	800	752	775	702	668	680	678	656	668
6	610	572	591	834	780	810	728	680	697	710	672	689
7	606	570	587	862	826	840	742	716	726	700	684	692
8	588	570	579	858	818	833	752	728	737	716	692	701
9	600	542	572	840	810	825	756	734	742	712	686	700
10	570	526	548	828	802	817	770	726	740	698	668	684
11	598	574	583	808	754	783	740	702	717	694	662	674
12	608	578	590	796	690	758	724	702	712	690	670	677
13	660	598	619	786	656	732	736	706	717	690	664	674
14	684	624	653	760	692	709	758	718	737	692	670	682
15	652	608	623	712	696	704	774	492	715	692	668	678
16	636	582	602	728	702	715	552	464	502	706	668	680
17	626	590	609	716	612	662	572	482	543	744	694	713
18	638	608	622	632	564	596	584	530	551	758	734	745
19	670	614	628	608	558	583	626	564	602	796	758	775
20	648	598	617	624	568	598	592	544	563	826	782	805
21	630	594	606	614	538	573	610	566	589	842	784	810
22	618	588	601	674	548	613	632	602	613	938	402	625
23	606	564	582	736	660	693	620	466	541	400	360	377
24	600	560	574	694	510	572	574	532	547	434	388	408
25	584	548	560	560	514	530	572	474	546	512	438	481
26	568	540	555	624	548	587	506	376	438	558	512	536
27	562	532	546	674	626	650	464	338	413	604	562	579
28	564	538	549	696	442	582	402	338	370	632	604	617
29	568	536	549	590	562	576	464	406	443	664	636	646
30	568	542	553	626	548	599	540	468	505	666	556	622
31	592	562	575	---	---	---	586	534	559	572	488	510
MONTH	684	526	589	862	442	676	774	338	604	938	360	645

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	584	510	550	684	650	658	716	684	696	418	248	318
2	566	448	521	680	648	661	698	658	678	278	232	257
3	452	422	435	698	658	670	698	660	674	270	226	240
4	490	450	472	722	688	704	684	658	670	336	274	306
5	506	486	498	726	706	715	682	662	673	446	338	384
6	528	504	519	742	708	721	684	612	642	510	446	482
7	542	526	536	746	698	715	624	570	588	546	514	531
8	584	542	566	726	706	712	586	336	469	540	478	501
9	582	570	576	720	702	708	406	330	370	504	476	490
10	638	576	602	732	674	697	430	372	393	514	500	507
11	652	620	628	704	670	682	504	434	475	518	512	515
12	658	642	650	692	676	685	534	508	519	520	514	517
13	672	638	654	704	668	682	550	528	538	518	512	515
14	662	634	647	704	686	696	536	444	504	518	476	507
15	688	642	669	720	690	706	458	420	440	484	236	377
16	650	618	639	740	710	726	526	460	492	404	246	313
17	598	578	590	750	724	737	564	528	539	472	416	453
18	602	578	588	764	732	749	582	560	573	492	474	484
19	612	588	600	768	744	753	608	590	597	498	492	495
20	622	604	610	772	740	759	624	602	615	496	484	488
21	624	608	615	744	600	644	644	620	632	492	484	488
22	626	608	616	638	558	586	664	626	651	490	270	380
23	628	608	617	622	578	596	670	652	661	448	286	384
24	650	624	638	634	612	621	664	642	651	502	450	482
25	656	636	644	640	608	622	656	636	647	546	500	513
26	662	636	648	662	622	637	646	624	636	580	550	564
27	656	632	643	670	636	649	638	610	628	606	572	582
28	664	630	649	704	660	684	666	634	652	632	602	620
29	---	---	---	710	684	698	692	652	665	620	584	607
30	---	---	---	712	684	695	692	320	507	590	484	519
31	---	---	---	716	688	701	---	---	---	596	548	573
MONTH	688	422	594	772	558	686	716	320	583	632	226	464

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	578	544	557	464	414	437	716	590	664	690	560	612
2	594	576	586	540	442	487	744	702	723	772	616	723
3	596	428	561	476	424	444	750	708	730	774	714	751
4	562	370	487	508	472	491	748	698	722	710	632	666
5	594	532	560	528	388	440	724	648	702	648	626	635
6	630	592	606	528	426	489	712	668	695	700	646	661
7	634	604	614	500	434	462	670	540	596	758	698	725
8	646	624	630	550	490	522	694	610	660	792	764	778
9	660	638	648	584	550	562	732	672	705	794	764	779
10	672	654	661	694	582	638	736	670	701	774	750	762
11	682	648	664	722	706	714	696	458	617	776	556	742
12	696	674	684	748	714	729	684	506	594	764	474	597
13	726	690	701	756	730	746	752	688	727	816	600	728
14	738	696	715	762	726	742	756	640	696	832	814	823
15	734	690	712	754	684	726	718	636	684	854	834	844
16	738	692	718	716	682	699	732	684	710	850	814	834
17	736	700	719	716	658	696	710	670	688	832	790	812
18	750	710	725	710	654	684	694	652	675	858	702	785
19	738	588	662	712	252	451	718	668	695	732	664	709
20	636	482	539	404	260	350	748	726	736	660	596	634
21	540	402	458	456	406	435	734	702	722	614	462	527
22	510	424	465	582	456	507	708	680	697	598	484	542
23	534	510	521	620	490	541	722	698	708	650	588	614
24	558	528	539	504	490	494	736	722	727	762	656	732
25	600	548	566	558	496	531	738	726	733	758	736	747
26	642	586	604	580	514	561	734	702	720	802	744	768
27	686	646	669	556	484	506	738	722	728	854	782	820
28	744	708	724	566	438	498	740	678	712	834	764	804
29	762	282	500	486	438	463	592	556	615	778	712	741
30	422	308	371	538	486	517	720	594	683	740	702	724
31	---	---	---	570	532	557	738	568	709	---	---	---
MONTH	762	282	606	762	252	552	756	458	693	858	462	721
YEAR	938	226	618									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	8.1	8.2	8.3	8.1	8.2	8.1	8.0	8.0	8.2	8.1	8.2
2	8.3	8.1	8.2	8.3	8.1	8.2	8.1	8.1	8.1	8.2	8.2	8.2
3	8.3	8.1	8.2	8.1	7.9	8.0	8.1	8.0	8.1	8.3	8.2	8.3
4	8.3	8.1	8.2	8.3	8.0	8.2	8.1	8.0	8.1	8.3	8.2	8.3
5	8.3	8.1	8.2	8.4	8.2	8.3	8.1	8.0	8.1	8.3	8.3	8.3
6	8.3	8.1	8.2	8.4	8.3	8.4	8.2	8.0	8.1	8.3	8.3	8.3
7	8.3	8.1	8.2	8.5	8.3	8.4	8.3	8.1	8.2	8.3	8.3	8.3
8	8.2	8.0	8.1	8.5	8.4	8.5	8.4	8.2	8.3	8.3	8.3	8.3
9	8.1	8.0	8.0	8.5	8.4	8.5	8.5	8.3	8.4	8.3	8.3	8.3
10	8.1	7.9	8.0	8.6	8.4	8.5	8.5	8.4	8.5	8.3	8.2	8.3
11	8.2	8.0	8.1	8.5	8.4	8.5	8.5	8.4	8.5	8.3	8.2	8.3
12	8.3	8.1	8.2	8.5	8.3	8.4	8.6	8.4	8.5	8.3	8.3	8.3
13	8.4	8.1	8.2	8.5	8.2	8.4	8.6	8.5	8.6	8.4	8.3	8.4
14	8.4	8.2	8.3	8.5	8.4	8.5	8.6	8.5	8.6	8.4	8.3	8.4
15	8.4	8.2	8.3	8.6	8.4	8.5	8.5	8.2	8.5	8.4	8.3	8.4
16	8.4	8.2	8.3	8.7	8.4	8.5	8.3	8.0	8.1	8.4	8.3	8.4
17	8.5	8.3	8.4	8.6	8.4	8.5	8.1	8.0	8.1	8.5	8.3	8.4
18	8.5	8.3	8.4	8.5	8.2	8.4	8.2	8.1	8.1	8.5	8.4	8.4
19	8.5	8.3	8.4	8.5	8.2	8.3	8.2	8.2	8.2	8.5	8.4	8.5
20	8.4	8.3	8.4	8.4	8.2	8.3	8.2	8.1	8.2	8.5	8.4	8.4
21	8.4	8.2	8.3	8.2	8.1	8.1	8.2	8.1	8.2	8.4	8.4	8.4
22	8.5	8.3	8.4	8.1	8.0	8.1	8.3	8.2	8.2	8.4	8.0	8.2
23	8.5	8.3	8.4	8.1	8.0	8.0	8.2	8.1	8.2	7.9	7.8	7.8
24	8.5	8.4	8.4	8.0	7.9	7.9	8.1	8.1	8.1	8.0	7.8	7.9
25	8.5	8.4	8.4	8.1	7.9	8.0	8.1	8.0	8.1	8.0	8.0	8.0
26	8.5	8.4	8.4	8.2	8.1	8.2	8.0	7.9	7.9	8.2	8.0	8.1
27	8.5	8.4	8.4	8.4	8.2	8.3	7.9	7.7	7.8	8.2	8.1	8.2
28	8.5	8.4	8.4	8.3	8.1	8.2	7.8	7.7	7.7	8.3	8.2	8.2
29	8.4	8.4	8.4	8.2	8.1	8.1	7.8	7.8	7.8	8.3	8.2	8.3
30	8.4	8.3	8.3	8.1	8.0	8.1	8.1	7.7	7.9	8.3	8.1	8.2
31	8.4	8.1	8.3	---	---	---	8.2	8.1	8.1	8.1	8.1	8.1
MONTH	8.5	7.9	8.3	8.7	7.9	8.3	8.6	7.7	8.2	8.5	7.8	8.3

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.2	8.1	8.1	8.8	8.7	8.8	8.7	8.5	8.6	7.8	7.5	7.6
2	8.2	8.0	8.1	8.8	8.7	8.8	8.7	8.5	8.6	7.6	7.5	7.5
3	8.0	8.0	8.0	8.8	8.6	8.7	8.5	8.3	8.4	7.8	7.6	7.7
4	8.1	8.0	8.1	8.7	8.6	8.6	8.5	8.2	8.4	7.8	7.8	7.8
5	8.1	8.1	8.1	8.6	8.5	8.5	8.4	8.3	8.3	7.8	7.7	7.7
6	8.1	8.1	8.1	8.5	8.3	8.4	8.4	8.2	8.3	7.8	7.7	7.8
7	8.3	8.1	8.2	8.4	8.3	8.3	8.3	8.0	8.1	7.9	7.8	7.8
8	8.3	8.2	8.3	8.3	8.1	8.2	8.1	7.7	7.9	7.9	7.9	7.9
9	8.4	8.2	8.3	8.3	8.1	8.2	7.9	7.7	7.8	8.0	7.9	7.9
10	8.4	8.2	8.3	8.3	8.2	8.2	7.9	7.8	7.8	8.0	8.0	8.0
11	8.4	8.2	8.3	8.4	8.2	8.3	8.0	7.9	8.0	8.0	8.0	8.0
12	8.4	8.3	8.4	8.6	8.3	8.4	8.1	8.0	8.0	8.0	8.0	8.0
13	8.5	8.3	8.4	8.6	8.4	8.5	8.1	8.0	8.1	8.0	7.9	7.9
14	8.5	8.4	8.5	8.7	8.4	8.6	8.0	7.9	8.0	8.0	7.9	7.9
15	8.5	8.4	8.5	8.7	8.5	8.6	8.0	7.9	8.0	7.9	7.6	7.8
16	8.5	8.3	8.5	8.7	8.5	8.6	8.1	8.0	8.0	7.9	7.7	7.8
17	8.5	8.3	8.4	8.6	8.5	8.6	8.1	8.1	8.1	7.9	7.8	7.9
18	8.5	8.2	8.4	8.6	8.4	8.5	8.2	8.1	8.2	8.0	7.9	8.0
19	8.6	8.3	8.5	8.5	8.4	8.4	8.3	8.2	8.2	8.0	8.0	8.0
20	8.7	8.5	8.6	8.5	8.3	8.4	8.3	8.2	8.3	8.0	7.9	7.9
21	8.7	8.5	8.6	8.3	8.1	8.2	8.3	8.2	8.3	7.9	7.9	7.9
22	8.8	8.5	8.7	8.2	8.1	8.2	8.4	8.2	8.3	7.9	7.7	7.8
23	8.7	8.6	8.7	8.5	8.2	8.4	8.3	8.2	8.2	7.9	7.7	7.8
24	8.7	8.6	8.7	8.6	8.4	8.5	8.4	8.1	8.3	7.9	7.9	7.9
25	8.7	8.6	8.7	8.7	8.5	8.6	8.5	8.2	8.3	7.9	7.9	7.9
26	8.8	8.7	8.7	8.8	8.6	8.7	8.6	8.3	8.4	8.0	7.9	8.0
27	8.8	8.8	8.8	8.8	8.6	8.7	8.6	8.4	8.5	8.0	8.0	8.0
28	8.8	8.7	8.8	8.7	8.5	8.6	8.5	8.4	8.5	8.0	8.0	8.0
29	---	---	---	8.7	8.4	8.5	8.4	8.2	8.3	8.1	8.0	8.0
30	---	---	---	8.7	8.5	8.6	8.3	7.7	8.0	8.0	7.9	7.9
31	---	---	---	8.7	8.5	8.6	---	---	---	8.0	8.0	8.0
MONTH	8.8	8.0	8.4	8.8	8.1	8.5	8.7	7.7	8.2	8.1	7.5	7.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	7.9	8.0	7.9	7.8	7.8	8.5	8.2	8.3	8.4	8.1	8.2
2	8.0	8.0	8.0	7.9	7.8	7.8	8.6	8.3	8.5	8.7	8.2	8.4
3	8.0	7.9	8.0	7.8	7.8	7.8	8.7	8.4	8.5	8.7	8.4	8.6
4	8.0	7.8	8.0	7.9	7.8	7.9	8.7	8.4	8.6	8.6	8.3	8.5
5	8.1	7.9	8.0	7.8	7.6	7.7	8.7	8.5	8.6	8.3	8.2	8.3
6	8.1	8.0	8.0	7.9	7.7	7.9	8.7	8.4	8.5	8.6	8.2	8.4
7	8.2	8.0	8.1	8.0	7.9	7.9	8.6	8.2	8.4	8.8	8.5	8.7
8	8.4	8.1	8.2	8.0	7.9	8.0	8.8	8.4	8.6	9.0	8.7	8.8
9	8.4	8.2	8.3	8.1	8.0	8.0	8.8	8.4	8.6	9.0	8.8	8.9
10	8.4	8.3	8.3	8.2	8.0	8.1	8.7	8.4	8.6	8.9	8.7	8.8
11	8.5	8.3	8.4	8.2	8.1	8.1	8.5	7.9	8.3	8.9	8.6	8.7
12	8.5	8.3	8.4	8.3	8.1	8.2	8.5	8.0	8.2	8.6	8.0	8.2
13	8.5	8.2	8.4	8.4	8.1	8.2	8.6	8.3	8.5	8.3	8.1	8.2
14	8.6	8.3	8.4	8.6	8.2	8.4	8.9	8.6	8.7	8.5	8.3	8.4
15	8.5	8.3	8.4	8.6	8.4	8.5	8.8	8.5	8.7	8.6	8.4	8.5
16	8.5	8.3	8.4	8.6	8.4	8.5	8.7	8.6	8.6	8.7	8.6	8.6
17	8.5	8.3	8.4	8.6	8.3	8.5	8.7	8.5	8.6	8.7	8.6	8.7
18	8.4	8.2	8.3	8.6	8.3	8.5	8.8	8.6	8.7	8.6	8.3	8.5
19	8.2	7.8	7.9	8.4	7.6	7.8	8.7	8.5	8.6	8.4	8.2	8.3
20	7.8	7.6	7.7	7.8	7.6	7.7	8.7	8.5	8.6	8.2	8.1	8.1
21	7.8	7.6	7.7	7.9	7.8	7.8	8.7	8.3	8.5	8.1	7.9	8.0
22	7.9	7.7	7.8	7.9	7.8	7.8	8.7	8.5	8.6	8.2	7.9	8.0
23	8.0	7.9	7.9	8.0	7.9	8.0	8.6	8.3	8.5	8.3	8.1	8.2
24	8.1	7.9	8.0	8.1	7.9	8.0	8.7	8.2	8.5	8.4	8.2	8.3
25	8.1	7.9	8.0	8.2	8.0	8.1	8.6	8.4	8.5	8.5	8.4	8.4
26	8.4	8.0	8.2	8.1	8.1	8.1	8.6	8.3	8.4	8.4	8.3	8.4
27	8.6	8.1	8.4	8.1	8.0	8.1	8.4	8.1	8.2	8.4	8.3	8.3
28	8.5	8.3	8.4	8.1	7.9	8.0	8.2	8.0	8.1	8.5	8.3	8.4
29	8.4	7.5	7.9	8.1	7.9	8.0	8.4	8.0	8.2	8.5	8.3	8.4
30	7.8	7.6	7.7	8.3	7.9	8.1	8.7	8.3	8.5	8.5	8.3	8.4
31	---	---	---	8.4	8.0	8.2	8.7	8.4	8.6	---	---	---
MONTH	8.6	7.5	8.1	8.6	7.6	8.1	8.9	7.9	8.5	9.0	7.9	8.4
YEAR	9.0	7.5	8.3									

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	15.0	16.0	26.5	24.5	25.5	28.5	26.5	27.5	26.0	24.0	25.0
2	17.5	15.5	16.5	27.5	24.5	26.0	29.0	25.5	27.0	26.5	24.0	25.5
3	17.0	16.5	16.5	27.5	25.5	26.5	29.0	26.0	27.5	27.0	24.5	26.0
4	19.0	17.0	18.0	27.0	25.5	26.0	28.0	26.0	27.0	27.0	25.0	26.0
5	21.0	17.5	19.5	25.5	24.0	25.0	28.0	26.0	27.0	27.5	25.5	26.5
6	20.5	19.5	20.0	24.5	23.0	23.5	28.5	26.0	27.0	27.5	25.5	26.5
7	21.5	18.5	20.0	24.5	21.5	23.0	28.5	25.5	27.0	27.5	26.0	26.5
8	22.0	19.0	20.5	25.0	22.0	23.5	29.0	26.0	27.5	26.5	24.0	25.5
9	23.0	20.0	21.5	26.5	23.0	24.5	29.0	26.5	28.0	26.5	23.5	25.0
10	23.5	20.5	22.0	27.5	24.5	26.0	29.0	26.0	27.5	27.0	24.0	25.5
11	24.5	21.5	23.0	28.0	24.5	26.5	27.5	25.0	26.5	28.0	25.0	26.0
12	25.5	22.5	24.0	29.5	25.5	27.5	26.5	24.0	25.0	26.5	25.0	25.5
13	26.5	23.5	25.0	30.5	26.5	28.5	26.0	23.5	24.5	25.5	24.5	25.0
14	27.5	24.0	25.5	30.5	27.0	29.0	26.0	23.0	24.5	24.5	22.5	23.5
15	25.5	24.0	24.5	30.5	27.5	29.0	26.5	23.5	25.5	22.5	20.5	22.0
16	26.0	23.5	24.5	30.5	28.0	29.5	27.5	24.5	26.0	22.5	21.0	21.5
17	25.5	23.5	24.5	30.5	28.0	29.0	26.5	25.5	26.0	23.0	20.5	22.0
18	25.0	23.5	24.0	30.5	27.5	29.0	28.0	25.5	26.5	23.5	20.5	22.0
19	24.0	22.5	23.5	29.0	25.5	26.5	29.5	26.5	28.0	24.5	21.5	23.0
20	23.5	22.5	23.0	26.0	25.5	25.5	31.0	28.0	29.5	23.5	22.5	23.0
21	24.5	21.5	23.0	28.5	24.5	26.5	31.5	28.5	30.0	22.5	19.5	21.0
22	25.5	23.0	24.0	29.5	27.0	28.0	30.5	28.5	29.5	19.0	17.5	18.0
23	25.0	22.5	23.5	28.5	23.5	25.0	30.0	28.5	29.0	18.0	16.0	17.0
24	26.5	23.0	24.5	26.5	23.5	25.0	30.0	27.5	28.5	17.5	15.5	16.5
25	27.5	24.0	26.0	27.0	25.5	26.0	29.5	27.0	28.5	17.5	15.5	16.5
26	28.5	25.0	27.0	27.0	24.5	26.0	30.0	27.0	28.5	18.5	17.0	18.0
27	28.5	26.0	27.0	27.0	24.5	25.5	29.5	27.0	28.0	19.5	17.0	18.5
28	27.0	26.0	26.5	28.0	25.0	26.5	27.5	26.0	26.5	20.0	17.5	19.0
29	26.5	22.5	24.0	28.5	26.0	27.0	27.5	25.0	26.5	20.0	18.0	19.0
30	25.5	22.5	24.0	29.5	26.0	28.0	28.5	26.0	27.0	20.0	17.5	19.0
31	---	---	---	29.0	27.0	28.0	27.5	25.5	26.5	---	---	---
MONTH	28.5	15.0	22.5	30.5	21.5	26.5	31.5	23.0	27.0	28.0	15.5	22.5
YEAR	31.5	.5	14.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.2	8.4	9.0	10.5	6.8	8.6	12.3	11.7	12.0	12.4	11.9	12.2
2	10.1	8.1	8.9	9.5	7.3	8.3	12.1	10.9	11.5	12.1	11.8	11.9
3	9.8	8.0	8.7	7.5	6.1	6.9	11.0	10.0	10.6	13.4	11.5	12.5
4	9.3	7.7	8.4	10.4	6.7	8.4	10.1	9.4	9.8	13.4	12.9	13.2
5	9.8	7.4	8.2	10.3	8.5	9.4	10.2	9.1	9.6	13.2	12.8	13.0
6	9.3	7.1	7.8	12.3	9.3	10.7	10.9	9.2	10.1	13.0	12.6	12.8
7	8.3	7.1	7.4	12.7	10.1	11.2	12.7	10.6	11.6	13.0	12.4	12.6
8	8.3	6.9	7.4	14.2	10.0	12.0	13.8	11.5	12.6	12.4	12.0	12.2
9	7.9	7.3	7.7	15.0	11.0	12.9	14.9	12.3	13.6	12.0	11.4	11.7
10	8.7	7.2	8.0	15.6	12.3	13.6	15.0	13.5	14.1	13.0	11.2	12.1
11	8.3	7.0	7.2	13.4	11.3	12.3	15.2	13.5	14.4	12.5	12.0	12.2
12	8.1	6.8	7.4	11.1	9.0	10.1	15.5	14.1	15.3	13.0	11.9	12.4
13	8.3	6.6	7.3	12.0	8.9	10.5	15.3	14.2	15.2	13.6	12.4	13.0
14	9.9	6.4	8.0	13.2	10.9	11.9	16.5	14.4	15.3	13.4	12.8	13.1
15	10.4	8.3	9.1	15.5	11.4	13.2	14.9	13.0	14.2	13.1	12.6	12.8
16	10.1	8.3	9.1	15.6	12.4	13.7	13.9	13.0	13.5	13.1	12.4	12.7
17	10.9	8.6	9.5	14.7	11.9	13.3	13.7	13.2	13.4	14.5	12.4	13.5
18	11.7	8.9	10.1	14.2	12.1	12.9	14.0	13.4	13.7	14.7	13.9	14.3
19	11.1	9.3	10.0	13.6	10.5	11.8	14.1	13.5	13.7	15.4	14.0	14.7
20	9.8	8.6	9.1	11.2	9.2	10.4	13.9	13.4	13.6	15.4	14.3	14.9
21	10.6	8.5	9.3	9.1	7.5	8.3	14.4	13.8	14.1	14.8	14.1	14.5
22	11.4	9.2	10.1	10.0	7.3	8.5	15.1	14.2	14.6	---	---	---
23	11.2	9.4	10.2	9.0	8.2	8.7	14.5	13.2	13.8	---	---	---
24	11.0	9.4	10.0	9.2	7.8	8.5	13.3	12.7	13.1	---	---	---
25	12.0	9.3	10.4	10.6	9.0	9.9	12.7	11.1	12.0	---	---	---
26	11.7	9.8	10.6	13.3	10.0	11.9	11.1	10.7	10.9	13.4	12.7	13.0
27	12.3	9.7	10.7	14.6	12.6	13.5	12.0	10.8	11.3	13.5	12.4	12.9
28	12.1	10.0	10.9	13.3	12.7	13.0	---	---	---	13.5	12.9	13.2
29	10.6	9.6	10.0	12.6	12.0	12.2	---	---	---	13.2	12.5	13.0
30	10.5	9.1	9.6	12.6	11.9	12.2	12.3	11.8	11.9	---	---	---
31	10.4	8.1	9.0	---	---	---	12.4	12.3	12.3	---	---	---
MONTH	12.3	6.4	9.0	15.6	6.1	11.0	16.5	9.1	12.8	15.4	11.2	13.0

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	15.6	13.0	14.1	13.7	11.1	12.3	8.8	8.2	8.5
2	---	---	---	15.0	12.6	13.6	12.4	10.3	11.0	8.7	7.8	8.4
3	---	---	---	14.1	12.0	12.8	11.0	9.8	10.3	8.2	7.4	8.0
4	---	---	---	13.0	11.0	11.9	13.5	10.0	11.5	---	---	---
5	---	---	---	12.0	10.0	10.8	12.4	10.5	11.2	8.3	8.0	8.2
6	---	---	---	11.1	9.1	9.9	12.0	9.9	10.6	8.1	7.8	8.0
7	13.5	12.9	13.2	10.9	8.6	9.6	10.2	9.0	9.4	7.8	7.4	7.6
8	13.4	12.7	13.0	9.8	8.5	9.1	10.2	8.9	9.5	8.0	7.2	7.7
9	13.9	12.2	13.1	9.9	8.8	9.3	10.5	10.3	10.4	9.3	8.0	8.7
10	14.0	12.5	13.2	12.1	9.1	10.5	10.5	10.4	10.4	9.2	8.9	9.1
11	13.6	12.6	13.1	11.8	10.8	11.2	10.7	10.4	10.6	9.0	8.5	8.8
12	13.9	12.7	13.2	13.7	10.7	12.0	11.1	10.7	10.9	9.0	8.4	8.7
13	13.7	12.7	13.2	14.0	11.1	12.4	10.7	9.9	10.4	8.6	8.2	8.4
14	15.0	12.2	13.7	14.3	10.7	12.4	10.0	8.8	9.7	8.2	7.4	8.0
15	14.2	12.8	13.5	14.6	10.9	12.5	10.5	9.8	10.2	---	---	---
16	14.6	12.1	13.2	14.2	10.7	12.3	11.0	10.5	10.8	---	---	---
17	13.4	12.1	12.8	12.3	10.4	11.3	11.1	10.6	10.8	---	---	---
18	13.7	11.7	12.5	11.9	9.6	10.7	11.5	10.7	11.1	9.8	8.9	9.4
19	14.1	11.6	12.7	11.2	9.3	10.2	12.2	10.9	11.5	8.9	8.0	8.4
20	13.1	11.0	12.0	12.1	9.6	10.7	12.5	11.0	11.7	9.5	7.2	8.5
21	14.7	11.0	12.9	10.9	9.9	10.5	12.6	10.8	11.6	9.2	9.0	9.1
22	15.4	12.2	12.9	12.5	10.8	11.8	12.5	10.4	11.3	9.0	6.4	7.9
23	14.3	12.2	12.9	14.5	12.1	13.2	11.7	9.7	10.6	8.5	6.4	7.6
24	14.8	11.7	13.0	15.2	12.7	13.7	12.6	9.1	10.7	8.0	7.4	7.7
25	15.1	12.1	13.4	15.0	12.8	14.2	13.7	9.7	11.5	7.7	7.3	7.6
26	16.2	13.2	14.4	16.1	12.8	14.2	14.6	9.8	11.9	8.5	7.3	7.9
27	15.9	13.6	14.6	15.0	12.3	13.4	14.9	9.7	12.0	8.2	7.6	7.9
28	16.2	13.3	14.4	12.3	11.0	11.7	13.5	9.2	11.1	7.9	7.3	7.6
29	---	---	---	14.8	10.8	12.5	11.2	8.6	9.7	8.0	7.3	7.6
30	---	---	---	15.6	12.0	13.6	8.9	8.2	8.5	8.5	7.5	7.9
31	---	---	---	15.1	12.1	13.4	---	---	---	9.2	8.8	9.0
MONTH	16.2	11.0	13.2	16.1	8.5	11.9	14.9	8.2	10.8	9.8	6.4	8.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.6	9.0	9.3	7.7	7.3	7.5	10.9	7.1	8.8	8.3	5.8	7.2
2	9.8	9.0	9.4	7.6	7.2	7.4	12.7	7.4	9.8	12.2	6.3	8.9
3	9.4	8.5	9.0	7.5	7.3	7.4	14.1	7.5	10.6	12.3	6.7	9.5
4	9.2	8.5	8.9	7.7	6.9	7.4	13.7	7.4	10.2	10.2	6.6	8.4
5	9.5	8.4	8.9	7.4	6.9	7.3	13.2	7.4	10.1	9.1	6.1	7.5
6	9.1	8.1	8.6	7.9	7.4	7.7	12.6	7.3	9.6	11.1	6.1	8.3
7	10.1	7.9	8.9	8.3	7.9	8.1	11.1	6.7	8.8	13.5	6.5	9.9
8	11.5	7.9	9.6	8.5	7.9	8.2	14.3	6.9	10.3	15.1	7.1	11.1
9	13.0	8.0	10.4	8.8	7.7	8.2	16.1	7.2	11.5	15.4	7.5	11.6
10	12.2	8.4	10.1	8.9	7.5	8.1	17.0	7.2	12.0	15.2	7.6	11.4
11	11.5	7.9	9.6	9.3	7.4	8.2	9.9	6.0	7.7	15.3	7.0	9.9
12	9.9	6.8	8.2	8.2	6.4	7.5	9.7	5.9	7.5	7.4	5.4	6.2
13	12.7	5.6	8.8	9.1	6.0	7.1	11.3	6.8	8.9	7.9	5.5	6.7
14	11.3	7.1	8.9	13.0	7.6	9.9	15.1	7.6	11.3	9.6	6.3	7.9
15	9.9	6.7	8.2	13.8	7.3	10.3	16.1	7.6	11.8	11.5	7.2	9.2
16	12.2	6.0	9.1	13.6	7.2	10.3	13.3	7.4	10.4	11.9	7.7	9.6
17	12.3	7.8	10.0	13.8	6.9	9.7	11.4	6.5	9.0	12.6	7.8	10.2
18	11.3	7.5	9.1	13.3	6.5	9.5	13.1	6.6	9.6	10.2	7.5	8.8
19	8.3	7.1	7.6	8.9	6.6	6.9	13.1	6.7	9.7	9.7	7.2	8.3
20	7.5	6.5	7.0	7.2	6.6	6.9	13.0	6.3	9.6	8.7	6.8	7.7
21	7.8	7.1	7.4	7.6	6.9	7.2	14.6	6.4	10.5	7.9	6.9	7.4
22	8.0	7.5	7.7	7.1	6.5	6.8	12.9	6.3	9.5	9.2	7.3	8.2
23	8.6	7.8	8.2	8.2	6.9	7.7	11.4	5.5	8.2	10.1	8.3	9.1
24	9.0	7.7	8.3	8.1	7.5	7.7	11.4	5.5	8.4	11.0	8.7	9.8
25	9.4	7.3	8.2	8.2	7.1	7.6	11.3	5.7	8.4	11.1	8.9	9.9
26	11.4	7.2	8.9	8.6	7.4	7.9	10.6	5.6	7.9	11.0	8.5	9.5
27	13.4	7.2	10.1	8.5	7.5	7.9	8.9	5.0	6.7	11.2	8.3	9.6
28	12.0	7.4	9.2	8.2	7.4	7.7	8.4	4.8	6.3	11.8	8.3	9.8
29	8.9	6.1	7.3	8.6	7.1	7.7	9.7	5.5	7.6	11.7	8.2	9.8
30	7.5	6.5	7.0	9.8	7.0	8.2	10.6	6.2	8.4	12.1	8.4	10.0
31	---	---	---	10.0	6.9	8.4	11.2	6.4	8.7	---	---	---
MONTH	13.4	5.6	8.7	13.8	6.0	8.0	17.0	4.8	9.3	15.4	5.4	9.1
YEAR	17.0	4.8	10.3									

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	590	561	592	554	655	695	275	555	440	675	606
2	610	604	628	630	530	660	677	260	586	482	726	747
3	580	633	640	658	434	667	675	237	592	443	728	755
4	580	728	660	659	473	703	670	302	511	491	723	661
5	587	773	678	667	499	714	672	390	560	434	708	634
6	590	816	694	686	520	718	638	484	607	490	696	654
7	586	838	724	690	536	713	586	530	612	456	598	724
8	578	832	737	699	567	710	473	498	628	521	673	778
9	572	824	739	700	575	708	371	492	646	560	707	779
10	548	816	737	684	600	690	388	506	662	635	696	761
11	582	790	720	673	627	682	481	515	664	714	657	765
12	588	758	709	676	650	684	520	516	682	729	588	556
13	612	729	715	673	657	682	536	516	699	747	730	726
14	650	700	733	681	646	696	512	512	713	740	694	822
15	620	704	735	678	671	707	444	411	710	729	688	844
16	601	714	499	675	725	725	491	306	720	701	714	838
17	610	661	552	711	591	736	536	457	718	700	687	815
18	622	590	553	744	587	750	573	487	724	679	670	795
19	625	585	603	773	600	751	596	496	653	365	698	715
20	614	599	556	805	610	758	614	487	525	368	736	636
21	604	573	589	814	616	629	630	489	449	436	728	493
22	599	615	612	584	614	579	654	372	461	489	697	544
23	581	689	544	376	616	599	661	393	520	532	704	612
24	572	556	540	406	640	618	651	488	537	494	726	746
25	555	528	561	486	643	624	648	510	565	532	734	747
26	553	588	435	537	648	635	636	562	598	570	721	766
27	543	649	414	579	644	648	629	582	670	504	726	825
28	549	597	369	614	652	683	652	621	726	492	710	808
29	547	576	446	643	---	698	662	610	420	460	594	734
30	554	604	499	644	---	694	454	520	365	517	690	727
31	576	---	560	502	---	701	---	572	---	558	714	---
MEAN	587	675	605	643	597	684	581	464	603	549	695	721

WTR YR 1983 MEAN 617 MAX 844 MIN 237

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	8.2	8.0	8.2	8.1	8.8	8.6	7.6	8.0	7.8	8.3	8.2
2	8.2	8.2	8.1	8.2	8.1	8.8	8.6	7.6	8.0	7.8	8.4	8.4
3	8.2	8.0	8.1	8.3	8.0	8.7	8.4	7.7	8.0	7.8	8.5	8.6
4	8.2	8.2	8.1	8.3	8.1	8.6	8.4	7.8	8.0	7.9	8.5	8.5
5	8.2	8.3	8.1	8.3	8.1	8.5	8.3	7.7	8.0	7.7	8.6	8.3
6	8.2	8.4	8.1	8.3	8.1	8.4	8.3	7.8	8.0	7.9	8.5	8.5
7	8.1	8.4	8.2	8.3	8.2	8.3	8.1	7.8	8.1	7.9	8.4	8.7
8	8.1	8.5	8.3	8.3	8.3	8.2	7.9	7.9	8.2	8.0	8.6	8.9
9	8.0	8.5	8.4	8.3	8.3	8.2	7.8	7.9	8.4	8.0	8.6	8.9
10	8.0	8.5	8.5	8.3	8.3	8.2	7.8	8.0	8.3	8.1	8.6	8.8
11	8.1	8.5	8.5	8.3	8.3	8.3	8.0	8.0	8.4	8.1	8.4	8.7
12	8.2	8.4	8.5	8.3	8.4	8.5	8.0	8.0	8.4	8.2	8.3	8.2
13	8.2	8.4	8.6	8.4	8.4	8.5	8.1	7.9	8.4	8.2	8.4	8.2
14	8.3	8.5	8.6	8.4	8.5	8.6	8.0	7.9	8.4	8.4	8.7	8.3
15	8.3	8.5	8.5	8.4	8.5	8.7	8.0	7.8	8.4	8.5	8.7	8.5
16	8.4	8.6	8.1	8.4	8.5	8.6	8.0	7.8	8.4	8.4	8.7	8.6
17	8.4	8.5	8.1	8.4	8.4	8.6	8.1	7.9	8.4	8.5	8.6	8.7
18	8.4	8.4	8.1	8.4	8.4	8.5	8.2	8.0	8.3	8.5	8.7	8.5
19	8.4	8.4	8.2	8.5	8.5	8.4	8.2	8.0	7.9	7.7	8.6	8.3
20	8.4	8.3	8.2	8.4	8.6	8.4	8.3	7.9	7.8	7.7	8.6	8.1
21	8.4	8.1	8.2	8.4	8.7	8.2	8.3	7.9	7.7	7.8	8.6	8.0
22	8.4	8.1	8.2	8.2	8.7	8.2	8.3	7.8	7.8	7.8	8.6	8.0
23	8.4	8.0	8.2	7.8	8.7	8.4	8.2	7.8	7.9	8.0	8.5	8.2
24	8.4	7.9	8.1	8.0	8.7	8.5	8.2	7.9	8.0	8.0	8.5	8.3
25	8.4	8.0	8.1	8.0	8.7	8.6	8.3	7.9	8.0	8.1	8.5	8.4
26	8.4	8.2	7.9	8.1	8.7	8.7	8.4	8.0	8.1	8.1	8.4	8.4
27	8.4	8.3	7.9	8.2	8.8	8.7	8.5	8.0	8.4	8.1	8.2	8.3
28	8.4	8.2	7.7	8.2	8.8	8.6	8.5	8.0	8.4	8.0	8.1	8.4
29	8.4	8.1	7.8	8.3	---	8.6	8.4	8.0	7.7	8.0	8.2	8.4
30	8.3	8.1	7.8	8.2	---	8.6	7.9	7.9	7.7	8.1	8.5	8.4
31	8.3	---	8.1	8.1	---	8.6	---	8.0	---	8.3	8.6	---
MEAN	8.3	8.3	8.2	8.3	8.4	8.5	8.2	7.9	8.1	8.1	8.5	8.4

WTR YR 1983 MEAN 8.3 MAX 8.9 MIN 7.6

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.5	15.5	8.5	4.0	3.0	6.5	10.0	15.0	16.0	25.0	27.5	25.5
2	20.0	17.0	10.5	4.0	3.5	7.5	10.5	15.5	16.5	25.5	27.0	25.5
3	20.5	16.5	12.5	3.0	4.0	8.5	10.0	15.5	17.0	26.5	27.5	26.0
4	20.5	13.5	13.5	2.5	3.0	10.5	9.5	14.5	18.0	26.0	27.0	26.0
5	21.0	10.5	13.5	2.5	2.5	12.5	10.5	14.5	19.0	25.0	27.5	26.5
6	21.0	9.0	12.0	3.0	3.0	14.0	11.5	15.0	20.0	23.5	27.0	26.5
7	21.5	8.5	10.0	4.5	2.5	15.0	13.0	16.0	20.0	23.0	26.5	26.5
8	21.5	9.0	8.5	4.5	3.0	14.0	11.0	13.5	20.0	23.0	27.5	25.5
9	21.5	9.5	7.0	4.5	3.5	12.0	9.0	12.5	21.0	24.5	28.0	25.5
10	21.0	11.0	5.0	5.0	3.5	9.5	9.5	12.5	22.0	25.5	27.5	26.0
11	19.5	11.5	5.0	5.0	3.5	7.5	8.5	12.5	23.0	26.0	26.5	26.0
12	18.0	12.0	3.0	4.5	3.5	7.5	8.5	13.5	24.0	27.0	25.0	25.5
13	17.5	9.0	2.0	4.0	3.0	8.0	10.5	14.0	25.0	28.5	24.5	25.0
14	16.5	7.0	2.0	3.5	3.5	10.0	11.5	14.5	25.5	29.0	24.5	23.5
15	15.5	6.0	3.5	3.5	4.0	10.5	10.5	15.0	24.5	29.0	25.5	22.0
16	14.5	5.5	5.0	2.5	4.5	11.0	9.0	14.5	24.5	29.5	26.5	21.5
17	13.5	6.5	4.5	2.0	5.0	11.0	9.5	14.5	24.5	29.5	26.0	22.0
18	13.0	8.0	4.0	.5	6.0	11.0	9.0	14.0	24.0	29.0	27.0	22.0
19	13.0	9.0	4.5	.5	6.0	10.5	8.5	14.0	23.5	26.0	28.5	23.0
20	13.5	10.5	4.5	.5	7.5	9.5	8.5	14.5	23.0	25.5	30.0	23.0
21	12.5	12.5	4.0	.5	7.5	8.0	9.0	15.0	23.0	26.0	30.0	21.0
22	11.5	12.5	3.5	1.0	8.0	5.5	10.5	16.0	24.0	27.5	29.5	18.0
23	10.5	12.5	4.5	2.0	9.0	5.0	12.5	17.5	23.5	24.5	29.0	17.0
24	10.0	11.0	6.5	2.0	7.5	5.5	13.0	17.0	24.0	24.5	28.5	16.5
25	10.5	8.0	9.0	2.5	6.5	6.5	12.5	16.5	25.5	26.0	28.5	16.5
26	10.5	7.0	11.0	2.5	5.5	7.0	13.5	16.5	26.5	26.0	28.5	18.0
27	11.0	6.5	10.0	3.0	5.0	9.0	15.0	16.5	27.5	25.5	28.0	18.5
28	11.0	6.5	11.5	2.5	5.5	8.5	17.0	16.0	26.5	26.0	26.5	19.0
29	11.5	7.5	10.5	2.5	---	7.5	17.5	15.5	23.0	27.0	26.5	19.0
30	11.5	7.5	9.0	2.5	---	8.0	16.0	16.5	23.5	27.5	27.5	19.0
31	13.0	---	5.0	3.0	---	9.0	---	15.0	---	28.5	26.5	---
MEAN	15.5	10.0	7.0	3.0	4.5	9.0	11.0	15.0	22.5	26.5	27.5	22.5

WTR YR 1983 MEAN 14.5 MAX 30.0 MIN .5

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	8.3	11.9	12.2	---	13.8	12.0	8.5	9.4	7.6	8.6	7.2
2	8.7	8.3	11.6	11.9	---	13.3	10.9	8.6	9.3	7.5	9.7	9.1
3	8.6	7.0	10.7	13.0	---	12.6	10.3	8.0	9.0	7.4	10.5	9.4
4	8.3	8.7	9.8	13.2	---	11.7	11.4	---	8.9	7.4	9.9	8.2
5	7.9	9.6	9.5	13.0	---	10.6	11.1	8.2	8.8	7.4	10.2	7.3
6	7.6	10.8	10.4	12.7	---	9.7	10.4	8.0	8.6	7.8	9.4	8.2
7	7.3	11.0	11.7	12.6	13.3	9.3	9.3	7.7	8.9	8.1	8.5	10.0
8	7.3	12.3	12.7	12.2	13.0	8.9	9.5	7.8	9.4	8.2	10.3	11.2
9	7.6	13.0	13.9	11.6	13.1	9.4	10.5	9.0	10.6	8.1	11.5	11.5
10	7.7	13.3	14.1	12.5	13.2	10.9	10.4	9.1	9.8	8.1	11.9	10.9
11	7.4	12.4	14.5	12.2	13.2	11.2	10.6	8.8	9.2	8.1	7.6	8.9
12	7.3	10.1	15.6	12.5	13.3	12.1	10.9	8.7	7.9	7.6	7.6	6.2
13	7.0	10.8	15.3	13.3	13.2	12.2	10.4	8.5	8.4	6.8	8.9	6.9
14	8.5	11.9	15.2	13.1	14.1	12.5	9.8	8.1	8.7	9.5	11.5	8.2
15	8.9	13.4	14.4	12.8	13.5	12.4	10.2	---	7.8	10.1	11.9	9.4
16	9.0	13.6	13.5	12.7	13.3	12.1	10.9	---	9.6	10.0	10.2	9.3
17	9.4	13.5	13.5	14.1	12.8	11.4	10.8	---	9.8	9.3	8.9	10.3
18	10.2	12.7	13.8	14.4	12.4	10.6	11.1	9.6	8.9	9.4	9.7	8.6
19	9.9	11.8	13.6	14.8	12.5	10.3	11.5	8.4	7.6	6.6	9.4	8.1
20	9.1	10.5	13.7	14.9	12.0	10.7	11.6	9.1	6.9	7.0	9.7	7.5
21	9.0	8.5	14.2	14.5	12.7	10.6	11.4	9.1	7.3	7.1	10.4	7.4
22	9.9	8.9	14.6	---	12.8	12.1	11.1	8.5	7.8	6.8	9.1	8.5
23	10.0	8.7	13.9	---	12.9	13.2	10.5	7.8	8.2	7.8	7.6	9.3
24	9.8	8.5	13.1	---	12.8	13.6	10.3	7.6	8.2	7.7	8.3	9.8
25	10.5	10.1	12.2	---	13.6	14.0	11.2	7.6	8.1	7.7	8.2	9.7
26	10.3	12.8	10.9	13.0	14.4	14.0	11.6	8.0	8.8	7.8	7.6	9.3
27	10.6	13.5	11.2	12.9	14.4	13.2	11.6	7.9	10.1	7.9	6.4	9.3
28	10.5	13.1	---	13.1	14.0	11.7	10.8	7.6	8.9	7.7	6.5	9.6
29	9.9	12.2	---	13.0	---	12.8	9.5	7.6	7.2	7.6	7.8	9.7
30	9.4	12.1	11.9	---	---	13.6	8.5	7.9	6.9	8.1	8.6	9.8
31	8.8	---	12.3	---	---	13.2	---	9.0	---	8.4	8.7	---
MEAN	8.9	11.1	12.9	13.1	13.2	11.9	10.7	8.3	8.6	8.0	9.2	9.0

WTR YR 1983 MEAN 10.3 MAX 15.6 MIN 6.2

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	342	50	46	161	20	8.7	646	55	96
2	348	57	54	131	18	6.4	590	48	76
3	347	47	44	149	22	8.9	527	46	65
4	347	52	49	162	18	7.9	424	180	206
5	347	50	47	170	16	7.3	383	56	58
6	347	46	43	155	4	1.7	386	25	26
7	348	45	42	151	7	2.9	387	16	17
8	485	56	73	146	6	2.4	352	16	15
9	362	52	51	137	8	3.0	340	9	8.3
10	364	46	45	134	7	2.5	325	1	.88
11	364	48	47	187	11	5.6	315	8	6.8
12	315	45	38	284	30	23	286	4	3.1
13	293	43	34	336	36	33	269	5	3.6
14	288	40	31	349	10	9.4	251	6	4.1
15	282	36	27	288	4	3.1	524	73	221
16	281	32	24	273	6	4.4	2280	373	2300
17	276	27	20	269	4	2.9	1310	169	598
18	285	29	22	243	12	7.9	864	60	140
19	301	36	29	180	10	4.9	971	72	189
20	310	35	29	226	10	6.1	1520	85	349
21	381	36	37	468	32	40	1070	53	153
22	406	26	29	832	110	247	767	39	81
23	420	20	23	786	56	119	1130	61	186
24	435	19	22	564	50	76	1180	68	217
25	450	25	30	449	52	63	1320	184	1170
26	460	27	34	371	16	16	2590	303	2330
27	468	26	33	379	20	20	4770	843	15000
28	471	22	28	939	154	470	5390	705	11100
29	467	20	25	1240	135	452	2560	320	2210
30	305	16	13	870	50	117	1520	220	903
31	175	15	7.1	---	---	---	1130	180	549
TOTAL	11070	---	1076.1	11029	---	1772.0	36377	---	38281.78
		JANUARY			FEBRUARY			MARCH	
1	927	140	350	1250	39	132	411	4	4.4
2	800	100	216	2670	147	1350	377	3	3.1
3	718	25	48	3440	148	1370	368	4	4.0
4	638	10	17	2440	70	461	357	6	5.8
5	580	10	16	1830	67	331	358	12	12
6	561	8	12	1700	32	147	400	12	13
7	539	12	17	1350	18	66	434	12	14
8	535	12	17	1210	16	52	470	11	14
9	528	39	56	941	10	25	499	12	16
10	532	9	13	898	31	75	473	8	10
11	545	14	21	908	9	22	405	3	3.3
12	531	19	27	855	7	16	385	1	1.0
13	498	36	48	771	2	4.2	358	1	.97
14	472	31	40	749	4	8.1	330	5	4.5
15	429	60	69	857	9	21	314	1	.85
16	347	26	24	1010	9	25	301	4	3.3
17	325	56	49	991	14	37	291	10	7.9
18	289	14	11	878	12	28	295	9	7.2
19	244	18	12	746	9	18	319	8	6.9
20	251	20	14	703	7	13	335	8	7.2
21	320	20	17	661	14	25	1190	96	317
22	3490	200	1880	583	6	9.4	951	30	77
23	4660	132	1660	560	12	18	604	14	23
24	2590	272	1900	547	7	10	528	8	11
25	1580	104	444	523	6	8.5	464	9	11
26	1160	40	125	486	7	9.2	400	1	1.1
27	912	20	49	457	2	2.5	388	3	3.1
28	773	14	29	441	1	1.2	403	6	6.5
29	692	8	15	---	---	---	425	2	2.3
30	1410	139	654	---	---	---	417	1	1.1
31	1580	60	256	---	---	---	399	3	3.2
TOTAL	29456	---	8106	30455	---	4285.1	13649	---	595.72

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	380	4	4.1	12200	1230	47900	1120	51	154
2	395	4	4.3	20200	1370	77500	986	42	112
3	620	10	17	26900	1140	83400	1110	88	366
4	695	12	23	13000	495	17400	1650	165	795
5	553	8	12	6630	250	4480	1030	26	72
6	622	11	18	3510	172	1630	818	46	102
7	1010	42	115	2710	107	783	717	34	66
8	5160	609	12000	4080	160	1760	655	30	53
9	6480	343	6120	4150	152	1700	610	30	49
10	6060	393	6430	3850	83	863	522	26	37
11	3390	150	1370	3570	62	598	466	22	28
12	2910	83	652	3420	62	573	437	24	28
13	2230	50	301	3270	56	494	424	21	24
14	3910	223	2620	3300	52	463	407	27	30
15	4950	221	2950	9390	944	34700	391	24	25
16	3020	111	905	8520	689	19000	384	24	25
17	2020	42	229	4980	259	3480	376	24	24
18	1570	32	136	4300	67	778	568	58	108
19	1280	21	73	3820	69	712	957	76	183
20	1100	14	42	4150	58	650	1680	162	760
21	870	13	31	3450	77	717	1210	81	263
22	811	14	31	7530	705	19000	1230	116	385
23	760	14	29	4780	375	4840	1150	43	134
24	790	16	34	3110	98	823	639	60	104
25	782	12	25	1790	52	251	413	37	41
26	675	11	20	1450	40	157	363	36	35
27	612	10	17	1120	34	103	341	40	37
28	555	9	13	1020	31	85	348	45	42
29	610	12	20	1250	117	519	3570	794	9870
30	3080	723	8260	1710	212	989	2210	199	1190
31	---	---	---	1290	78	272	---	---	---
TOTAL	57900	---	42501.4	174450	---	326620	26782	---	15142
		JULY			AUGUST			SEPTEMBER	
1	1920	272	1490	265	65	47	205	87	48
2	1560	307	1290	253	50	34	195	97	51
3	1140	173	532	241	51	33	168	88	40
4	825	149	324	221	48	29	151	77	31
5	1890	875	4620	225	46	28	141	81	31
6	1280	323	1120	330	76	68	136	84	31
7	951	286	734	252	56	38	129	86	30
8	536	145	210	215	55	32	124	76	25
9	422	106	121	197	60	32	124	61	20
10	383	88	91	190	93	48	123	83	28
11	356	121	116	373	167	168	157	79	33
12	332	72	65	355	118	113	200	117	63
13	316	53	45	285	92	71	173	80	37
14	296	45	36	220	72	43	183	107	53
15	279	54	41	197	75	40	157	79	33
16	271	41	30	183	100	49	147	75	30
17	264	45	32	176	72	34	197	103	55
18	460	103	245	171	85	39	354	87	83
19	2480	444	2950	169	54	25	299	78	63
20	1400	359	1360	164	54	24	151	61	25
21	603	92	150	157	61	26	307	87	72
22	787	126	268	153	62	26	236	101	64
23	1280	143	494	145	77	30	220	74	44
24	775	104	218	144	71	28	168	51	23
25	1030	91	253	142	72	28	155	47	20
26	919	83	206	141	66	25	150	49	20
27	854	96	221	137	67	25	144	50	19
28	721	78	152	163	65	29	142	46	18
29	383	74	77	255	95	65	141	40	15
30	299	55	44	325	79	69	137	43	16
31	276	57	42	289	75	59	---	---	---
TOTAL	25288	---	17577	6733	---	1405	5314	---	1121
YEAR	428503		458483.10						

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
MAY							
03...	1400	30200	1220	99500	34	47	56

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
MAY							
03...	68	77	84	87	90	97	100

03246200 EAST FORK LITTLE MIAMI RIVER NEAR MARATHON, OH

LOCATION.--Lat 39°06'52", long 84°01'29", Clermont County, Hydrologic Unit 05090202, on right bank at downstream side of bridge on Blue Sky Park Road, 500 ft (152 m) upstream from Fivemile Creek, 1.0 mi (1.6 km) downstream from Sixmile Creek, 2.3 mi (3.7 km) southwest of Marathon, and at mile 44.2 (77.1 km).

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--August 1968 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 842.32 ft (256.739 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Water-quality data collected at this site 1969 to 1977. Sediment data collected 1970 to 1974.

AVERAGE DISCHARGE.--15 years, 244 ft³/s (6.91 m³/s), 16.99 in/yr (432 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft³/s (362 m³/s) July 10, 1980; gage height, 19.54 ft (5.956 m); minimum discharge, 0.46 ft³/s (0.013 m³/s) Oct. 13, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Dec. 26	0600	3270	92.6	11.48	3.499	May 22	1700	4580	130	12.98	3.956
May 3	1000	*7240	205	*15.49	4.721						

Minimum daily 0.46 ft³/s (0.013 m³/s) Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	2.0	142	140	257	38	39	1780	106	400	7.5	6.6
2	.92	2.1	174	119	743	38	58	2400	77	153	7.1	16
3	.84	18	165	107	702	36	252	6490	437	76	7.0	12
4	.78	34	111	96	352	33	207	2550	1580	70	6.6	7.7
5	.74	24	87	85	179	31	124	536	302	394	6.3	5.1
6	.68	18	103	82	151	36	183	317	155	128	9.8	4.1
7	.62	15	100	81	139	55	344	214	105	51	10	3.9
8	.56	12	75	78	127	50	1110	537	78	30	6.2	3.2
9	.52	11	56	71	95	39	1600	393	60	23	5.7	2.8
10	.50	8.8	49	64	103	33	1410	217	47	19	6.2	2.7
11	.48	7.6	46	56	109	30	422	156	37	17	12	5.7
12	.47	7.0	44	70	99	30	296	124	31	15	11	16
13	.46	30	40	55	86	30	270	105	27	13	8.5	12
14	.47	25	35	45	86	29	670	101	24	12	12	11
15	.47	20	276	42	145	27	1150	1820	22	11	8.6	6.2
16	.48	18	1310	41	282	25	347	1260	24	9.9	7.1	4.8
17	.50	17	390	36	349	22	223	353	33	9.2	6.0	3.9
18	.76	17	181	29	207	22	150	204	30	12	5.1	3.1
19	1.3	16	497	28	140	25	124	350	105	238	5.0	2.6
20	1.5	5.8	651	25	107	29	100	500	53	133	4.4	2.2
21	1.6	12	252	25	85	188	82	255	47	58	4.1	2.1
22	1.6	94	132	1480	72	188	70	2730	26	25	4.0	2.3
23	1.6	103	922	1680	66	95	64	1610	19	17	3.8	7.4
24	1.6	43	889	706	63	62	58	318	16	18	3.5	8.9
25	2.0	31	825	411	56	46	72	186	14	22	6.6	5.4
26	2.3	22	2130	287	49	39	60	137	12	28	6.4	3.5
27	2.1	15	1240	200	42	37	46	108	12	15	5.6	2.8
28	2.1	155	1130	147	39	50	40	89	337	12	4.9	2.4
29	1.8	607	399	119	---	65	59	156	1440	10	4.5	2.0
30	1.7	254	234	545	---	56	1570	351	500	9.0	4.3	1.7
31	1.7	---	170	488	---	44	---	177	---	8.1	5.3	---
TOTAL	34.11	1644.3	12855	7438	4930	1528	11240	26524	5756	2036.2	205.1	170.0
MEAN	1.10	54.8	415	240	176	49.3	375	856	192	65.7	6.62	5.67
MAX	2.3	607	2130	1680	743	188	1600	6490	1580	400	12	16
MIN	.46	2.0	35	25	39	22	39	89	12	8.1	3.5	1.7
CFSM	.006	.28	2.13	1.23	.90	.25	1.92	4.39	.99	.34	.03	.03
IN.	.01	.31	2.45	1.42	.94	.29	2.14	5.06	1.10	.39	.04	.03

CAL YR 1982 TOTAL 83470.61 MEAN 229 MAX 6840 MIN .46 CFSM 1.17 IN 15.92
WTR YR 1983 TOTAL 74360.71 MEAN 204 MAX 6490 MIN .46 CFSM 1.05 IN 14.19

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 (70 m) upstream from unnamed right bank tributary, 1,400 ft (427 m) upstream from Lucy Run, 1.3 mi (2.1 km) south of Batavia, and at mile 15.7 (25.3 km).

DRAINAGE AREA.--352 mi² (912 km²), includes that of unnamed tributary.

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

GAGE.--Water-stage recorder. Datum of gage is 571.68 ft (174.248 m) National Geodetic Vertical Datum of 1929. Prior to July 17, 1968, nonrecording gage 1,100 ft (335 m) downstream at same datum.

REMARKS.--Records good. 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 ft³/s (12.23 m³/s), 7 years (water years 1977-83) 444 ft³/s (12.57 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,700 ft³/s (813 m³/s) Apr. 2, 1970, gage height, 20.31 ft (6.190 m); minimum daily, 0.14 ft³/s (0.004 m³/s) Sept. 23, 27, 1967. Maximum discharge since start of construction of East Fork Dam 31,000 ft³/s (878 m³/s) Aug. 30, 1974, gage height, 20.80 ft (6.400 m) in gage well, 21.8 ft (6.645 m) from floodmarks, result of failure of cofferdam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1964 reached a stage of 21.46 ft (6.541 m) at site 1,100 ft (335 m) downstream from information by local resident, discharge, about 32,000 ft³/s (906 m³/s), from flood study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.970 ft³/s (141 m³/s) May 17, gage height, 12.13 ft (3.697 m); minimum daily, 9.2 ft³/s (0.26 m³/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	18	438	1770	415	35	56	223	331	1380	21	17
2	9.2	20	438	1500	564	34	31	169	315	481	20	17
3	9.2	20	433	1120	1040	34	34	409	163	208	20	17
4	10	18	433	597	1290	34	31	332	284	151	20	19
5	11	18	433	414	1100	34	30	492	498	130	20	20
6	12	18	428	414	649	36	38	483	706	283	21	18
7	14	18	293	361	336	35	42	481	1360	272	20	18
8	18	18	57	187	164	66	163	673	1190	84	24	17
9	16	57	81	82	114	187	261	1830	548	58	18	17
10	16	197	81	81	135	248	347	3170	452	31	21	17
11	15	193	81	81	162	87	1350	3370	131	30	40	18
12	15	197	81	81	219	86	2470	3620	50	25	22	18
13	16	193	81	81	181	81	2290	3570	33	25	21	17
14	15	190	58	81	138	53	1910	2790	34	25	21	17
15	15	190	104	94	140	53	1870	856	32	24	25	18
16	16	190	285	117	274	53	1840	1510	33	24	20	20
17	16	213	859	99	414	53	1420	4260	25	25	21	18
18	16	239	1300	58	414	61	512	4370	71	27	21	18
19	19	239	1320	28	355	67	211	3290	196	67	20	20
20	15	243	1290	27	207	54	88	3630	232	239	19	20
21	16	177	1280	30	136	166	87	3240	47	261	19	21
22	16	133	1130	160	104	312	91	2280	46	83	20	19
23	16	315	839	337	104	309	106	2510	61	82	20	19
24	16	312	846	856	104	256	116	4620	95	83	20	19
25	16	171	783	1540	167	106	140	4530	97	77	19	19
26	16	23	298	2150	179	105	125	4430	63	42	18	19
27	16	39	443	1830	50	106	70	2420	65	22	20	19
28	15	96	1400	1010	35	106	58	709	67	21	20	19
29	16	246	1840	645	---	98	103	339	155	21	19	19
30	17	438	1820	427	---	70	196	232	1050	21	18	21
31	17	---	1800	419	---	70	---	236	---	20	18	---
TOTAL	459.6	4439	21053	16877	9190	3095	16086	65074	8430	4322	646	555
MEAN	14.8	148	679	544	328	99.8	536	2099	281	139	20.8	18.5
MAX	19	438	1840	2150	1290	312	2470	4620	1360	1380	40	21
MIN	9.2	18	57	27	35	34	30	169	25	20	18	17

CAL YR 1982 TOTAL 161942.4 MEAN 444 MAX 3760 MIN 9.2
WTR YR 1983 TOTAL 150226.6 MEAN 412 MAX 4620 MIN 9.2

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 (0.3 km) downstream from Sugarcamp Run, 5 mi (8 km) upstream from mouth, and at mile 6.4 (10.3 km).

DRAINAGE AREA.--476 mi^2 (1,233 km^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 (154.543 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Records fair. Occasional regulation by Stonelick Lake 14 mi (23 km) upstream. Surface area at spillway level, 171 acres (69 hm^3). 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.--60 years (1915-17, 1925-83), 550 ft^3/s 15.58 m^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,400 ft^3/s (1,200 m^3/s) Mar. 10, 1964, gage height, 23.84 ft (7.266 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) July 24, 1930, Sept. 11, 12, 23, 1939; minimum gage height, -0.18 ft (-0.055 m) Oct. 3-7, 1917. Maximum discharge since start of construction of East Fork Dam 23,200 ft^3/s (657 m^3/s) Aug. 30, 1974, gage height, 19.52 ft (5.950 m), result of failure of cofferdam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft^3/s (312 m^3/s) May 3, gage height, 13.32 ft (4.060 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Oct. 1, 4-6, 22, 23, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	20	518	1790	569	69	91	2300	389	1640	31	35
2	18	19	553	1690	1150	65	75	2190	477	720	30	32
3	18	21	524	1330	1540	61	101	5680	807	340	30	28
4	17	22	497	924	1520	59	111	1500	1130	200	30	29
5	17	19	486	497	1330	58	86	925	746	180	31	32
6	17	19	507	491	898	64	146	739	780	390	45	36
7	18	20	440	464	482	69	221	670	1450	360	48	28
8	20	20	80	253	258	70	1240	1110	1460	200	36	25
9	20	20	97	125	169	159	1170	1800	674	110	37	25
10	22	222	97	117	202	322	956	2640	620	72	29	26
11	20	233	101	112	209	120	1270	2830	214	54	137	29
12	19	239	100	106	277	110	2340	2980	86	44	151	43
13	20	222	91	104	254	94	2320	2950	69	40	68	32
14	19	225	91	104	199	64	2400	2670	60	38	39	25
15	19	228	515	105	240	64	2300	3640	57	38	33	25
16	18	228	1420	137	428	64	1970	1840	56	36	35	31
17	18	248	974	136	617	65	1650	3280	59	38	30	35
18	18	289	1430	81	553	72	722	3510	61	63	34	30
19	19	283	1690	71	495	78	327	3010	191	529	34	28
20	18	303	1600	45	277	75	159	3170	319	243	31	28
21	18	366	1430	53	197	436	136	2840	66	404	29	48
22	17	208	1330	971	145	452	126	4850	62	107	28	35
23	17	383	1470	1190	137	375	140	2430	88	101	29	28
24	19	379	1400	1210	134	334	151	3720	130	102	29	27
25	18	336	1460	1640	154	142	184	3610	140	96	29	25
26	18	306	1910	2100	270	133	176	3530	80	75	28	28
27	19	306	1910	1930	93	138	107	2540	82	45	29	26
28	19	497	1990	1240	76	131	94	1010	86	35	33	27
29	17	406	1960	876	---	130	135	581	232	34	38	26
30	19	578	1860	856	---	99	1930	458	925	32	33	26
31	20	---	1810	718	---	93	---	341	---	31	34	---
TOTAL	573	6665	30341	21466	12873	4265	22844	75344	11596	6397	1278	902
MEAN	18.5	222	979	692	460	138	761	2430	387	206	41.2	30.1
MAX	22	578	1990	2100	1540	452	2400	5680	1460	1640	151	48
MIN	17	19	80	45	76	58	75	341	56	31	28	25

CAL YR 1982 TOTAL 226408 MEAN 620 MAX 5740 MIN 17
WTR YR 1983 TOTAL 194544 MEAN 533 MAX 5680 MIN 17

RESERVOIRS IN LITTLE MIAMI RIVER BASIN

03242340 CAESAR CREEK LAKE NEAR WELLMAN.--Lat 39°29'10", long 84°03'38", Warren County, Hydrologic Unit 05090202, in outlet structure of dam on Caesar Creek, 1.3 mi (2.1 km) west of Wellman, 3 mi (4.8 km) southwest of Harveysburg, and 3.1 mi (5.0 km) upstream from confluence with Little Miami River. DRAINAGE AREA, 237 mi^2 (613.8 km^2). PERIOD OF RECORD, October 1978 to September 1983 (discontinued). GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers.)

Lake is formed by an earth and rockfill dam with open cut spillway. Dam completed and storage began in January 1978. Usable capacity 242,200 acre-ft (298.63 hm^3) between elevation 739.0 ft (225.25 m) (lowest outlet) and 883.0 ft (269.14 m) (crest of spillway) of which 102,000 acre-ft (125.77 hm^3) is in conservation pool. Dead storage below elevation 739.0 ft (225.25 m) is 8 acre-ft (9864 m^3). Figures given herein represent usable contents. There are no gates on the spillway and all regulation is done by gates in conduit through dam. Reservoir is used for flood control, wild life conservation, water supply, pollution abatement, and recreation. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 148,200 acre-ft (183 hm^3) May 7, 1983, elevation 863.43 ft (263.173 m), minimum 68,040 acre-ft (83.9 hm^3) Jan. 15, 1979, elevation 835.88 ft (254.776 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents 148,200 acre-ft (183 hm^3) May 7, elevation 863.43 ft (263.173 m); minimum, 70,110 acre-ft (86.4 hm^3) Nov. 19, elevation 836.76 ft (255.044 m).

03247040 WILLIAM H. HARSHA LAKE NEAR BANTAM.--Lat 39°01'20", long 84°09'08", Clermont County, Hydrologic Unit 05090202, in outlet structure of dam on East Fork Little Miami River, 1.7 mi (2.74 km) north of Bantam, 4.2 mi (6.76 km) south of Batavia, and 20.3 mi (32.66 km) upstream from confluence with Little Miami River. DRAINAGE AREA, 342 mi^2 (886 km^2). PERIOD OF RECORD, October 1978 to September 1983 (discontinued). (Prior to October 1980 published as East Fork Lake near Bantam). GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Lake is formed by earthfill dam with open cut spillway. Dam was completed and storage began Feb. 6, 1978. Usable capacity 284,500 acre-ft (350 hm^3) between elevation 623.0 ft (189.89 m) (lowest outlet) and 795.0 ft (242.32 m) (crest of spillway). Seasonal pool storage 90,390 acre-ft (111 hm^3) elevation 733.0 ft (223.42 m). Dead storage 4 acre-ft (4,930 m^3) below 623.0 ft (189.89 m). Figures given herein represent usable contents. Lake is used primarily for flood control although seasonal pool is used for water supply, water quality control, recreation, and wildlife conservation purposes. Outflow is controlled by operation of gates in conduit through dam. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 163,100 acre-ft (201 hm^3) Mar. 2, 1979, elevation 761.64 ft (232.148 m); minimum, 24,820 acre-ft (30.6 hm^3) Oct. 26, 1978, elevation 690.09 ft (210.339 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 154,190 acre-ft (190 hm^3) May 8,9, elevation 758.60 ft (231.221 m); minimum, 81,980 acre-ft (101 hm^3) Feb. 26, elevation 728.91 ft (222.172 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03242340	CAESAR CREEK LAKE		03247040	WM. H. HARSHA LAKE	
Sept. 30.....	844.08	88,530	--	732.34	89,010	--
Oct. 31.....	836.89	70,410	-18,120	731.79	87,860	-1,150
Nov. 30.....	837.09	70,890	+480	730.58	85,360	+2,500
Dec. 31.....	842.21	83,630	+12,740	734.84	94,340	+8,980
CAL YR 1982	--	--	-10,340	--	--	+10,270
Jan. 31.....	846.66	95,500	+11,870	730.01	84,190	-10,150
Feb. 28.....	845.95	93,560	-1,940	729.02	82,200	-1,990
Mar. 31.....	846.01	93,720	+160	729.06	82,280	+80
Apr. 30.....	849.78	104,200	+10,480	737.30	99,770	+17,490
May 31.....	849.22	102,700	-1,500	733.50	91,460	-8,310
June 30.....	849.51	103,500	+800	734.46	93,520	+2,060
July 31.....	849.09	102,300	-1,200	732.96	90,310	-3,210
Aug. 31.....	848.75	101,300	-1,000	732.55	89,450	-860
Sept. 30.....	847.65	98,240	-3,060	731.81	87,900	-1,550
WTR YR 1983	--	--	+9,710	--	--	-1,110

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 (1.6 km) upstream from West Fork Mill Creek, and 13.0 mi (20.9 km) upstream from mouth.

DRAINAGE AREA.--73.0 mi² (189 km²).

PERIOD OF RECORD.--October 1938 to April 1939, June 1939 to current year.

REVISED RECORDS.--WSP 1908. Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 527.00 ft (160.630 m) Ohio River datum. Prior to Oct. 1, 1951, water-stage recorder or nonrecording gage at same site at datum 4.00 ft (1.219 m) higher. Oct. 1, 1951, to Apr. 25, 1954, nonrecording gage at present site and datum.

REMARKS.--Records good. Some diversion and ground water pumpage from Mill Creek and Great Miami River basin by industrial plants of the greater Cincinnati area upstream from station. Water-quality data collected at this site 1965 to 1977.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,780 ft³/s (164 m³/s) Mar. 6, 1945, gage height, 20.00 ft (6.096 m) present datum; no flow for many days in 1940-41, 1944, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s (48.1 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 8	1130	1840	52.1	9.97	3.039	May 3	0700	*3220	91.2	*13.42	4.090
May 1	1200	2160	61.2	10.79	3.289	May 15	1100	2340	66.3	11.25	3.429
May 2	1800	3050	86.4	13.01	3.965						

Minimum daily 5.2 ft³/s (0.15 m³/s) Oct. 16.

REVISIONS--The peak discharges and annual maximums (*) for water years 1980-1982 have ben revised as shown in the following table. They supersede figures published in the reports for 1980-1982.

Water year	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Water year	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
1980	Nov. 24,1979	0100	2000	56.6	10.38	3.164	1980	July 10,1980	0730	*3850	109	*14.95	4.557
1980	Dec. 24,1979	0700	1710	48.4	9.68	2.950	1980	Aug. 7,1980	0400	1730	49.0	9.73	2.966
1980	Jan. 11,1980	0930	2170	61.5	10.82	3.298	1980	Aug. 18,1980	2330	2120	60.0	10.68	3.255
1980	July 8,1980	2230	2740	77.6	12.25	3.734							
1981	Apr. 23,1981	0600	2130	60.3	10.71	3.264	1981	May 27,1981	2000	2180	61.7	10.85	3.307
1981	May 18,1981	1500	1770	50.1	9.82	2.993	1981	June 12,1981	1600	*2830	80.1	*12.48	3.804
1981	May 26,1981	1630	1900	53.8	10.14	3.091							
1982	Jan. 23,1982	0330	3160	89.5	13.28	4.048	1982	Apr. 3,1982	0700	1990	56.4	10.37	3.161
1982	Jan. 31,1982	1130	3670	104	14.51	4.423	1982	May 21,1982	1730	1940	54.9	10.24	3.121
1982	Mar. 26,1982	0030	*4510	128	*16.52	5.035	1982	June 8,1982	1830	2930	83.0	12.71	3.874

03255500 MILL CREEK AT READING, OH --continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	8.1	32	35	42	20	25	1110	40	12	9.3	20
2	6.0	22	40	30	288	19	52	1830	34	9.5	7.9	9.7
3	10	27	25	29	130	18	50	1980	140	13	7.7	7.0
4	47	11	19	27	66	19	32	597	77	215	7.7	5.6
5	20	7.9	27	26	43	17	26	196	37	64	7.7	6.6
6	11	6.4	23	27	42	64	61	121	30	18	7.7	8.9
7	14	5.6	18	26	44	27	102	115	27	14	7.7	9.7
8	10	7.9	16	22	35	60	900	160	25	13	7.7	9.7
9	17	8.4	16	19	34	30	422	77	24	11	8.4	9.3
10	13	8.4	16	29	34	22	204	60	22	10	6.6	7.7
11	7.5	14	20	26	42	21	150	52	19	10	199	67
12	8.0	108	13	21	34	18	94	46	17	10	20	23
13	8.5	19	14	19	27	16	168	40	17	10	7.7	12
14	6.5	6.8	15	19	30	17	509	128	17	10	6.3	7.0
15	7.0	6.6	245	18	35	15	183	1390	16	9.9	8.5	6.3
16	5.2	7.1	173	16	33	14	100	629	18	9.5	8.9	25
17	5.6	7.5	46	15	30	30	71	168	52	9.3	11	10
18	6.5	8.4	32	13	27	35	57	96	23	18	9.7	7.7
19	7.0	8.2	107	11	25	20	49	126	117	47	10	8.9
20	14	57	61	10	22	71	42	73	45	13	8.5	12
21	8.5	235	42	91	23	367	38	56	20	12	6.3	119
22	6.5	145	38	478	24	65	33	562	18	11	8.5	14
23	5.6	55	98	170	24	41	33	128	17	12	9.3	7.7
24	6.1	41	63	113	23	34	50	72	15	11	9.7	6.3
25	5.6	12	190	78	24	29	28	55	13	9.2	8.9	5.3
26	7.0	24	143	59	19	25	25	47	11	9.0	8.9	6.6
27	7.5	27	709	49	17	31	24	39	14	9.6	22	6.3
28	7.5	356	211	34	20	28	32	72	16	9.0	39	6.6
29	7.5	75	115	32	---	22	27	233	49	8.9	32	6.6
30	6.8	32	75	76	---	20	391	94	16	8.4	10	7.7
31	17	---	42	47	---	20	---	50	---	8.4	60	---
TOTAL	317.9	1357.3	2684	1665	1237	1235	3978	10402	986	634.7	582.6	459.2
MEAN	10.3	45.2	86.6	53.7	44.2	39.8	133	336	32.9	20.5	18.8	15.3
MAX	47	356	709	478	288	367	900	1980	140	215	199	119
MIN	5.2	5.6	13	10	17	14	24	39	11	8.4	6.3	5.3

CAL YR 1982 TOTAL 32121.0 MEAN 88.0 MAX 3000 MIN 5.2
WTR YR 1983 TOTAL 25538.7 MEAN 70.0 MAX 1980 MIN 5.2

03256500 WEST FORK MILL CREEK LAKE NEAR GREENHILLS, OH

LOCATION.--Lat 39°15'34", long 84°29'41", in SE 1/4 sec.17, T.3, R.1, Hamilton County, Hydrologic Unit 05090203, in gate house of dam on West Fork Mill Creek, 1.2 mi (1.9 km) east of Greenhills.

DRAINAGE AREA.--29.9 mi^2 (77.4 km^2).

PERIOD OF RECORD.--April 1953 to September 1983 (discontinued). Prior to October 1971, published as West Fork Mill Creek Reservoir near Greenhills, Ohio.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers); gage readings have been reduced to elevations above National Geodetic Vertical Datum.

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway; operation for flood control began Dec. 20, 1952; storage to maintain conservation pool began Apr. 19, 1953. Usable capacity 11,310 acre-ft (13.9 hm^3) between elevations 655.0 ft (199.64 m), lowest outlet, and 702.0 ft (213.97 m), crest of spillway, of which 1,470 acre-ft (1.81 hm^3) is in conservation pool. Dead storage below elevation 655.0 ft (199.64 m), 65 acre-ft (80,100 m^3). Figures given herein represent usable contents. Reservoir is used for flood control and recreation. There are no gates on spillway and all regulation is done by gates in conduit through dam.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 9,680 acre-ft (11.9 hm^3) Jan. 22, 1959, elevation, 698.95 ft (213.040 m); minimum, 694 acre-ft (0.86 hm^3) Jan. 3, 1983, elevation, 669.68 ft (204.118 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,060 acre-ft (8.70 hm^3) May 4, elevation, 693.31 ft (211.321 m); minimum, 694 acre-ft (0.86 hm^3) Jan. 3, elevation, 669.68 ft (204.118 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	675.13	1490	--
Oct. 31	670.07	737	-753
Nov. 30	679.30	2390	+1653
Dec. 31	670.14	746	-1644
CAL YR 1982	--	--	-484
Jan. 31	670.35	771	+25
Feb. 28	671.21	877	+106
Mar. 31	675.04	1470	+593
Apr. 30	676.55	1770	+300
May 31	675.51	1560	-210
June 30	674.80	1430	-130
July 31	675.27	1520	+90
Aug. 31	676.45	1750	+230
Sept. 30	675.12	1490	-260
WTR YR 1983	--	--	0

03257500 WEST FORK MILL CREEK AT WOODLAWN, OH

LOCATION.--Lat 39°15'14", long 84°28'13", in NE 1/4 sec.10, R.1, T.3, Hamilton County, Hydrologic Unit 05090203, on left bank at upstream side of Riddle Road Bridge in Woodlawn, 0.5 mi (0.8 km) upstream from small left bank tributary, 1.9 mi (3.1 km) downstream from West Fork Mill Creek Dam, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--32.2 mi^2 (83.4 km^2).

PERIOD OF RECORD.--December 1952 to September 1983 (discontinued as a continuous record station; converted to a stage only station).

REVISED RECORDS.--WSP 1908. Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 570.00 ft (173.736 m) Corps of Engineers bench mark.

REMARKS.--Records poor. Flow regulated by West Fork Mill Creek Reservoir 1.9 mi (3.1 km) upstream beginning 1953 (see station 03256500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--30 years (1953-83), 32.7 ft^3/s (0.926 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Apr. 4, 1956, gage height, 6.82 ft (2.079 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft^3/s (30.9 m^3/s) May 5, gage height, 6.27 ft (1.911 m); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) Oct. 6, Nov. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	.22	.19	6.6	1.5	1.8	2.3	171	44	1.5	.31	22
2	.13	.11	.18	15	12	1.8	4.1	187	32	1.8	.31	41
3	.07	.33	35	11	4.3	1.8	3.9	83	14	1.7	.16	33
4	.03	.22	174	.89	2.0	1.8	97	463	151	12	.19	12
5	.02	.09	166	.75	1.2	2.7	13	1010	24	106	.21	.82
6	.01	.04	184	.67	1.3	4.9	17	953	20	64	.21	.82
7	.04	.03	185	.67	1.3	2.5	60	697	5.0	2.0	.21	.82
8	.02	.02	59	.67	63	4.4	38	216	4.6	.86	.19	.49
9	.04	.01	.22	.67	177	2.6	110	44	4.6	.64	.21	.33
10	.05	.01	.07	.83	77	1.2	307	15	4.6	.55	.20	.31
11	.03	.01	.07	.82	7.3	.99	266	4.4	4.6	.44	6.0	2.0
12	.02	.57	.04	.82	21	.99	229	14	4.6	.45	6.4	.66
13	.02	.55	.02	.82	11	.99	88	16	4.6	.45	63	.35
14	.02	.19	.02	.82	4.6	.99	123	18	4.5	.45	95	.31
15	5.9	.11	6.2	.82	9.7	.99	255	42	4.1	.37	.44	.31
16	7.3	.05	2.8	.82	12	.99	93	300	4.1	.37	.28	.57
17	4.5	.04	.69	.25	6.7	.99	36	454	6.9	.37	.26	.31
18	.29	.04	.62	.20	1.8	1.5	6.2	19	4.3	.47	.26	.31
19	.09	.04	2.6	.19	1.8	1.1	3.7	20	8.3	.57	.26	.19
20	.08	.31	.90	.17	1.8	8.4	3.0	27	23	.45	.26	1.3
21	.05	2.8	.51	1.0	1.8	245	2.5	32	14	.45	.26	50
22	64	2.5	.54	19	1.8	81	2.2	46	2.5	.37	.26	6.8
23	193	.35	1.7	84	1.8	19	2.4	213	1.1	.49	.26	5.1
24	57	.45	1.3	94	1.8	3.7	3.4	45	.99	.38	.26	.81
25	.20	.42	8.1	80	1.7	2.9	2.3	44	.99	.26	.26	.37
26	.06	.29	2.6	77	1.8	2.6	2.2	25	.99	.22	.19	.27
27	.04	.60	160	74	1.8	2.6	1.8	5.7	1.0	.21	1.0	.26
28	.03	7.7	639	71	1.8	22	2.0	15	1.5	.23	.67	.25
29	.02	.63	505	36	---	18	5.2	48	1.6	.21	.36	.24
30	.02	.24	60	20	---	1.9	238	78	1.0	.18	.31	.21
31	6.3	---	13	15	---	1.8	---	45	---	.24	6.3	---
TOTAL	339.69	18.97	2209.37	614.48	432.6	443.93	2017.2	5350.1	398.47	198.68	184.49	182.22
MEAN	11.0	.63	71.3	19.8	15.5	14.3	67.2	173	13.3	6.41	5.95	6.07
MAX	193	7.7	639	94	177	245	307	1010	151	106	95	50
MIN	.01	.01	.02	.17	1.2	.99	1.8	4.4	.99	.18	.16	.19

CAL YR 1982 TOTAL 15358.03 MEAN 42.1 MAX 832 MIN .01
WTR YR 1983 TOTAL 12390.20 MEAN 33.9 MAX 1010 MIN .01

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 100 ft (30 m) downstream from Anthony Wayne Avenue Bridge in Carthage, 1.0 mi (1.6 km) downstream from West Fork Mill Creek, and 11.0 mi (17.7 km) upstream from mouth.

DRAINAGE AREA.--115 mi^2 (298 km^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 (157.582 m) revised Ohio River datum. Prior to Oct. 1, 1954 at site 100 ft (30 m) upstream at datum 5.00 ft (1.524 m) higher. Oct. 1, 1954 to Sept. 30, 1977 at same site at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records good except periods of doubtful record, Oct. 1-27, 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 (11.1 km) upstream, beginning 1953 (see station 03256500). Water-quality data collected at this site 1965 to 1977.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,030 ft^3/s (256 m^3/s) Sept. 14, 1979, gage height, 21.82 ft (6.651 m) present datum, from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,800 ft^3/s (108 m^3/s) May 3, gage height 15.44 ft (4.706 m); minimum daily, 2.9 ft^3/s (0.082 m^3/s) Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	15	31	38	47	22	22	1150	97	13	7.8	35
2	6.2	21	42	43	320	21	56	1840	82	11	8.0	50
3	11	39	29	45	168	20	51	2160	179	15	7.8	43
4	56	16	196	27	82	21	107	902	243	230	8.3	19
5	19	9.5	198	24	40	20	34	983	58	186	12	8.9
6	10	5.0	205	25	40	83	88	869	58	119	16	9.4
7	13	2.9	206	24	45	33	158	712	29	14	11	9.6
8	8.6	5.1	103	19	60	76	845	449	25	12	8.3	9.7
9	16	7.7	16	18	219	37	514	160	24	11	7.5	8.8
10	13	6.9	15	26	143	26	444	109	22	9.6	6.8	9.0
11	6.6	16	18	25	55	23	392	64	19	9.9	217	94
12	7.0	129	11	20	58	20	296	56	17	9.9	29	36
13	7.6	24	12	18	45	17	259	57	18	9.9	69	16
14	6.0	8.6	13	16	35	14	599	152	17	10	114	9.8
15	12	7.2	263	17	45	13	404	1290	16	10	11	8.8
16	12	7.4	221	15	50	12	210	830	17	9.8	9.5	26
17	9.6	7.4	49	10	43	26	127	630	61	8.5	10	12
18	6.0	8.6	31	8.0	30	31	77	125	31	20	9.2	9.3
19	6.8	7.8	127	7.0	27	17	57	171	144	56	9.8	9.3
20	15	68	71	6.0	24	75	51	108	86	14	9.2	12
21	8.2	285	40	100	24	568	44	102	41	11	8.3	224
22	60	184	38	512	25	164	36	657	19	11	8.7	23
23	200	66	140	271	26	69	36	360	17	11	10	14
24	64	48	77	219	25	32	57	144	14	11	11	10
25	6.2	17	210	184	27	27	28	120	12	8.6	9.6	8.7
26	6.6	25	180	162	22	23	24	97	11	8.8	9.9	8.4
27	7.0	32	764	149	19	28	23	47	13	8.9	25	8.4
28	8.9	396	677	125	21	39	32	79	17	8.1	41	8.4
29	8.7	86	560	91	---	44	29	315	65	8.3	46	8.4
30	8.2	34	165	111	---	19	557	219	17	7.6	11	8.4
31	32	---	59	85	---	18	---	113	---	7.7	94	---
TOTAL	660.2	1585.1	4767	2440.0	1765	1638	5707	15070	1469	880.6	855.7	757.3
MEAN	21.3	52.8	154	78.7	63.0	52.8	190	486	49.0	28.4	27.6	25.2
MAX	200	396	764	512	320	568	845	2160	243	230	217	224
MIN	6.0	2.9	11	6.0	19	12	22	47	11	7.6	6.8	8.4

CAL YR 1982 TOTAL 49835.3 MEAN 137 MAX 2960 MIN 1.8
WTR YR 1983 TOTAL 37594.9 MEAN 103 MAX 2160 MIN 2.9

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 (3 km) downstream from Bluejacket Creek, 2.8 mi (4.5 km) northeast of De Graff, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--36.3 mi² (94.0 km²).

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1962, published as Buckongahelas Creek near Degraff.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,008.76 ft (307.470 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for the winter period, which are poor. Diurnal fluctuation caused by municipal plant operation in Bellefontaine, 9.8 mi (15.8 km) upstream; since storage capacity is small, daily flows are not affected appreciably. Water-quality data collected at this site 1965 to 1973.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--26 years, 32.8 ft³/s (0.929 m³/s), 12.27 in/yr (312 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Jan. 21, 1959, gage height, 6.83 ft (2.082 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 29, 30, Oct. 7, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Dec. 27	1900	* 380	10.8	* 4.00	1.219	May 2	1015	370	10.5	3.97	1.201

Minimum daily discharge, 7.0 ft³/s (0.20 m³/s) Oct. 2, Nov. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	8.9	50	42	22	18	22	151	38	57	11	8.1
2	7.0	12	38	36	45	18	26	251	35	41	10	8.1
3	7.3	8.6	30	31	46	18	30	197	30	23	10	7.7
4	7.6	8.3	32	26	32	18	28	143	31	21	11	7.1
5	7.6	7.5	28	24	26	18	26	82	28	59	11	7.1
6	7.6	7.4	24	23	23	19	28	61	26	28	10	8.1
7	9.5	7.8	22	23	22	23	41	54	25	21	9.3	12
8	8.7	7.6	20	22	22	26	37	84	22	18	9.3	8.1
9	8.9	7.3	19	20	20	24	112	60	20	17	9.3	8.1
10	9.5	7.5	18	21	20	23	120	49	20	22	9.3	7.7
11	8.7	14	17	23	21	23	61	46	19	16	9.3	7.1
12	8.6	9.3	16	20	21	22	48	46	18	15	9.3	7.4
13	8.0	7.6	15	18	20	22	52	45	17	14	8.9	7.7
14	7.9	7.3	14	18	20	22	133	45	17	14	8.9	8.1
15	7.5	7.2	22	18	21	21	106	45	16	13	8.9	7.7
16	7.4	7.0	123	18	22	21	59	44	20	12	8.9	8.5
17	7.7	7.0	44	17	23	20	50	42	16	13	8.9	8.1
18	7.8	7.1	24	17	22	21	45	39	16	46	8.9	7.4
19	8.8	9.5	26	17	21	24	44	38	41	36	8.9	7.4
20	8.2	41	29	16	20	22	41	37	42	17	8.5	8.5
21	8.0	29	20	18	20	36	38	36	28	14	8.1	11
22	7.3	46	15	23	21	29	35	45	20	22	8.1	8.1
23	7.2	42	18	33	21	25	31	45	17	16	8.5	8.1
24	7.6	64	18	31	20	24	29	42	15	13	8.5	8.1
25	7.6	52	16	26	20	23	28	41	14	12	8.5	7.4
26	7.7	40	20	23	18	23	26	44	13	12	8.5	7.7
27	7.8	50	166	22	18	23	26	39	14	12	8.9	8.1
28	8.1	70	184	20	18	25	31	36	28	11	10	7.7
29	7.6	110	82	20	---	23	35	44	30	11	8.1	7.7
30	7.6	75	54	23	---	23	47	46	39	11	8.1	7.7
31	10	---	45	23	---	23	---	43	---	10	8.9	---
TOTAL	248.8	777.9	1249	712	645	700	1435	2020	715	647	283.8	241.6
MEAN	8.03	25.9	40.3	23.0	23.0	22.6	47.8	65.2	23.8	20.9	9.15	8.05
MAX	10	110	184	42	46	36	133	251	42	59	11	12
MIN	7.0	7.0	14	16	18	18	22	36	13	10	8.1	7.1
CFSM	.22	.71	1.11	.63	.63	.62	1.32	1.80	.66	.58	.25	.22
IN.	.25	.80	1.28	.73	.66	.72	1.47	2.07	.73	.66	.29	.25

CAL YR 1982 TOTAL 16081.0 MEAN 44.1 MAX 550 MIN 7.0 CFSM 1.22 IN 16.48
WTR YR 1983 TOTAL 9675.1 MEAN 26.5 MAX 251 MIN 7.0 CFSM .73 IN 9.91

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 (15 m) upstream from North Street Bridge in Sidney, and 0.5 mi (0.8 km) downstream from Tawawa Creek.

DRAINAGE AREA.--541 mi² (1,401 km²).

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1962, published as Miami River at Sidney.

REVISED RECORDS.--WSP 1305: 1914(M), 1922(M). WSP 1908. Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 924.70 ft (281.849 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft (15) m) downstream at datum 1.76 ft (0.536 m) higher. Sept. 18, 1919, to August, 1925, nonrecording gage at site 50 ft (15 m) downstream at present datum.

REMARKS.--Records good except those for the winter period, which are fair. Water supply for city of Sidney is pumped from the Great Miami River 1,200 ft (366 m) upstream and from wells adjacent to Great Miami River upstream from station. The pumpage averaged 4.0 ft³/s (0.11 m³/s) in 1983 and is returned as sewage 1.2 mi (1.9 km) downstream from the station. Some regulation by Indian Lake, 28 mi (45 km) upstream, capacity, 45,900 acre-ft (56.6 hm³); water diverted into Miami and Erie Canal at Port Jefferson, 2.8 mi (4.5 km) upstream, prior to 1926; amount of diversion not published. Sediment data collected at this site 1967 to 1975.

COOPERATION.--Gage-height tapes, and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--58 years (1925-83) 477 ft³/s (13.51 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,700 ft³/s (586 m³/s) Mar. 20, 1927, gage height 14.4 ft (4.39 m), from rating curve extended above 8,700 ft³/s (246 m³/s) on basis of velocity-area studies; maximum gage height, 15.91 ft (4.849 m) Jan. 21, 1959; minimum discharge, 1.5 ft³/s (0.041 m³/s) Aug. 13 1963, result of temporary storage behind dam upstream; minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Sept. 23, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 19.6 ft (5.97 m), present datum, discharge, 44,000 ft³/s (1,250 m³/s), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 4,680 ft³/s (133 m³/s) May 3, gage height 7.86 ft (2.396 m), above base of 4,000 ft³/s (113 m³/s); minimum daily discharge 24 ft³/s (0.68 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	50	489	498	240	132	193	2540	166	829	65	38
2	48	63	397	403	442	131	257	4180	183	824	60	39
3	45	68	353	392	1180	127	645	4480	180	442	59	39
4	45	71	329	309	910	124	627	4120	190	311	58	38
5	45	66	316	262	591	122	434	2970	202	449	61	37
6	43	59	318	247	512	141	356	2140	184	420	62	35
7	52	55	252	236	450	177	399	1470	185	218	60	36
8	58	52	162	317	410	280	473	1350	171	185	58	42
9	85	51	144	371	380	446	789	1260	163	161	53	40
10	95	61	134	374	360	335	1980	830	142	151	50	38
11	92	57	130	350	340	255	1420	629	129	148	51	34
12	74	63	120	310	274	235	1020	518	135	129	52	30
13	61	81	110	290	177	212	845	438	128	115	53	27
14	55	84	110	270	171	198	1960	390	116	109	53	25
15	51	71	120	250	176	184	2650	436	109	101	50	24
16	49	61	1160	240	185	165	1930	489	110	93	47	28
17	48	90	1210	230	210	155	1400	402	106	92	46	30
18	49	186	630	220	222	157	1010	317	109	119	44	31
19	48	181	435	210	210	166	708	284	634	157	44	30
20	49	193	555	220	195	172	559	266	825	155	43	29
21	51	343	462	300	179	377	444	285	485	120	40	41
22	51	412	334	400	172	601	360	307	291	103	40	46
23	50	374	307	335	173	368	305	370	203	117	39	41
24	49	598	369	388	169	273	376	399	165	111	36	37
25	46	493	356	335	157	233	411	311	146	103	36	34
26	46	361	454	268	143	204	269	314	135	92	36	33
27	46	433	1280	223	134	207	165	295	124	82	37	30
28	47	513	2980	196	130	223	269	225	239	76	37	29
29	49	919	2070	184	---	231	320	217	897	71	42	29
30	48	710	1140	204	---	208	605	296	591	68	41	27
31	49	---	662	258	---	195	---	237	---	67	39	---
TOTAL	1675	6819	17888	9090	8892	7034	23179	32765	7443	6218	1492	1017
MEAN	54.0	227	577	293	318	227	773	1057	248	201	48.1	33.9
MAX	95	919	2980	498	1180	601	2650	4480	897	829	65	46
MIN	43	50	110	184	130	122	165	217	106	67	36	24

CAL YR 1982 TOTAL 248839 MEAN 682 MAX 6200 MIN 40
WTR YR 1983 TOTAL 123512 MEAN 338 MAX 4480 MIN 24

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 (1.8 km) northwest of Newport, 3 mi (5 km) south of Fort Loramie, 3 mi (5 km) downstream from Mile Creek, and at mile 16.5 (26.6 km).

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WRD Ohio 1971: 1966(M).

GAGE.--Water-stage recorder. Datum of gage is 926.57 ft (282.419 m) National Geodetic Vertical Datum of 1929. October 1, 1964 to September 30, 1980 Water-stage recorder at same site at datum 0.43 ft (0.131 m) higher.

REMARKS.--Records fair. Some regulation by Lake Loramie 5 mi (8 km) upstream, capacity, 13,000 acre-ft (16.0 hm³). Sediment data collected at this site 1967 to 1975.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--19 years, 130 ft³/s (3.682 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft³/s (102 m³/s) June 14, 1981, maximum gage height, 14.08 ft (4.292 m) Feb. 24, 1975; minimum daily, 0.10 ft³/s (0.003 m³/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 (5.18 m) and flood of Jan. 21, 1959 a stage of 14.2 ft (4.33 m), from flood profile furnished by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,910 ft³/s (54.1 m³/s) May 2, gage height 11.47 ft (3.496 m), above base of 1500 ft³/s (42.5 m³/s); minimum daily discharge 0.30 ft³/s (0.008 m³/s) Aug. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	.75	54	62	46	17	41	1090	21	281	2.0	.47
2	.57	.97	36	40	199	17	200	1730	18	132	1.8	.57
3	.57	3.8	27	33	461	15	649	1740	17	64	1.8	.57
4	.69	2.4	29	29	268	14	457	1260	20	39	1.6	.47
5	.69	1.3	27	27	130	14	277	657	17	102	2.0	.42
6	.82	.97	22	24	92	17	200	385	20	62	2.0	.38
7	1.0	.82	21	22	76	23	408	170	21	28	1.5	2.7
8	2.3	.97	17	19	55	69	385	138	17	15	1.2	2.9
9	3.1	.82	15	20	46	217	227	135	12	10	1.2	1.9
10	5.8	.63	11	18	41	116	276	103	9.8	7.9	1.3	1.2
11	3.8	.57	9.0	21	38	83	232	81	9.4	5.8	1.1	1.0
12	3.3	1.9	8.0	20	31	61	197	67	9.4	4.4	1.9	.57
13	3.3	3.8	7.2	15	25	47	211	54	8.6	3.4	1.6	.38
14	3.1	1.9	6.8	15	26	42	632	43	7.9	2.6	1.0	.32
15	3.3	1.6	11	15	28	37	1100	48	7.3	2.4	.75	.32
16	3.4	1.0	320	13	30	31	699	49	7.8	3.0	.69	.34
17	2.9	.75	195	11	39	25	346	33	11	3.5	.63	.63
18	2.6	.57	98	10	43	25	255	29	9.9	4.5	.75	.69
19	1.3	.47	130	9.4	43	25	215	27	93	5.4	.57	.57
20	.52	1.0	128	9.0	39	24	49	39	130	10	.34	.47
21	.82	8.6	85	9.2	33	246	43	35	59	5.6	.38	2.7
22	.75	6.3	67	19	31	276	44	77	30	4.1	.38	3.1
23	.69	11	68	84	33	151	47	139	19	4.6	.34	1.6
24	.75	12	71	123	29	105	52	103	13	4.5	.30	1.3
25	.89	4.5	83	102	27	79	32	71	10	3.7	.30	.97
26	.82	5.8	92	79	19	60	25	67	7.3	3.8	.32	.97
27	.82	13	617	59	16	55	23	45	5.9	3.8	.47	.97
28	.82	64	598	44	15	62	49	33	13	3.6	.69	.89
29	.75	115	276	39	---	58	59	29	97	3.0	.57	.89
30	.75	82	130	43	---	47	168	28	116	2.6	.42	.89
31	.75	---	85	48	---	43	---	23	---	2.2	.38	---
TOTAL	52.24	349.19	3344.0	1082.6	1959	2101	7598	8528	837.3	827.4	30.28	31.15
MEAN	1.69	11.6	108	34.9	70.0	67.8	253	275	27.9	26.7	.98	1.04
MAX	5.8	115	617	123	461	276	1100	1740	130	281	2.0	3.1
MIN	.52	.47	6.8	9.0	15	14	23	23	5.9	2.2	.30	.32

CAL YR 1982 TOTAL 66586.22 MEAN 182 MAX 2360 MIN .47
WTR YR 1983 TOTAL 26740.16 MEAN 73.3 MAX 1740 MIN .30

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 (396 m) downstream from Lockington Dam, 0.5 mi (0.8 km) northwest of Lockington, and at mile 1.9 (3.1 km).

DRAINAGE AREA.--257 mi^2 (666 km^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 (243.849 m) National Geodetic Vertical Datum of 1929. Prior to July 3, 1924, nonrecording gage at same site at datum 75.96 ft (23.153 m) higher. July 3, 1924, to Aug. 17, 1926, nonrecording gage, and Aug. 18 to Sept. 30, 1926, water-stage recorder, at same site at datum 74.96 ft (22.848 m) higher.

REMARKS.--Records fair. Slight regulation by Lake Loramie 18 mi (29 km) upstream, capacity, 13,000 acre-ft (16.0 hm^3). Flood flow regulated by Lockington retarding basin beginning in 1921.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--68 years, 208 ft^3/s (5.891 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) May 7, 1916, gage height, 86.4 ft (26.33 m), present datum, from rating curve extended above 5,400 ft^3/s (153 m^3/s); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Sept. 20, 1983

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 91.6 ft (27.92 m), present datum, discharge, 25,600 ft^3/s (725 m^3/s), at site upstream from Turtle Creek, drainage area, 211 mi^2 (546 km^2), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,440 ft^3/s (69.1 m^3/s) May 2, gage height, 81.31 ft (24.783 m); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	3.9	94	141	90	40	77	1730	52	554	9.1	5.0
2	3.7	4.3	68	106	368	43	247	2200	46	282	8.6	4.3
3	3.4	5.4	53	89	705	44	967	2260	43	137	8.1	2.1
4	3.1	6.3	46	70	392	42	713	1770	46	117	8.5	1.6
5	2.7	6.9	50	61	207	40	403	1040	45	312	8.5	1.6
6	2.7	5.8	47	57	151	44	306	534	39	136	6.9	1.6
7	2.7	5.3	40	54	124	54	461	339	45	79	5.1	2.1
8	3.5	4.9	35	48	97	89	545	306	41	52	7.7	2.1
9	4.6	4.7	29	43	81	283	337	255	36	40	6.9	3.3
10	6.2	4.6	26	41	76	197	384	195	29	33	6.4	3.3
11	5.4	4.8	23	43	73	142	334	156	23	29	7.1	2.5
12	4.9	5.2	20	40	66	112	288	126	24	25	6.9	2.1
13	4.6	6.1	18	39	56	92	281	110	22	22	5.4	1.8
14	4.5	7.0	17	33	52	81	1210	97	20	19	5.9	1.6
15	4.8	7.0	20	32	56	72	1490	93	19	17	6.9	1.6
16	5.0	6.0	437	29	59	64	1060	97	19	16	6.4	1.7
17	4.6	5.8	340	26	70	60	585	83	19	15	6.4	1.7
18	4.2	5.5	201	23	77	59	361	69	19	27	6.4	1.6
19	4.0	5.3	152	20	76	64	363	64	171	27	6.1	1.5
20	3.9	5.6	204	19	71	54	141	71	251	32	4.8	1.4
21	3.8	9.8	166	19	62	353	104	72	114	25	4.0	2.4
22	3.9	27	117	39	58	414	96	131	70	17	5.0	2.6
23	3.9	27	112	190	58	236	94	225	49	14	4.8	4.6
24	3.9	60	117	238	58	171	98	178	36	13	4.8	4.2
25	3.9	36	116	193	52	136	86	130	30	12	4.6	3.3
26	3.8	21	154	144	45	108	70	128	25	12	2.5	2.9
27	3.8	30	688	108	36	94	63	98	22	11	1.7	2.6
28	4.0	105	1090	86	36	103	133	78	55	11	2.1	2.4
29	3.9	193	702	75	---	95	174	69	315	10	4.8	2.2
30	3.8	139	346	81	---	83	371	68	260	9.9	5.7	2.1
31	3.9	---	201	102	---	80	---	58	---	9.6	5.4	---
TOTAL	125.2	758.2	5729	2289	3352	3549	11842	12830	1985	2115.5	183.5	73.8
MEAN	4.04	25.3	185	73.8	120	114	395	414	66.2	68.2	5.92	2.46
MAX	6.2	193	1090	238	705	414	1490	2260	315	554	9.1	5.0
MIN	2.7	3.9	17	19	36	40	63	58	19	9.6	1.7	1.4

CAL YR 1982 TOTAL 105086.2 MEAN 288 MAX 3290 MIN 2.7
WTR YR 1983 TOTAL 44832.2 MEAN 123 MAX 2260 MIN 1.4

GREAT MIAMI RIVER BASIN

03262700 GREAT MIAMI RIVER AT TROY, OH

LOCATION.--Lat 40°02'25", long 84°11'52", Miami County, Hydrologic Unit 05080001, 400 ft (122 m) downstream from B. and O. Railroad bridge, 1,300 ft (396 m) downstream from bridge on State Highway 55 at Troy, 1.2 mi (1.9 km) upstream from small left bank tributary, 2.3 mi (3.7 km) downstream from Spring Creek, and at mile 105 (169 km).

DRAINAGE AREA.--926 mi² (2,398 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961, 1962 (published as Miami River at Troy). October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.67 ft (247.092 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Flood flow regulated by retarding basin on Loramie Creek, 18 mi (29 km) upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft (56.6 hm³), 54 mi (87 km) upstream. Water supply for city of Troy is pumped from wells adjacent to the Great Miami River upstream from the station. The pumpage averaged 5.0 ft³/s (0.14 m³/s) in 1983 and is returned as sewage 1 mi (2 km) 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.--21 years, 800 ft³/s (22.66 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft³/s (490 m³/s) Mar. 6, 1963, gage height, 14.66 ft (4.468 m); minimum, 0.50 ft³/s (0.014 m³/s) July 12, 13, 1963, result of temporary storage during repair of dam upstream; minimum daily discharge, 4.3 ft³/s (0.122 m³/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 (5.00 m), discharge, 21,000 ft³/s (595 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,920 ft³/s (235 m³/s) May 2, gage height, 9.80 ft (2.987 m); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	76	676	815	445	205	344	4490	344	2040	86	46
2	72	79	531	651	699	210	419	6730	262	1750	81	32
3	65	106	459	586	2170	219	1730	7050	299	885	81	28
4	63	89	412	502	1820	214	1820	6290	304	554	76	33
5	63	81	393	432	1020	205	1110	4630	304	867	65	37
6	67	81	399	386	789	237	832	3420	299	715	58	38
7	76	76	374	368	707	299	894	2450	277	473	58	41
8	97	76	252	350	635	386	1290	2120	272	288	86	46
9	135	79	214	473	570	772	1210	2010	247	272	92	32
10	153	79	197	466	554	715	2850	1380	233	237	79	30
11	142	86	170	466	539	509	2450	1010	201	210	72	38
12	135	115	150	466	487	439	1770	806	180	210	69	41
13	112	103	140	420	326	393	1410	707	184	184	69	40
14	94	109	130	400	288	356	3040	626	176	168	69	38
15	76	112	160	370	288	338	5090	635	164	149	67	35
16	67	100	1240	340	293	304	3710	668	168	142	67	32
17	61	92	2020	310	315	277	2600	618	157	135	65	28
18	63	157	1080	280	350	283	1830	495	142	135	59	26
19	72	228	691	270	356	288	1380	452	1040	172	53	29
20	74	237	739	310	338	293	912	432	1700	201	45	37
21	76	321	748	360	310	643	715	439	903	184	44	77
22	76	502	554	495	277	1290	602	509	531	138	77	50
23	76	466	473	547	277	824	524	635	362	122	51	43
24	76	586	495	715	277	586	502	676	288	146	44	47
25	76	635	547	691	267	480	610	570	233	142	18	47
26	74	452	626	562	242	405	439	516	214	122	10	45
27	74	419	1880	445	223	368	368	509	237	106	12	35
28	72	594	4890	380	210	405	356	412	262	106	56	31
29	72	1070	3690	344	---	393	524	380	1780	97	35	30
30	69	987	2170	344	---	374	643	425	1160	92	50	30
31	69	---	1170	432	---	344	---	412	---	92	44	---
TOTAL	2591	8193	27670	13976	15072	13054	41974	52502	12923	11134	1838	1142
MEAN	83.6	273	893	451	538	421	1399	1694	431	359	59.3	38.1
MAX	153	1070	4890	815	2170	1290	5090	7050	1780	2040	92	77
MIN	61	76	130	270	210	205	344	380	142	92	10	26

CAL YR 1982 TOTAL 407627 MEAN 1117 MAX 10800 MIN 53
WTR YR 1983 TOTAL 202069 MEAN 554 MAX 7050 MIN 10

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 (1.3 km) north of Taylorsville, 2.1 mi (3.4 km) east of Vandalia, 9.5 mi (15.3 km) upstream from Stillwater River, and at mile 90.9 (146.3 km).

DRAINAGE AREA.--1,149 mi^2 (2,976 km^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 1921-62). Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site at Tadmor, January 1914 to July 1920, are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.11 ft (231.682 m) (Revised), National Geodetic Vertical Datum of 1929, levels by Miami Conservancy District. Prior to October 1921, nonrecording gage at site 1.7 mi (2.7 km) upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 50 ft (15.2 m) downstream at outlet works of Taylorsville Dam at datum 60.03 ft (18.297 m) lower, October 1921 to September 1978 at site 650 ft (198 m) downstream at datum 60.03 ft (18.297 m) lower.

REMARKS.--Records good except those for the winter period, which are fair. Flood flow regulated by retarding basins on Great Miami River, just downstream from station and on Loramie Creek 28 mi (45 km) upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake 64 mi (103 km) upstream from station, and by Lake Loramie 47 mi (76 km) upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft (72.6 hm^3).

COOPERATION.--Base data furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--65 years, 998 ft^3/s (28.26 m^3/s), 11.80 in/yr (300 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft^3/s (889 m^3/s) Jan. 22, 1959, gage height, 75.44 ft (22.994 m) at site and datum then in use; minimum daily, 25 ft^3/s (0.71 m^3/s) July 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 25.4 ft (7.74 m) at site at Tadmor, discharge, 127,000 ft^3/s (3,600 m^3/s) computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,900 ft^3/s (309 m^3/s) May 4, gage height, 14.97 ft (4.563 m); minimum daily, 52 ft^3/s (1.47 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	143	901	1170	644	302	463	5280	510	1900	135	84
2	121	130	700	948	879	305	540	8460	411	1730	135	79
3	98	150	602	823	2190	305	1450	10500	442	1140	125	70
4	92	159	540	747	2050	299	1910	10000	461	743	127	63
5	93	126	517	633	1330	293	1350	6370	429	917	125	68
6	112	127	506	575	1040	366	1060	4040	424	881	106	70
7	118	122	489	550	941	430	1040	2850	402	662	104	71
8	133	114	385	506	837	526	1480	2530	398	424	106	71
9	142	124	293	597	757	857	1640	2360	364	373	137	67
10	221	125	271	626	725	938	2900	1840	341	325	118	62
11	168	128	267	632	702	710	2700	1430	307	292	120	60
12	173	169	247	618	657	599	2020	1210	289	285	113	69
13	152	177	229	618	503	538	1700	1060	289	256	109	69
14	136	153	206	570	422	497	2810	954	278	235	102	65
15	121	159	267	558	420	464	5850	997	260	218	109	61
16	108	155	995	510	426	420	4160	992	264	208	106	62
17	99	140	2170	460	445	383	2820	922	407	218	104	58
18	97	146	1440	420	482	393	2070	781	307	245	98	54
19	109	282	975	400	487	399	1640	720	683	225	98	52
20	118	296	946	380	462	392	1260	673	1750	264	90	63
21	121	466	996	480	427	660	997	637	1140	256	84	99
22	120	649	776	720	403	1380	855	767	734	218	104	100
23	119	627	651	918	393	1050	757	881	528	184	108	75
24	127	678	646	1060	390	769	709	886	407	466	93	75
25	133	827	725	994	360	641	791	806	337	260	84	76
26	120	623	825	828	340	558	688	725	303	235	59	77
27	115	538	2200	681	320	511	560	688	289	199	58	74
28	113	801	5650	577	310	550	497	603	394	169	77	69
29	120	1160	4280	516	---	533	678	551	1290	157	81	66
30	127	1240	2550	525	---	505	870	574	1480	151	79	65
31	127	---	1590	625	---	469	---	593	---	135	86	---
TOTAL	3900	10734	33835	20265	19342	17042	48265	71680	15918	13971	3180	2094
MEAN	126	358	1091	654	691	550	1609	2312	531	451	103	69.8
MAX	221	1240	5650	1170	2190	1380	5850	10500	1750	1900	137	100
MIN	92	114	206	380	310	293	463	551	260	135	58	52
CFSM	.11	.31	.95	.57	.60	.48	1.40	2.01	.46	.39	.09	.06
IN.	.13	.35	1.10	.66	.63	.55	1.56	2.32	.52	.45	.10	.07

CAL YR 1982 TOTAL 499121 MEAN 1367 MAX 14700 MIN 92 CFSM 1.19 IN 16.16
WTR YR 1983 TOTAL 260226 MEAN 713 MAX 10500 MIN 52 CFSM .62 IN 8.43

GREAT MIAMI RIVER BASIN

03264000 GREENVILLE CREEK NEAR BRADFORD, OH

LOCATION --Lat 40°06'08", long 84°25'48", in SW 1/4 NW 1/4 sec. 34, T.9 N., R.4 E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on State Highway 721, 0.8 mi (1.3 km) downstream from small left bank tributary, 1.8 mi (2.9 km) south of Bradford, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to April 1931, monthly discharge only, published in WSP 1305.

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 (289.22 m) 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 (61 m) downstream at same datum.

REMARKS.--Records fair. Some diurnal fluctuation caused by mill 8 mi (13 km) upstream from station; daily flows are not affected appreciably. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--53 years, 172 ft³/s (4.871 m³/s), 12.10 in/yr (307 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,320 ft³/s (264 m³/s) May 14, 1933, gage height, 9.2 ft (2.80 m); maximum gage height, 10.31 ft (3.142 m) Mar. 5, 1963, from high-water mark in well (ice jam); minimum discharge, 4.8 ft³/s (0.14 m³/s) Sept. 17, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 12.1ft (3.69 m), discharge, 18,200 ft³/s (515 m³/s), at site with drainage area of 213 mi² (552 km²), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,480 ft³/s (41.9 m³/s) May 2, gage height 5.13 ft (1.564 m), above base of 1500 ft³/s (42.5 m³/s); minimum daily discharge 8.2 ft³/s (0.23 m³/s) Sept. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	27	72	166	112	65	87	996	104	167	26	12
2	22	28	60	141	245	65	142	1290	96	110	26	8.3
3	20	48	53	120	513	62	281	1380	92	76	26	8.2
4	20	29	55	103	300	61	225	1010	94	74	25	8.2
5	21	27	55	92	193	60	130	602	90	173	25	9.4
6	24	28	55	87	163	60	154	415	81	94	27	9.5
7	27	27	57	84	145	65	276	326	80	66	25	12
8	43	23	54	77	119	104	388	447	73	55	24	13
9	38	22	48	71	106	128	301	395	69	48	22	15
10	41	23	46	70	104	95	394	292	67	47	20	14
11	33	23	46	70	99	84	313	241	65	45	22	13
12	29	29	45	67	93	76	252	211	62	42	30	11
13	27	34	37	65	84	70	238	191	61	39	26	10
14	23	30	41	60	81	69	607	178	57	37	22	12
15	24	26	42	54	81	66	921	191	54	36	21	11
16	27	26	120	54	82	65	500	188	56	34	20	12
17	28	23	134	54	85	63	354	171	52	32	19	12
18	29	24	96	52	84	66	278	154	49	37	20	13
19	29	29	88	49	83	68	231	149	57	34	20	11
20	28	33	94	45	83	62	197	150	70	34	20	11
21	26	53	87	45	79	257	174	135	65	32	19	14
22	26	66	75	87	77	281	156	183	55	29	16	16
23	26	55	69	191	77	186	143	331	51	27	15	19
24	26	79	68	198	74	146	135	219	48	53	15	17
25	26	58	75	164	70	125	124	173	43	43	15	14
26	28	48	164	135	67	106	114	163	41	39	15	13
27	29	50	415	115	65	99	112	139	42	36	15	13
28	30	73	815	102	65	110	124	128	52	32	15	15
29	27	130	487	94	---	102	128	131	50	30	32	15
30	27	95	284	94	---	95	176	125	71	28	19	14
31	27	---	205	106	---	92	---	112	---	26	15	---
TOTAL	853	1266	4042	2912	3429	3053	7725	10816	1947	1655	657	375.6
MEAN	27.5	42.2	130	93.9	122	98.5	258	349	64.9	53.4	21.2	12.5
MAX	43	130	815	198	513	281	921	1380	104	173	32	19
MIN	20	22	37	45	65	60	87	112	41	26	15	8.2
CFSM	.14	.22	.67	.49	.63	.51	1.34	1.81	.34	.28	.11	.07
IN.	.16	.24	.78	.56	.66	.59	1.49	2.08	.38	.32	.13	.07

CAL YR 1982 TOTAL 81102.0 MEAN 222 MAX 2760 MIN 17 CFSM 1.15 IN 15.63
WTR YR 1983 TOTAL 38730.6 MEAN 106 MAX 1380 MIN 8.2 CFSM .55 IN 7.47

03265000 STILLWATER RIVER AT PLEASANT HILL, OH

LOCATION.--Lat 40°03'28", long 84°21'22", in SW 1/4 sec. 18, T.7 N., R.5 E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on Laurer Road, 0.8 mi (1.3 km) northwest of Pleasant Hill, 2 mi (3 km) downstream from Painter Creek, 2 mi (3 km) upstream from Canyon Run, and at mile 28.35 (45.62 km).

DRAINAGE AREA.--503 mi^2 (1,303 km^2).

PERIOD OF RECORD.--October 1916 to September 1928, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site March 1922 to December 1963 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 523: 1917. WSP 1305: 1920(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 846.73 ft (258.083 m) National Geodetic Vertical Datum of 1912. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Sediment data collected at this site 1963 to 1975.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--61 years, 443 ft^3/s (12.55 m^3/s), 11.96 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s (748 m^3/s) Jan. 14, 1937, from rating curve extended above 14,500 ft^3/s (411 m^3/s) on basis of velocity-area study; maximum gage height, 18.46 ft (5.627 m) June 29, 1980; minimum discharge observed, 4 ft^3/s (0.11 m^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 (5.33 m). Discharge, at site about 3 mi (5 km) upstream, 51,400 ft^3/s (1,460 m^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.--Maximum discharge, 5.120 ft^3/s (145 m^3/s); gage height, 8.80 ft (2.682 m), above base of 5,000 ft^3/s (142 m^3/s); minimum discharge 12 ft^3/s (0.34 m^3/s) Sept. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	52	145	338	230	128	215	3560	193	856	28	18
2	33	55	112	277	620	128	402	4400	177	450	28	16
3	29	89	99	234	1650	125	1280	4270	171	262	28	13
4	27	85	98	203	842	120	805	2900	182	185	29	13
5	27	63	110	181	468	116	540	1530	170	543	30	13
6	29	58	117	170	378	125	474	1010	154	293	33	14
7	35	56	117	164	327	138	1000	779	150	165	30	14
8	53	53	98	151	262	170	1240	1050	142	125	27	15
9	66	51	85	135	233	515	778	918	128	106	25	17
10	71	52	79	134	218	284	1200	661	123	99	24	19
11	60	53	70	140	210	218	889	532	118	90	24	17
12	49	63	62	131	196	184	741	452	110	78	31	15
13	45	75	55	119	175	166	620	399	108	72	34	14
14	41	90	52	110	169	159	2040	365	103	65	28	13
15	38	68	60	96	175	152	3030	387	101	62	25	15
16	39	61	364	82	179	138	1320	366	103	54	23	15
17	43	60	413	68	203	133	899	321	97	56	22	15
18	45	59	223	58	207	141	705	282	90	71	23	15
19	47	62	176	52	192	152	557	278	225	64	23	15
20	48	73	234	50	185	143	449	281	383	64	23	14
21	42	106	207	80	165	816	385	251	218	58	20	24
22	42	144	155	130	159	948	336	349	147	44	20	21
23	43	138	137	340	162	513	307	638	118	41	19	23
24	43	162	153	700	159	374	288	423	103	82	17	24
25	47	170	173	670	150	309	259	321	92	72	17	22
26	46	125	335	440	136	258	234	305	84	62	18	20
27	55	115	1110	320	128	253	221	270	84	53	19	19
28	56	144	2640	260	125	272	293	237	110	49	20	20
29	53	329	1280	230	---	257	371	241	254	44	30	20
30	50	219	672	220	---	225	425	243	289	37	25	19
31	49	---	440	210	---	217	---	212	---	34	20	---
TOTAL	1384	2930	10071	6493	8303	7877	22303	28231	4527	4336	763	512
MEAN	44.6	97.7	325	209	297	254	743	911	151	140	24.6	17.1
MAX	71	329	2640	700	1650	948	3030	4400	383	856	34	24
MIN	27	51	52	50	125	116	215	212	84	34	17	13
CFSM	.09	.19	.65	.42	.59	.51	1.48	1.81	.30	.28	.05	.03
IN.	.10	.22	.74	.48	.61	.58	1.65	2.09	.33	.32	.06	.04

CAL YR 1982 TOTAL 215131 MEAN 589 MAX 9990 MIN 18 CFSM 1.17 IN 15.91
WTR YR 1983 TOTAL 97730 MEAN 268 MAX 4400 MIN 13 CFSM .53 IN 7.23

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 (305 m) downstream from Englewood Dam, 1 mi (1.6 km) southeast of Englewood, and at mile 8.9 (14.3 km).

DRAINAGE AREA.--650 mi^2 (1,684 km^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 (213.351 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for the winter period, which are fair. Flood flow regulated by Englewood retarding basin.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--58 years, 579 ft^3/s (16.40 m^3/s), 12.10 in/yr (307 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft^3/s (283 m^3/s) June 15, 1958, gage height, 80.88 ft (24.652 m); minimum, 3.7 ft^3/s (0.10 m^3/s) Sept. 30, Oct. 1, 1944, gage height, 71.36 ft (21.751 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 85,400 ft^3/s (2,420 m^3/s) at site 1 mi (1.6 km) downstream, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,300 ft^3/s (150 m^3/s) May 3. gage height, 77.91 ft (23.747 m); minimum, 19 (ft^3/s (0.54 m^3/s) Sept. 17, gage height, 71.68 ft (21.848 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	54	251	520	280	180	266	3320	239	965	64	34
2	49	53	199	430	510	180	309	4550	222	657	56	30
3	46	62	171	370	2050	176	1580	5120	214	380	53	28
4	45	74	158	320	1640	173	1390	5200	222	261	59	25
5	42	75	160	281	782	169	835	4360	214	417	61	23
6	41	61	168	262	531	191	640	2380	202	435	57	24
7	47	54	163	254	442	210	810	1420	191	252	54	26
8	53	53	157	238	363	230	1990	1640	184	195	54	26
9	59	52	141	221	309	510	1550	1620	176	166	51	24
10	77	50	130	216	289	429	1790	1100	166	153	45	24
11	73	50	120	218	275	304	1550	820	159	144	51	24
12	65	65	120	200	261	256	1160	632	153	135	50	29
13	59	66	110	190	243	235	948	524	150	123	51	26
14	53	66	110	170	230	222	1720	468	144	112	53	23
15	50	74	110	150	235	214	3770	510	140	105	53	21
16	47	64	250	140	235	198	2760	468	163	95	50	22
17	45	57	510	130	243	191	1510	398	184	91	47	22
18	46	55	300	120	256	198	1100	341	169	115	45	23
19	47	53	240	110	248	206	851	325	176	107	45	24
20	50	61	310	110	239	206	640	325	363	95	41	25
21	51	134	270	120	226	592	503	299	309	100	39	38
22	48	167	230	180	214	1640	429	357	210	88	40	33
23	46	177	200	654	214	835	386	674	173	74	38	33
24	45	177	180	1040	218	503	363	592	153	144	35	31
25	46	181	220	870	210	392	330	386	135	126	33	33
26	46	166	380	577	195	330	299	346	123	110	31	36
27	46	149	900	418	184	304	280	314	118	93	30	33
28	49	195	3100	341	180	325	284	280	132	82	32	35
29	51	308	2100	306	---	309	392	275	156	78	39	32
30	51	382	1100	290	---	280	468	284	346	70	37	30
31	52	---	660	280	---	266	---	261	---	64	42	---
TOTAL	1583	3235	13218	9726	11302	10454	30903	39589	5686	6032	1436	837
MEAN	51.1	108	426	314	404	337	1030	1277	190	195	46.3	27.9
MAX	77	382	3100	1040	2050	1640	3770	5200	363	965	64	38
MIN	41	50	110	110	180	169	266	261	118	64	30	21
CFSM	.08	.17	.66	.48	.62	.52	1.59	1.97	.29	.30	.07	.04
IN.	.09	.19	.76	.56	.65	.60	1.77	2.27	.33	.35	.08	.05

CAL YR 1982 TOTAL 278199 MEAN 762 MAX 6660 MIN 38 CFSM 1.17 IN 15.92
WTR YR 1983 TOTAL 134001 MEAN 367 MAX 5200 MIN 21 CFSM .57 IN 7.67

03267000 MAD RIVER NEAR URBANA, OH

LOCATION.--Lat 40°06'27", long 83°47'57", on west line of sec. 35, T.5 E., R.11 N., Champaign County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on U.S. Highway 36, 1.8 mi (2.9 km) upstream from Dugan Run, 1.8 mi (2.9 km) downstream from Muddy Creek, 2.5 mi (4.0 km) west of Urbana, and at mile 39.7 (63.9 km).

DRAINAGE AREA.--162 mi^2 (420 km^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 985.22 ft (300.295 m) 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 (183 m) downstream at datum 0.36 ft (0.110 m) lower. Aug. 1 to Sept. 25, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--50 years, 145 ft^3/s (4.106 m^3/s), 12.16 in/yr (309 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s (227 m^3/s) Jan. 22, 1959, gage height, 12.05 ft (3.673 m), from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of estimate of peak flow based on contracted-opening measurement at site 3 mi (5 km) downstream with drainage area of 235 mi^2 (609 km^2) adjusted to gage site by 0.8 power of the drainage-area ratio; minimum, 2.1 ft^3/s (0.059 m^3/s) Jan. 21, 1963, gage height, 2.33 ft (0.710 m), result of freezeup; minimum daily, 24 ft^3/s (0.68 m^3/s) Feb. 2, 3, 1945, Jan. 13, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharges 1,660 ft^3/s (47.0 m^3/s) May 2, gage height 5.83 ft (1.777 m), above base of 1,400 ft^3/s (39.6 m^3/s); minimum discharge 59 ft^3/s (1.67 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	68	98	171	98	89	84	609	128	328	95	73
2	75	71	90	159	167	87	85	1070	125	245	92	71
3	69	74	84	150	243	87	108	877	123	197	91	69
4	68	71	84	140	154	87	103	670	123	181	92	71
5	69	70	82	137	129	86	98	450	121	226	93	71
6	70	69	84	134	128	84	97	347	118	181	89	67
7	73	69	84	128	124	84	106	304	118	161	85	67
8	73	69	80	120	116	84	117	343	118	151	82	67
9	78	69	80	115	113	84	160	295	118	145	82	65
10	86	70	78	115	111	84	293	253	120	144	82	63
11	73	71	78	114	108	84	190	225	120	136	82	63
12	69	74	71	110	104	83	159	214	115	131	82	61
13	69	75	69	105	102	85	146	201	114	126	78	61
14	68	73	69	104	102	84	304	198	112	125	77	61
15	65	71	75	103	102	82	368	201	108	124	75	61
16	65	71	239	95	102	82	216	190	109	123	74	63
17	63	70	129	97	102	82	184	173	107	122	73	65
18	65	70	102	91	102	82	166	169	106	131	72	63
19	66	69	110	93	102	82	154	164	630	145	74	63
20	65	71	141	90	100	82	144	157	410	129	74	63
21	63	124	107	89	99	95	138	153	258	123	70	78
22	63	109	94	92	97	100	131	174	213	127	75	71
23	63	108	92	106	96	90	127	197	187	125	72	65
24	63	110	92	118	94	88	124	161	170	118	67	63
25	62	110	89	110	92	87	119	151	156	113	65	63
26	61	100	112	104	90	85	117	158	147	109	71	63
27	62	95	485	99	89	85	115	147	142	108	72	63
28	63	140	561	96	89	89	117	143	155	107	74	63
29	63	120	287	94	---	88	118	142	308	100	75	63
30	63	110	216	96	---	85	143	151	245	97	71	59
31	64	---	186	101	---	84	---	138	---	95	71	---
TOTAL	2096	2541	4248	3476	3155	2660	4531	8825	5124	4473	2427	1959
MEAN	67.6	84.7	137	112	113	85.8	151	285	171	144	78.3	65.3
MAX	86	140	561	171	243	100	368	1070	630	328	95	78
MIN	61	68	69	89	89	82	84	138	106	95	65	59
CFSM	.42	.52	.85	.69	.70	.53	.93	1.76	1.06	.89	.48	.40
IN.	.48	.58	.98	.80	.72	.61	1.04	2.03	1.18	1.03	.56	.45

CAL YR 1982 TOTAL 67455 MEAN 185 MAX 1740 MIN 61 CFSM 1.14 IN 15.49
WTR YR 1983 TOTAL 45515 MEAN 125 MAX 1070 MIN 59 CFSM .77 IN 10.45

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 (1.3 km) southeast of Eagle City, 1.1 mi (1.8 km) downstream from Moore Run, 3.1 mi (5.0 km) upstream from Buck Creek, 3.3 mi (5.3 km) south of Tremont City, and at mile 29.5 (47.5 km).

DRAINAGE AREA.--310 mi² (803 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 904.66 ft (275.740 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair prior to Dec. 26, good thereafter. 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 22.7 ft³/s (0.64 m³/s) in 1983, is returned as sewage 1.4 mi (2.3 km) upstream from gaging station near Springfield (station 03269500). Water-quality data collected at this site 1966 to 1977.

AVERAGE DISCHARGE.--18 years, 310 ft³/s (8.779 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,700 ft³/s (275 m³/s) June 26, 1971, gage height, 16.00 ft (4.877 m), from rating curve extended above 3,060 ft³/s (86.7 m³/s); minimum daily, 60 ft³/s (1.70 m³/s) Jan. 27, 28, 1977 (result of freezeup).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.8 ft (6.04 m), from data furnished by Miami Conservancy District. Flood of Jan. 21, 1959 reached a stage of 15.7 ft (4.79 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2500 ft /s (70.8 m /s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 1	0030	3230	91.5	10.30	3.139	May 3	1700	2740	77.6	9.70	2.957
May 2	0900	*4110	116	*11.31	3.447						

Minimum daily discharge, 88 ft³/s (2.49 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	123	192	319	240	165	149	1830	252	523	144	113
2	152	123	173	295	450	160	169	2570	241	358	139	109
3	145	136	163	274	540	158	198	2000	247	290	136	106
4	146	125	158	254	350	155	186	1330	250	278	140	105
5	153	122	163	246	277	151	174	825	230	324	139	105
6	148	121	165	240	262	155	174	634	226	267	133	105
7	164	120	160	235	251	158	196	551	220	240	131	105
8	151	121	154	221	232	160	227	708	211	226	129	103
9	172	122	152	213	224	160	429	559	204	216	126	99
10	172	125	151	219	221	158	642	477	199	215	124	91
11	142	121	151	216	213	160	408	429	194	206	132	88
12	134	132	141	206	203	153	335	398	190	200	127	89
13	128	128	136	198	198	151	322	371	188	193	122	89
14	125	123	137	196	198	151	713	361	184	188	120	89
15	123	122	163	193	198	149	731	433	181	184	120	89
16	120	122	544	176	208	144	437	391	179	179	119	94
17	119	123	282	180	211	144	361	348	176	181	119	91
18	118	122	210	170	203	151	316	322	175	191	118	89
19	119	117	243	170	196	153	286	319	574	198	115	89
20	119	124	295	170	188	149	259	307	504	186	112	91
21	117	218	220	180	183	188	243	289	331	180	108	118
22	117	227	187	270	183	188	232	377	277	184	109	102
23	116	192	178	300	181	167	224	412	251	183	110	98
24	115	194	174	280	176	160	219	325	235	179	108	97
25	117	177	173	250	174	155	208	313	222	169	105	95
26	115	171	231	230	167	151	198	313	211	163	106	97
27	116	174	1280	230	165	155	193	284	205	158	114	97
28	115	231	1140	220	165	162	198	273	228	154	120	96
29	112	294	604	210	---	155	198	288	393	150	118	95
30	110	228	433	240	---	149	426	296	360	147	111	94
31	115	---	361	260	---	149	---	267	---	143	116	---
TOTAL	4068	4578	8914	7061	6457	4864	9051	18600	7538	6653	3770	2928
MEAN	131	153	288	228	231	157	302	600	251	215	122	97.6
MAX	172	294	1280	319	540	188	731	2570	574	523	144	118
MIN	110	117	136	170	165	144	149	267	175	143	105	88

CAL YR 1982 TOTAL 126250 MEAN 346 MAX 4800 MIN 110
WTR YR 1983 TOTAL 84482 MEAN 231 MAX 2570 MIN 88

03268090 CLARENCE J. BROWN RESERVOIR NEAR SPRINGFIELD, OH

LOCATION.--Lat 39°57'01", long 83°44'51", in SE 1/4 sec. 13, R.10, T.5, Clark County, Hydrologic Unit 05080001, in gatehouse of dam on Buck Creek, 1.3 mi (2.1 km) upstream from Beaver Creek, and 4.0 mi (6.4 km) northeast of city hall in Springfield.

DRAINAGE AREA.--82.0 mi^2 (212 km^2).

PERIOD OF RECORD.--April 1974 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by rolled rock-fill dam having an impervious core with sand and gravel shell, and an open-cut spillway. Storage began in January 1974, recorder was installed and records began April 16, 1974. Usable capacity 63,690 acre-ft (78.5 hm^3) between elevations 968.0 ft (295.05 m), lowest outlet, and 1,023.0 ft (311.81 m), crest of spillway. Dead storage below elevation 968.0 ft (295.05 m) 6 acre-ft (7,400 m^3). Figures given herein represent usable contents. Reservoir is used for flood control, low-flow augmentation and recreation. There are no gates on spillway and all regulation is done by gates in conduit through dam.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 42,630 acre-ft (52.6 hm^3) Feb. 28, 1975, elevation, 1,014.60 ft (309.250 m); minimum, 7,160 acre-ft (8.83 hm^3) Oct. 25, 1979, elevation, 991.93 ft (302.340 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,560 acre-ft (47.5 hm^3) May 4,8, elevation, 1,012.76 ft (308.689 m); minimum, 30,840 acre-ft (38.0 hm^3) Jan. 7,8,9, elevation, 1,009.00 ft (307.543 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1011.46	35800	--
Oct. 31	1010.09	32990	-2810
Nov. 30	1009.34	31510	-1480
Dec. 31	1009.30	31430	-80
CAL YR 1982	--	--	+470
Jan. 31	1009.08	31000	-430
Feb. 28	1009.13	31100	+100
Mar. 31	1009.65	32120	+1020
Apr. 30	1011.30	35460	+3340
May 31	1012.08	37100	+1640
June 30	1012.19	37330	+230
July 31	1012.02	36970	-360
Aug. 31	1011.81	36530	-440
Sept. 30	1010.82	34470	-2060
WTR YR 1983	--	--	-1330

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 (46 m) downstream from Rock Run, 300 ft (91 m) downstream from bridge on Lower Valley Pike, 2 mi (3 km) downstream from Buck Creek, 3 mi (5 km) west of Springfield, and at mile 24.1 (38.8 km).

DRAINAGE AREA.--490 mi² (1,269 km²).

PERIOD OF RECORD.--January 1904 to March 1906 (fragmentary), February 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 603: 1924. WSP 823: 1929(M). WSP 1305: 1914(M), 1916-17(M), 1922-23(M), 1925(M). WSP 1625: 1924(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 881.42 ft (268.657 m) National Geodetic Vertical Datum of 1929. Jan. 1, 1904 to Mar. 31, 1906, nonrecording gage at site 0.3 mi (0.5 km) downstream at different datum. Feb. 1, 1914, to Feb. 29, 1924, nonrecording gage at site 1.8 mi (2.9 km) upstream at datum 6.39 ft (1.948 m) higher. Mar.1, 1924, to July 31, 1925, nonrecording gage at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good. Some regulation by C.J. Brown Reservoir, 8.3 mi (13.4 km) upstream on Buck Creek, since 1972.Occasional low-flow regulation by powerplant 2.3 mi (3.7 km) upstream; daily flows are not affected appreciably. Water-quality data collected at this site 1965 to 1973.

COOPERATION.--Gage height charts, tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--70 years, (1904-05, 1914-83), 491 ft³/s (13.91 m³/s), 13.61 in/yr (346 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,500 ft³/s (864 m³/s) Jan. 21, 1959, gage height, 15.76 ft (4,804 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of slope-area and contracted opening measurements of peak flow; minimum daily discharge, 30 ft³/s (0.85 m³/s) Sept. 15, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 16.9 ft (5.15 m), present datum, discharge, 55,400 ft³/s (1,570 m³/s) computed by Miami Conservacy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,830 ft³/s (137 m³/s) May 2, gage height, 7.62 ft (2.323 m); minimum daily, 181 ft³/s (5.13 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499	243	387	561	391	260	241	2610	459	845	264	211
2	259	259	375	522	716	256	285	3440	443	550	222	200
3	194	267	354	487	871	253	302	2900	478	470	216	195
4	194	243	334	461	579	250	284	1930	461	496	235	191
5	193	240	327	418	484	246	270	1350	419	509	225	191
6	192	236	312	407	458	264	280	1070	398	444	214	194
7	251	233	287	398	444	266	336	956	388	410	210	203
8	231	233	234	367	420	259	501	1160	371	378	210	205
9	292	227	236	331	408	253	852	937	354	346	205	201
10	312	228	253	346	398	248	1040	945	340	338	201	189
11	283	242	251	354	388	255	651	985	330	327	231	184
12	269	299	228	337	363	244	534	691	323	307	201	185
13	265	237	225	309	337	240	529	652	319	280	190	181
14	263	233	226	304	321	242	1010	649	310	271	187	184
15	261	231	325	301	320	237	1110	884	301	265	190	191
16	257	231	670	284	332	232	664	830	293	256	189	212
17	254	230	510	291	343	232	554	659	288	295	193	191
18	258	221	426	282	337	249	493	540	284	290	212	185
19	257	220	534	279	330	245	452	534	766	283	211	186
20	264	251	582	279	318	252	420	511	684	277	204	186
21	256	475	479	290	313	301	393	510	475	289	204	294
22	240	479	447	436	311	283	378	719	428	279	204	201
23	215	392	438	474	309	258	366	681	412	270	206	196
24	230	383	430	451	298	250	355	559	389	270	211	192
25	264	364	452	401	276	244	343	547	364	268	209	186
26	264	374	502	374	263	237	329	532	351	264	209	191
27	263	363	1820	372	259	246	320	497	354	253	230	192
28	262	556	1700	360	261	253	331	482	400	227	275	191
29	263	503	982	346	---	244	321	478	538	226	228	191
30	255	430	715	405	---	237	713	480	643	220	225	198
31	236	---	600	421	---	236	---	480	---	215	226	---
TOTAL	7996	9123	15641	11648	10848	7772	14657	30198	12363	10418	6637	5897
MEAN	258	304	505	376	387	251	489	974	412	336	214	197
MAX	499	556	1820	561	871	301	1110	3440	766	845	275	294
MIN	192	220	225	279	259	232	241	478	284	215	187	181
CFSM	.53	.62	1.03	.77	.79	.51	1.00	1.99	.84	.69	.44	.40
IN.	.61	.69	1.19	.88	.82	.59	1.11	2.29	.94	.79	.50	.45

CAL YR 1982 TOTAL 215562 MEAN 591 MAX 8200 MIN 186 CFSM 1.21 IN 16.37
WTR YR 1983 TOTAL 143198 MEAN 392 MAX 3440 MIN 181 CFSM .80 IN 10.87

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 (91 m) upstream from Huffman Dam, 2.3 mi (3.7 km) downstream from Mud Run, 6.2 mi (10.0 km) northeast of Dayton and at mile 6.1 (9.8 km). Water-quality sampling site was on left bank 900 ft (274 m) downstream.

DRAINAGE AREA.--635 mi² (1,645 km²).

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

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 (236.848 m) National Geodetic Vertical Datum of 1929. Jan. 21, 1959 to Dec. 14, 1967, at site 900 ft (274 m) downstream, at datum 77.01 ft (23.473 m) lower. See WSP 1725 for history of changes prior to Jan. 21, 1959. Water-quality data collected at this site 1947-1948, 1962-1963, 1966-1980.

REMARKS.--Records fair. Flood flows affected by backwater from Huffman retarding dam beginning in 1921, some regulation by C.J. Brown Reservoir 26 mi (42.0 km) 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.--69 years, 629 ft³/s (17.81 m³/s), 13.45 in/yr (342 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft³/s (600 m³/s) Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft (26.79 m) Feb. 26, 1929 at site and datum then in use; minimum daily discharge, 94 ft³/s (2.66 m³/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 (4.27 m), original site and datum, discharge 75,700 ft³/s (2,140 m³/s), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,350 ft³/s (152 m³/s) May 2, gage height, 11.55 ft (3.520 m); minimum daily, 200 ft³/s (5.66 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	479	280	490	684	501	348	326	3700	558	1030	333	248
2	462	274	462	631	762	343	365	4480	533	659	305	234
3	246	332	443	583	1120	339	402	4330	553	553	293	229
4	216	282	442	556	766	336	392	3360	587	534	295	226
5	216	274	399	509	602	336	373	1960	526	629	302	222
6	209	272	407	493	568	364	370	1460	497	521	287	220
7	227	266	383	483	546	364	416	1200	485	476	279	229
8	308	262	339	466	512	367	622	1490	471	453	275	231
9	273	259	317	432	496	362	1050	1250	458	422	270	225
10	406	243	317	427	487	351	1500	1070	443	406	266	215
11	328	258	331	436	478	348	983	1200	434	397	291	205
12	308	360	317	429	465	346	774	893	430	389	279	207
13	289	336	302	406	441	336	713	805	426	363	254	207
14	279	262	298	393	427	332	1210	780	420	353	246	200
15	274	254	344	389	423	330	1740	997	415	343	242	201
16	279	246	770	370	423	324	1000	1090	407	338	242	223
17	275	246	664	360	424	320	786	869	400	391	242	221
18	267	246	519	350	427	325	678	707	398	587	247	209
19	261	243	589	340	425	336	612	665	536	412	250	204
20	266	274	709	340	415	333	561	638	931	382	248	202
21	263	598	586	370	405	391	526	610	578	373	237	314
22	258	649	527	647	400	384	501	859	499	373	231	238
23	238	497	505	745	398	357	487	908	482	373	231	222
24	229	493	507	649	392	344	479	717	464	626	229	219
25	260	451	515	558	378	338	462	649	444	427	233	216
26	266	426	613	507	361	331	449	655	430	386	231	216
27	271	446	1870	488	351	334	431	599	428	369	242	216
28	274	705	2690	473	348	347	433	576	447	339	317	216
29	287	676	1370	457	---	338	444	636	576	317	295	216
30	291	551	955	488	---	330	644	673	674	310	245	220
31	274	---	762	533	---	328	---	588	---	301	249	---
TOTAL	8779	10961	19742	14992	13741	10662	19729	40414	14930	13832	8186	6652
MEAN	283	365	637	484	491	344	658	1304	498	446	264	222
MAX	479	705	2690	745	1120	391	1740	4480	931	1030	333	314
MIN	209	243	298	340	348	320	326	576	398	301	229	200
CFSM	.45	.58	1.00	.76	.77	.54	1.04	2.05	.78	.70	.42	.35
IN.	.51	.64	1.16	.88	.80	.62	1.16	2.37	.87	.81	.48	.39

CAL YR 1982 TOTAL 280473 MEAN 768 MAX 8420 MIN 209 CFSM 1.21 IN 16.43
WTR YR 1983 TOTAL 182620 MEAN 500 MAX 4480 MIN 200 CFSM .79 IN 10.70

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 (305 m) downstream from Main Street Bridge in Dayton, 0.7 mi (1.1 km) upstream from Wolf Creek, 0.8 mi (1.3 km) downstream from Mad River, and at mile 80.0 (128.7 km).

DRAINAGE AREA.--2,511 mi^2 (6,503 km^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 (213.360 m) National Geodetic Vertical Datum adjustment of 1912 as requested by cooperator (699.71 ft (213.272 m) adjustment of 1929). Prior to Oct. 1, 1921, nonrecording gage at Main Street Bridge at datum 23.73 ft (7.233 m) higher. Oct. 1, 1921, to July 24, 1931, nonrecording gage at Main Street Bridge at datum 21.00 ft (6.401 m) higher.

REMARKS.--Records good except those below 250 ft^3/s (7.08 m^3/s), which are fair. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi (10.5 km) upstream, on Stillwater River 10.5 mi (16.9 km) upstream, on Great Miami River 11.5 mi (18.5 km) upstream, and on Loramie Creek 40 mi (64 km) upstream. Also see REMARKS for stations 03261500, 03261950 and 03269500. Water is diverted 6 mi (10 km) upstream from station for use in Dayton; most of return flow from diversions bypasses station in Dayton sewer systems. Sediment data collected at this site 1951 to 1953.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--54 years (1929-83). 2,151 ft^3/s (60.92 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,900 ft^3/s (1,720 m^3/s) Jan. 22, 1959, gage height, 35.45 ft (10.805 m) in gage well, from graph based on gage readings; 36.0 ft (10.97 m), from outside floodmarks; minimum daily, 109 ft^3/s (3.09 m^3/s) Aug. 8, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of 29.0 ft (8.84 m), site and datum then in use, discharge, 250,000 ft^3/s (7,080 m^3/s), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,600 ft^3/s (583 m^3/s) May 3, gage height 30.23 ft (9.214 m); minimum daily, 213 ft^3/s (6.03 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	539	406	1820	2760	1610	807	1030	12100	1380	4120	518	330
2	614	420	1470	2300	2240	807	1220	17200	1220	3580	518	323
3	398	464	1290	1970	5460	795	2900	20000	1300	2580	469	292
4	338	426	1180	1760	4970	762	3810	18700	1390	1970	417	273
5	332	402	1120	1530	3130	754	2700	14000	1250	2100	496	264
6	319	391	1110	1440	2410	987	2180	8840	1190	2210	456	271
7	423	360	1030	1390	2160	1010	2140	5970	1120	1680	427	292
8	493	346	885	1340	1910	1180	4230	5760	1060	1300	381	265
9	445	346	729	1270	1680	1580	4520	5480	980	1090	419	277
10	862	346	693	1320	1610	1850	6240	4240	928	1010	399	270
11	558	386	711	1340	1580	1420	5700	3580	872	927	513	251
12	511	605	665	1320	1480	1210	4300	2910	818	886	450	258
13	489	603	619	1270	1300	1090	3690	2540	788	826	369	256
14	442	469	586	1210	1120	1030	5660	2340	781	768	346	225
15	415	435	826	1180	1090	982	11600	2700	757	730	323	225
16	394	415	1990	1120	1090	910	8730	2710	734	693	318	247
17	376	438	3350	1070	1100	868	5690	2410	859	749	318	247
18	381	406	2670	1010	1150	867	4260	2020	950	1160	325	218
19	378	485	2050	906	1160	902	3350	1840	944	906	332	213
20	416	588	2020	927	1130	924	2720	1770	3040	826	322	224
21	389	1290	1990	1140	1070	1370	2200	1640	2250	826	291	467
22	366	1630	1660	2180	1040	3220	1930	2160	1540	749	290	348
23	353	1410	1460	2610	1000	2400	1730	2460	1190	675	322	275
24	346	1370	1410	2850	989	1700	1580	2400	980	1390	299	255
25	371	1400	1560	2670	965	1400	1590	2020	838	947	290	251
26	391	1290	1890	2130	896	1230	1520	1840	748	846	281	257
27	391	1230	5580	1810	840	1130	1280	1710	887	730	230	251
28	391	2020	11900	1560	812	1190	1190	1550	1080	621	473	250
29	391	2240	9580	1410	---	1170	1460	1560	1710	586	645	238
30	391	2380	5500	1410	---	1100	2480	1640	3010	551	346	238
31	391	---	3350	1580	---	1040	---	1510	---	518	351	---
TOTAL	13294	24997	72694	49783	46992	37685	103630	157600	36594	38550	11934	8051
MEAN	429	833	2345	1606	1678	1216	3454	5084	1220	1244	385	268
MAX	862	2380	11900	2850	5460	3220	11600	20000	3040	4120	645	467
MIN	319	346	586	906	812	754	1030	1510	734	518	230	213

CAL YR 1982 TOTAL 1115429 MEAN 3056 MAX 23000 MIN 319
WTR YR 1983 TOTAL 601804 MEAN 1649 MAX 20000 MIN 213

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 (107 m) downstream from Union Road Bridge, 700 ft (213 m) downstream from unnamed right bank tributary, 0.2 mi (0.3 km) south of Trotwood, and 0.3 mi (0.5 km upstream from North Branch.

DRAINAGE AREA.--22.7 mi² (58.8 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 826.28 ft (251.850 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except May 13 to June 27 and Sept. 6-30, which are fair.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--21 years, 22.6 ft³/s (0.640 m³/s), 13.52 in/yr (343 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,970 ft³/s (84.1 m³/s) May 24, 1968, gage height, 6.47 ft (1.972 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); 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 ft³/s (110 m³/s), gage height, 8.0 ft (2.44 m), computed by Miami Conservancy District on basis of estimate of peak flow based on contracted-opening measurement at site 1.1 mi (1.8 km) downstream with drainage area of 48.2 mi² (125 km²), adjusted to gage site by 0.8 power of the drainage-area ratio. Flood in March 1913 reached a stage of 9.4 ft (2.87 m), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximums (*).

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Dec. 27	1030	*1290	36.5	*4.07	1.241	May 2	0630	1100	31.2	3.76	1.146
Apr. 30	2315	921	26.1	3.47	1.058	May 3	0745	813	23.0	3.28	1.000

Minimum discharge, 0.16 ft³/s (0.005 m³/s) Aug. 26, 30, 31, Sept. 6, (May have been lower during the period of no gage-height record Sept. 6-30).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	9.2	20	24	22	8.3	12	373	8.6	12	.72	.36
2	.43	8.3	16	20	101	8.3	30	456	7.8	5.9	.56	.36
3	.43	9.7	14	16	58	7.8	51	482	9.0	5.9	.72	.32
4	.43	6.5	12	14	30	7.1	34	168	8.2	21	.90	.35
5	.56	5.4	13	12	23	7.1	25	78	7.6	15	1.1	.30
6	.72	5.4	13	12	17	13	25	45	7.0	6.5	.72	.28
7	3.1	5.4	11	12	14	16	35	59	6.6	4.8	.43	.30
8	7.8	5.9	9.7	10	13	24	125	59	6.2	4.4	.32	.31
9	3.9	5.4	9.2	10	12	22	197	35	5.8	3.9	.32	.29
10	5.4	5.4	6.6	11	12	16	106	26	5.4	3.9	.32	.30
11	3.5	6.5	6.4	9.4	11	13	56	22	5.0	3.5	2.3	.31
12	3.1	12	6.0	8.4	11	12	38	20	4.8	3.1	1.4	.32
13	3.1	8.3	5.8	7.6	11	11	112	19	4.6	2.7	.56	.35
14	3.9	4.8	5.6	7.0	12	11	226	16	4.4	2.3	.43	.32
15	4.4	3.9	30	6.8	11	10	90	19	4.2	2.0	.32	.31
16	4.4	3.5	132	6.6	11	9.2	47	18	5.4	1.6	.32	.31
17	4.8	3.5	44	6.6	11	9.2	35	16	4.2	2.0	.43	.31
18	4.8	3.5	29	6.4	11	11	27	14	5.2	4.8	.56	.31
19	5.4	3.5	32	6.4	11	11	22	13	4.8	7.8	.72	.31
20	5.9	5.9	29	6.2	9.7	11	19	12	4.2	2.0	.56	.30
21	7.8	54	20	15	9.7	75	16	11	3.7	1.1	.43	.56
22	5.9	62	17	125	9.7	32	14	80	3.3	.90	.32	.66
23	5.9	41	19	106	10	21	14	40	2.9	.90	.40	.54
24	6.5	39	21	68	9.7	18	14	25	2.7	1.1	.67	.45
25	6.5	19	47	45	9.2	15	12	18	2.5	1.1	.35	.40
26	6.5	16	76	30	8.7	12	11	15	2.3	1.4	.24	.38
27	6.5	21	469	24	8.3	15	11	12	1.6	.90	.25	.38
28	6.5	86	250	21	8.3	15	12	11	2.3	.72	.52	.37
29	7.8	56	103	19	---	12	11	10	3.5	.72	.24	.37
30	7.8	29	50	29	---	11	143	11	12	.72	.20	.36
31	8.3	---	31	26	---	11	---	9.8	---	.72	.26	---
TOTAL	142.39	545.0	1547.3	720.4	485.3	475.0	1570	2192.8	155.8	125.38	17.59	10.79
MEAN	4.59	18.2	49.9	23.2	17.3	15.3	52.3	70.7	5.19	4.04	.57	.36
MAX	8.3	86	469	125	101	75	226	482	12	21	2.3	.66
MIN	.32	3.5	5.6	6.2	8.3	7.1	11	9.8	1.6	.72	.20	.28
CFSM	.20	.80	2.20	1.02	.76	.67	2.30	3.12	.23	.18	.03	.02
IN.	.23	.89	2.54	1.18	.80	.78	2.57	3.59	.26	.21	.03	.02

CAL YR 1982 TOTAL 12355.68 MEAN 33.9 MAX 944 MIN .32 CFSM 1.49 IN 20.25
WTR YR 1983 TOTAL 7987.75 MEAN 21.9 MAX 482 MIN .20 CFSM .97 IN 13.09

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 (183 m) downstream from bridge on State Highway 725 at Miamisburg, 0.3 mi (0.5 km) downstream from Bear Creek, 3.2 mi (5.1 km) upstream from Crains Run, and at mile 66.4 (106.8 km).

DRAINAGE AREA.--2,711 mi² (7,021 km²).

PERIOD OF RECORD.--March 1916 to September 1920 (published as Miami River at Franklin 1916-17), August 1924 to September 1935 (published as Miami River near Miamisburg), October 1952 to current year (published as Miami River at Miamisburg 1952-62). Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: 1929(M). WSP 1385: 1926. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 678.60 ft (206.837 m) National Geodetic Vertical Datum of 1929. Mar. 16, 1916 to Sept. 30, 1920, nonrecording gage at site 6.7 mi (10.8 km) downstream at different datum. Aug. 29 to Sept. 16, 1924, nonrecording gage, and Sept. 17, 1924 to Sept. 30, 1935, water-stage recorder, at site 2.2 mi (3.5 km) downstream at datum 677.06 ft (206.368 m) National Geodetic Vertical Datum.

REMARKS.--Records good. Diurnal fluctuation caused by powerplant 0.4 mi (0.6 km) upstream from station. Flood flow regulated by retarding dams beginning in 1920 on Mad River 19 mi (31 km) upstream, on Stillwater River 23 mi (37 km) upstream, on Great Miami River 23 mi (37 km) upstream and on Loramie Creek 52 mi (84 km) 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.--46 years, 2,424 ft³/s (68.65 m³/s), 12.14 in/yr (308 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,800 ft³/s (1,750 m³/s) Jan. 21, 22, 1959, gage height, 20.65 ft (6.294 m), in gage well, from graph based on gage readings; 21.3 ft (6.49 m), from outside flood-marks; minimum daily, 148 ft³/s (4.19 m³/s) Sept. 7, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 26, 1913 reached a discharge of 257,000 ft³/s (7,280 m³/s), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,700 ft³/s (700 m³/s) May 3, gage height, 12.72 ft (3.877 m); minimum daily, 346 ft³/s (9.80 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	612	535	1990	2980	1850	949	1230	14700	1750	3750	644	456
2	745	535	1650	2530	2600	949	1520	19200	1600	3410	655	460
3	560	655	1490	2220	4930	949	2590	22800	1650	2590	594	444
4	485	552	1320	2020	4890	902	3760	20200	1760	2200	606	415
5	477	527	1270	1830	3230	883	2660	14700	1560	2170	623	412
6	460	493	1270	1690	2530	1290	2390	9200	1460	2280	566	412
7	502	485	1180	1610	2310	1330	2380	6280	1440	1810	551	435
8	673	485	1030	1520	2090	1470	4870	6130	1390	1440	492	435
9	586	485	868	1480	1910	1670	5480	5700	1280	1210	542	436
10	1040	485	812	1540	1810	2020	6170	4650	1210	1110	560	423
11	700	560	834	1540	1760	1660	5790	3970	1150	1050	802	404
12	612	823	781	1480	1690	1410	4390	3360	1060	967	631	433
13	620	745	772	1440	1520	1290	3910	2970	945	863	531	435
14	569	595	763	1410	1350	1220	5790	2800	949	806	488	413
15	543	560	1030	1330	1310	1180	10900	3260	932	767	468	408
16	518	535	2510	1280	1310	1100	8820	3290	942	742	500	454
17	502	560	3540	1220	1320	1040	5670	2900	1070	793	491	426
18	493	535	2880	1140	1360	1060	4260	2530	1380	1260	476	346
19	485	595	2360	1020	1360	1110	3440	2330	1190	1060	480	399
20	595	727	2220	1040	1310	1090	2920	2240	3060	861	509	419
21	569	1520	2170	1290	1260	1720	2430	2090	2590	837	464	690
22	535	2200	1890	3080	1220	2940	2180	2790	1870	760	465	557
23	518	1700	1690	3230	1180	2620	1970	2900	1550	755	499	459
24	493	1650	1650	3180	1170	1970	1830	2780	1310	1350	477	428
25	535	1520	1870	2880	1120	1670	1770	2440	1130	1080	460	417
26	560	1450	2420	2390	1040	1480	1770	2260	1020	912	450	434
27	560	1360	7130	2050	972	1390	1500	2080	1210	794	421	447
28	552	2310	12100	1810	949	1440	1420	1950	1470	716	663	442
29	510	2490	9760	1650	---	1420	1580	2060	1840	637	805	434
30	518	2480	5760	1720	---	1320	3220	2060	3120	653	479	425
31	510	---	3840	1840	---	1250	---	1900	---	611	461	---
TOTAL	17637	30152	80850	57440	51351	43792	108610	178520	44888	40244	16853	13198
MEAN	569	1005	2608	1853	1834	1413	3620	5759	1496	1298	544	440
MAX	1040	2490	12100	3230	4930	2940	10900	22800	3120	3750	805	690
MIN	460	485	763	1020	949	883	1230	1900	932	611	421	346
CFSM	.21	.37	.96	.68	.68	.52	1.34	2.12	.55	.48	.20	.16
IN.	.24	.41	1.11	.79	.70	.60	1.49	2.45	.62	.55	.23	.18

CAL YR 1982 TOTAL 1164251 MEAN 3190 MAX 25900 MIN 458 CFSM 1.18 IN 15.98
WTR YR 1983 TOTAL 683535 MEAN 1873 MAX 22800 MIN 346 CFSM .69 IN 9.38

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 (1.6 km) downstream from Bear Creek, 0.6 mi (1.0 km) downstream from discharge station at Miamisburg, 0.65 mi (1.05 km) downstream from discharge station at Miamisburg, and at mile 65.75 (105.79 km).

DRAINAGE AREA.--2,713 mi^2 (7.027 km^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, 1,270 micromhos Feb. 22, 1979; minimum 206 micromhos Feb. 18, 1982.
pH: Maximum, 9.1 units July 7, 1979, July 13-15, 23, 1983; minimum, 7.0 units July 30, Aug. 30, 1979.
WATER TEMPERATURES: Maximum, 33.0°C July 20, 22, 1978; minimum, 0.0°C Jan. 3, 4, 7-9, 15, Feb. 25, 26, 1979, Mar. 1, 2, 1980, Jan. 12, 18, 1982.
DISSOLVED OXYGEN: Maximum, >20.0 mg/L July 12, 1978, Aug. 15, 16, 1982; minimum, 0.4 mg/L Aug. 27, 1981, Aug. 2, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 1,020 micromhos Nov. 10; minimum, 452 micromhos June 19.
pH: Maximum, 9.1 units July 13-15, 23; minimum, 7.2 units Sept. 22.
WATER TEMPERATURES: Maximum, 30.0°C July 21-23, Aug. 20, 21; minimum, 0.5°C Jan. 18-20.
DISSOLVED OXYGEN. Maximum 17.6 mg/L July 15; minimum, 1.6 mg/L Aug. 31.

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	818	772	801	842	810	828	698	670	684	---	---	---
2	840	758	793	876	780	840	712	684	694	---	---	---
3	792	756	773	870	756	827	728	702	713	---	---	---
4	834	748	789	828	752	798	730	710	720	734	708	724
5	848	802	831	844	806	830	738	710	724	736	720	728
6	846	814	834	---	---	---	750	710	725	768	738	750
7	858	804	833	---	---	---	764	726	746	766	744	755
8	814	728	774	---	---	---	780	740	757	766	748	757
9	806	726	775	---	---	---	792	754	776	770	748	758
10	752	538	639	1020	838	923	804	772	791	790	756	765
11	722	592	677	964	822	858	814	792	806	790	768	779
12	772	722	752	828	692	761	820	780	805	788	754	767
13	788	744	777	708	636	662	818	780	804	764	730	745
14	814	764	797	780	704	756	836	810	822	760	734	746
15	820	784	807	808	762	779	850	700	788	768	738	750
16	846	798	822	860	784	824	718	606	646	780	744	757
17	832	794	814	862	814	836	684	630	660	774	746	753
18	856	808	831	842	808	823	668	626	645	780	758	768
19	---	---	---	864	822	845	636	612	627	802	766	780
20	858	818	842	838	796	820	668	630	648	806	770	785
21	844	806	826	766	534	680	700	660	670	818	730	779
22	850	810	838	618	542	572	724	696	704	914	688	794
23	858	820	841	648	610	630	---	---	---	676	616	633
24	852	818	839	680	616	638	---	---	---	666	652	660
25	846	816	829	698	670	680	---	---	---	684	664	674
26	862	818	845	720	684	696	---	---	---	690	664	675
27	876	832	858	720	686	700	---	---	---	716	684	698
28	872	826	846	720	552	619	---	---	---	726	704	714
29	854	822	838	630	566	594	---	---	---	736	708	720
30	882	816	854	688	634	661	---	---	---	738	720	730
31	864	836	849	---	---	---	---	---	---	750	724	734
MONTH	882	538	807	1020	534	749	850	606	725	914	616	739

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	746	724	735	792	758	776	772	720	753	---	---	---
2	746	680	701	792	758	775	770	708	730	---	---	---
3	682	636	658	800	760	781	708	672	688	---	---	---
4	628	566	588	794	766	781	670	606	636	---	---	---
5	608	580	592	802	768	785	644	606	622	---	---	---
6	652	606	625	790	716	753	674	638	652	---	---	---
7	704	650	681	748	664	696	678	650	664	---	---	---
8	712	688	698	754	700	733	674	536	593	---	---	---
9	732	710	718	746	700	724	580	548	566	---	---	---
10	736	714	723	756	716	728	602	560	582	---	---	---
11	762	712	732	758	746	752	602	584	593	650	636	643
12	774	726	746	760	720	737	618	586	597	676	648	657
13	740	720	729	732	702	717	640	606	624	690	672	680
14	756	718	735	754	718	729	634	560	593	696	678	687
15	762	724	745	764	728	746	578	484	528	676	620	648
16	760	728	743	770	734	753	524	480	495	658	608	635
17	762	730	745	786	742	767	588	528	559	690	656	670
18	764	728	748	780	750	769	632	590	608	708	688	694
19	766	734	749	784	748	768	658	630	641	714	700	705
20	764	724	742	776	730	760	658	652	656	724	696	708
21	768	728	747	758	674	711	---	---	---	720	700	711
22	776	728	754	722	686	699	722	692	709	712	608	656
23	776	732	753	686	642	663	734	708	718	662	628	645
24	766	728	750	690	660	675	---	---	---	694	664	675
25	766	724	746	720	684	694	---	---	---	698	680	689
26	774	726	747	728	700	709	---	---	---	704	682	694
27	770	738	751	732	700	716	---	---	---	700	686	693
28	778	746	757	744	714	728	---	---	---	702	682	690
29	---	---	---	760	730	743	---	---	---	700	608	674
30	---	---	---	764	724	744	---	---	---	692	618	660
31	---	---	---	766	724	744	---	---	---	722	674	693
MONTH	778	566	719	802	642	737	772	480	628	724	608	677

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	726	698	713	550	454	508	786	750	771	828	782	810
2	742	712	725	570	548	558	804	768	789	882	816	855
3	748	696	735	616	570	594	835	776	813	880	840	864
4	724	668	693	624	500	603	814	780	796	882	838	854
5	726	698	707	664	560	607	818	780	800	888	838	858
6	742	708	722	680	630	651	826	782	810	902	854	881
7	756	712	737	684	662	672	836	802	822	894	858	878
8	754	720	741	716	672	685	846	806	820	886	852	873
9	768	728	751	732	708	719	840	802	821	894	852	877
10	774	740	756	744	700	720	834	796	815	896	850	878
11	776	736	758	746	722	731	836	525	740	904	862	883
12	770	736	751	776	732	756	744	712	725	904	782	858
13	770	726	750	786	716	748	830	730	801	894	842	871
14	786	718	752	766	686	725	824	784	802	916	856	882
15	784	742	762	762	692	725	832	794	812	936	890	916
16	786	750	768	774	696	732	870	812	842	932	872	914
17	786	602	744	756	646	721	852	804	834	914	886	902
18	726	620	704	742	550	651	868	818	845	910	868	884
19	726	452	668	658	614	638	888	838	869	920	860	887
20	680	486	594	718	640	686	858	830	842	946	778	888
21	620	504	594	754	722	737	872	834	851	864	712	804
22	692	626	659	754	708	736	870	842	854	796	695	741
23	728	688	699	764	642	734	908	854	884	908	798	874
24	748	712	728	726	618	668	878	844	861	892	844	865
25	758	720	740	652	624	639	890	854	874	908	846	874
26	780	714	748	670	644	655	902	858	885	906	858	873
27	764	628	722	708	664	690	920	860	895	918	864	888
28	648	522	598	756	714	745	904	562	831	910	870	885
29	700	586	636	798	760	778	698	586	628	918	884	901
30	688	474	603	808	764	789	798	604	714	934	896	913
31	---	---	---	792	748	768	854	794	827	---	---	---
MONTH	786	452	709	808	454	689	920	526	815	946	696	871
YEAR	1020	452	744									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.7	7.9	8.1	7.9	7.9	8.1	7.9	8.0	---	---	---
2	8.3	7.6	8.0	7.9	7.8	7.9	8.1	7.9	7.9	---	---	---
3	8.0	7.7	7.9	7.9	7.7	7.8	8.0	7.9	7.9	---	---	---
4	8.0	7.8	7.9	7.8	7.6	7.7	8.0	7.8	7.9	8.1	7.9	7.9
5	7.9	7.7	7.8	7.9	7.8	7.8	7.9	7.8	7.9	8.0	7.7	7.9
6	8.2	7.7	7.9	---	---	---	8.0	7.9	7.9	8.1	8.0	8.0
7	7.9	7.8	7.9	---	---	---	8.0	7.9	7.9	8.2	8.1	8.1
8	8.0	7.7	7.9	---	---	---	8.1	7.8	7.9	8.1	7.9	8.1
9	7.8	7.6	7.7	---	---	---	8.1	7.8	8.0	8.1	8.1	8.1
10	8.0	7.7	7.8	8.0	7.7	7.9	8.2	8.0	8.1	8.2	8.1	8.1
11	8.0	7.7	7.8	7.9	7.8	7.9	8.1	7.9	8.0	8.2	8.0	8.1
12	7.8	7.6	7.7	7.9	7.6	7.8	8.2	7.8	8.1	8.2	8.1	8.2
13	7.9	7.6	7.8	7.9	7.7	7.8	8.2	7.9	8.1	8.2	8.1	8.1
14	7.9	7.7	7.8	8.0	7.9	7.9	8.2	8.0	8.1	8.2	8.1	8.1
15	7.9	7.8	7.8	8.1	7.9	8.0	8.2	7.5	8.0	8.2	8.0	8.2
16	7.9	7.6	7.8	8.0	7.9	8.0	8.1	7.4	7.9	8.3	8.2	8.2
17	8.0	7.8	7.9	8.1	7.9	8.0	8.3	8.0	8.1	8.2	8.2	8.2
18	8.0	7.8	7.9	8.0	7.8	7.9	8.2	7.5	8.0	8.4	8.1	8.3
19	---	---	---	7.9	7.8	7.9	8.2	8.0	8.1	8.4	8.2	8.3
20	7.9	7.8	7.9	7.9	7.8	7.9	8.1	8.0	8.1	8.4	8.2	8.3
21	7.9	7.8	7.8	7.9	7.8	7.9	8.2	8.0	8.1	8.3	8.3	8.3
22	7.9	7.7	7.8	7.8	7.8	7.8	8.3	8.1	8.2	8.3	8.2	8.2
23	8.0	7.7	7.9	7.9	7.7	7.8	---	---	---	8.2	8.2	8.2
24	8.0	7.9	7.9	7.9	7.8	7.9	---	---	---	8.3	8.2	8.2
25	8.1	7.9	8.0	8.1	7.8	8.0	---	---	---	8.3	8.2	8.2
26	8.1	7.9	8.0	8.1	8.0	8.1	---	---	---	8.3	8.2	8.2
27	8.1	7.8	8.0	8.2	8.0	8.1	---	---	---	8.4	8.2	8.3
28	8.0	7.8	7.9	8.1	7.9	8.0	---	---	---	8.4	8.2	8.3
29	8.0	7.8	7.9	8.0	7.9	8.0	---	---	---	8.4	8.2	8.3
30	7.9	7.8	7.9	8.1	8.0	8.0	---	---	---	8.4	8.2	8.3
31	8.0	7.9	7.9	---	---	---	---	---	---	8.4	8.2	8.3
MONTH	8.3	7.6	7.9	8.2	7.6	7.9	8.3	7.4	8.0	8.4	7.7	8.2

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.1	8.3	8.7	8.3	8.4	8.5	8.2	8.4	---	---	---
2	8.3	8.2	8.2	8.7	8.3	8.5	8.5	8.0	8.3	---	---	---
3	8.3	8.2	8.3	8.7	8.2	8.4	8.3	8.1	8.2	---	---	---
4	8.2	8.1	8.2	8.7	8.2	8.4	8.3	8.0	8.2	---	---	---
5	8.2	7.7	8.2	8.6	8.1	8.3	8.1	8.0	8.1	---	---	---
6	8.3	8.2	8.3	8.4	8.0	8.2	8.1	7.9	8.0	---	---	---
7	8.3	8.2	8.3	8.2	7.9	8.0	8.0	7.9	8.0	---	---	---
8	8.4	8.2	8.3	8.0	7.8	7.9	8.0	7.7	8.0	---	---	---
9	8.4	8.3	8.3	8.2	7.8	8.0	8.0	7.9	8.0	---	---	---
10	8.5	8.3	8.4	8.2	8.0	8.1	8.1	7.9	8.0	---	---	---
11	8.5	8.3	8.4	8.3	8.2	8.2	8.1	8.0	8.1	8.2	8.1	8.2
12	8.6	7.8	8.4	8.4	8.0	8.2	8.1	8.0	8.1	8.2	8.1	8.2
13	8.6	8.3	8.4	8.4	8.2	8.3	8.1	8.0	8.1	8.3	8.1	8.2
14	8.7	8.4	8.5	8.5	8.2	8.3	8.1	8.0	8.1	8.3	8.0	8.2
15	8.6	8.3	8.4	8.5	8.1	8.3	8.1	7.9	8.0	8.2	8.1	8.2
16	8.6	8.3	8.5	8.6	8.2	8.4	8.0	7.9	8.0	8.2	8.1	8.2
17	8.6	8.3	8.4	8.5	8.2	8.3	8.1	8.0	8.1	8.4	8.2	8.3
18	8.5	8.2	8.3	8.3	8.1	8.2	8.2	8.1	8.1	8.4	8.2	8.3
19	8.7	7.8	8.4	8.3	8.0	8.1	8.2	8.2	8.2	8.3	8.2	8.3
20	8.8	8.4	8.6	8.3	8.1	8.2	8.3	8.2	8.2	8.4	8.2	8.3
21	8.8	8.4	8.6	8.2	8.1	8.1	---	---	---	8.4	8.2	8.3
22	8.8	8.3	8.5	8.3	8.1	8.2	8.4	8.1	8.3	8.4	8.2	8.3
23	8.7	8.2	8.4	8.3	8.2	8.3	8.3	8.0	8.2	8.4	8.2	8.3
24	8.7	8.3	8.5	8.4	8.2	8.3	---	---	---	8.5	8.3	8.4
25	8.7	8.3	8.5	8.5	8.2	8.3	---	---	---	8.4	8.3	8.4
26	8.7	8.3	8.5	8.5	8.2	8.3	---	---	---	8.4	8.2	8.3
27	8.7	8.4	8.6	8.5	8.3	8.4	---	---	---	8.4	8.1	8.3
28	8.7	8.4	8.6	8.3	8.1	8.3	---	---	---	8.3	8.2	8.3
29	---	---	---	8.5	8.1	8.3	---	---	---	8.4	8.2	8.3
30	---	---	---	8.7	8.2	8.4	---	---	---	8.4	8.1	8.2
31	---	---	---	8.7	8.3	8.5	---	---	---	8.4	8.2	8.3
MONTH	8.8	7.7	8.4	8.7	7.8	8.3	8.5	7.7	8.1	8.5	8.0	8.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	8.3	8.4	8.1	7.8	8.0	8.9	8.1	8.5	8.0	7.6	7.8
2	8.5	8.3	8.4	8.1	7.9	8.0	8.9	8.0	8.5	8.2	7.6	7.9
3	8.3	8.1	8.2	8.1	8.0	8.1	8.9	8.1	8.5	8.5	7.7	8.0
4	8.3	7.9	8.2	8.1	8.1	8.1	8.7	8.1	8.4	8.7	8.1	8.3
5	8.5	8.2	8.3	8.1	7.9	8.0	8.6	8.0	8.3	8.7	8.0	8.3
6	8.5	8.3	8.4	8.2	8.1	8.1	8.8	7.9	8.3	8.2	7.9	8.1
7	8.7	8.2	8.4	8.2	8.1	8.1	8.8	8.1	8.5	8.3	7.9	8.1
8	8.7	8.3	8.5	8.3	8.0	8.1	8.9	8.3	8.6	8.3	7.9	8.1
9	8.7	8.1	8.4	8.4	8.0	8.1	8.8	8.1	8.5	8.2	7.9	8.0
10	8.7	8.1	8.4	8.4	8.0	8.2	8.8	8.2	8.5	8.2	7.9	8.0
11	8.7	8.1	8.4	8.7	8.1	8.4	8.6	8.0	8.2	8.5	7.9	8.1
12	8.7	8.2	8.4	8.8	8.1	8.4	8.2	7.9	8.0	8.6	8.0	8.2
13	8.9	8.2	8.5	9.1	8.3	8.6	8.5	7.9	8.2	8.2	7.9	8.0
14	9.0	8.2	8.6	9.1	8.0	8.6	9.0	8.2	8.6	8.0	7.8	7.9
15	8.7	8.2	8.4	9.1	8.0	8.6	9.0	8.4	8.7	7.8	7.8	7.8
16	8.8	8.0	8.3	9.0	8.0	8.5	8.9	8.1	8.6	7.8	7.7	7.8
17	8.5	8.0	8.2	8.8	8.1	8.4	8.6	8.1	8.4	8.3	7.7	8.0
18	8.8	8.0	8.4	8.2	7.9	8.1	8.8	8.0	8.4	8.6	8.0	8.2
19	8.4	7.9	8.1	8.2	7.8	8.0	8.8	8.1	8.4	8.8	8.1	8.4
20	8.3	7.9	8.1	8.4	7.8	8.0	8.7	8.0	8.4	8.3	8.0	8.1
21	8.2	7.9	8.0	8.7	7.9	8.2	8.7	8.1	8.4	8.2	7.8	8.0
22	8.3	8.0	8.1	9.0	8.0	8.4	8.5	8.0	8.2	8.0	7.2	7.7
23	8.5	8.0	8.2	9.1	8.1	8.5	8.3	8.0	8.1	8.1	7.9	8.0
24	8.5	8.0	8.2	8.7	8.1	8.4	8.4	7.9	8.1	7.9	7.6	7.8
25	8.7	7.9	8.2	8.3	7.9	8.2	8.4	7.9	8.1	8.4	7.9	8.1
26	8.9	8.1	8.5	8.1	7.7	7.9	8.4	7.9	8.1	8.5	7.9	8.1
27	8.7	8.2	8.4	8.2	7.8	8.0	8.4	7.9	8.1	8.3	7.9	8.1
28	8.3	7.8	8.1	8.5	7.8	8.1	8.3	7.9	8.1	8.5	7.9	8.1
29	8.3	8.0	8.1	8.7	7.9	8.3	8.0	7.7	7.8	8.4	7.9	8.1
30	8.2	7.9	8.1	8.8	8.0	8.4	7.9	7.6	7.7	8.4	7.9	8.1
31	---	---	---	8.8	8.1	8.5	7.8	7.7	7.7	---	---	---
MONTH	9.0	7.8	8.3	9.1	7.7	8.2	9.0	7.6	8.3	8.8	7.2	8.0
YEAR	9.1	7.2	8.2									

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	16.0	16.5	25.0	23.0	24.0	27.5	25.5	26.5	26.5	24.5	25.5
2	18.0	16.5	17.0	26.0	24.0	25.0	27.5	24.5	26.0	26.5	24.0	25.5
3	17.5	17.0	17.5	26.0	25.0	25.5	28.0	25.0	26.5	26.5	24.0	25.0
4	19.5	17.0	18.5	25.5	24.5	24.5	27.0	25.5	26.0	27.0	24.5	25.5
5	21.5	18.5	20.0	25.0	23.5	24.0	28.0	25.0	26.5	27.0	25.0	26.0
6	21.0	20.0	20.5	24.0	22.5	23.0	28.5	25.5	27.0	26.5	24.5	25.5
7	21.5	19.0	20.0	23.5	21.5	22.5	29.0	26.0	27.5	27.0	24.5	25.5
8	22.0	19.5	20.5	24.0	21.5	23.0	29.5	26.0	27.5	26.5	23.0	24.5
9	22.5	20.0	21.5	25.0	22.5	23.5	28.5	26.0	27.5	26.5	23.0	24.5
10	23.5	21.0	22.0	26.5	24.0	25.0	27.5	25.0	26.5	27.0	24.0	25.5
11	24.5	22.0	23.0	26.5	24.0	25.5	26.5	24.0	25.5	27.5	24.5	26.0
12	25.0	22.5	24.0	28.0	25.0	26.5	25.5	23.5	24.5	27.0	24.5	25.5
13	26.0	23.0	24.5	28.5	25.5	27.0	25.5	22.5	24.0	25.0	23.0	24.0
14	26.5	24.0	25.0	28.5	25.5	27.5	26.0	22.5	24.5	23.5	21.0	22.0
15	25.0	23.5	24.0	29.0	26.5	28.0	26.5	23.5	25.0	22.0	19.5	20.5
16	25.5	22.5	24.0	29.5	27.0	28.0	27.0	24.0	25.5	21.5	20.0	20.5
17	24.5	23.0	24.0	29.0	26.5	27.5	26.0	25.0	25.5	22.5	19.5	21.0
18	24.5	23.0	23.5	28.0	26.0	27.0	27.0	24.0	25.5	24.0	20.5	22.0
19	24.5	23.0	23.5	29.0	26.0	27.5	28.5	25.0	26.5	25.0	22.0	23.5
20	23.5	22.5	23.0	29.0	26.5	28.0	30.0	26.5	28.0	24.0	22.5	23.5
21	24.0	22.0	23.0	30.0	27.0	28.5	30.0	27.5	28.5	22.5	19.0	21.0
22	25.0	22.5	24.0	30.0	27.5	28.5	29.5	27.5	28.5	19.0	17.0	18.0
23	26.5	23.5	25.0	30.0	27.5	28.5	28.0	26.5	27.0	18.0	15.5	16.5
24	27.0	24.5	26.0	28.5	26.5	27.5	28.5	25.5	27.0	18.0	15.0	16.5
25	27.5	25.0	26.0	27.5	25.5	26.5	28.5	25.5	27.0	18.0	15.5	17.0
26	28.0	25.0	26.5	26.5	24.0	25.5	28.5	26.0	27.5	19.0	17.0	18.0
27	27.0	25.0	26.0	27.0	24.0	25.5	28.0	26.0	27.0	20.5	17.5	19.0
28	25.5	24.0	25.0	28.0	25.0	26.5	27.0	25.0	26.0	21.5	18.0	19.5
29	24.5	23.5	24.0	28.0	25.5	27.0	27.5	24.5	26.0	22.0	19.0	20.5
30	24.5	23.5	24.0	28.0	25.5	27.0	28.0	25.0	26.5	21.5	18.5	20.0
31	---	---	---	28.0	26.0	27.0	27.5	26.0	26.5	---	---	---
MONTH	28.0	16.0	22.5	30.0	21.5	26.0	30.0	22.5	26.5	27.5	15.0	22.5
YEAR	30.0	.5	15.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	3.4	4.8	11.7	8.4	9.5	10.0	9.0	9.7	---	---	---
2	8.0	2.8	4.8	9.5	6.7	8.1	9.2	8.0	8.8	---	---	---
3	6.0	2.5	4.2	7.2	4.5	5.7	8.2	7.1	7.8	---	---	---
4	6.2	2.0	3.9	6.5	4.5	5.5	7.7	6.9	7.2	13.4	13.0	13.2
5	5.3	2.3	3.6	7.9	6.2	7.0	7.8	6.7	7.1	13.4	12.9	13.1
6	9.7	2.0	7.8	---	---	---	8.7	7.2	7.7	12.9	12.2	12.6
7	6.1	3.8	4.9	---	---	---	10.0	8.0	8.9	12.5	12.0	12.1
8	8.5	4.3	6.0	---	---	---	10.8	8.6	9.6	12.6	11.9	12.2
9	6.3	4.2	5.1	---	---	---	11.0	9.0	10.0	12.7	12.0	12.3
10	8.1	5.1	6.6	8.9	6.8	7.8	11.2	9.9	10.5	12.4	11.4	12.0
11	9.4	5.4	7.3	7.7	6.2	6.9	11.6	10.2	11.0	12.1	11.3	11.6
12	8.0	6.0	6.9	7.0	5.5	6.3	12.9	11.1	12.1	13.0	11.5	12.2
13	9.1	6.4	7.6	8.5	6.5	7.2	13.5	12.0	12.9	13.3	12.1	12.6
14	8.1	6.4	7.4	9.5	8.2	8.9	13.6	12.2	12.9	13.2	12.2	12.7
15	8.3	6.8	7.6	10.0	8.9	9.5	12.9	11.1	11.8	13.2	12.0	12.5
16	9.5	7.3	8.5	10.4	9.0	9.7	11.9	11.2	11.5	13.6	12.5	13.0
17	10.3	8.4	9.3	9.9	8.6	9.3	12.5	11.9	12.2	13.5	12.7	13.0
18	10.8	8.8	9.6	9.6	7.6	8.5	12.8	12.3	12.5	13.3	12.8	13.0
19	---	---	---	8.4	7.0	7.4	12.4	11.7	12.1	13.2	12.6	12.8
20	10.2	7.2	9.3	7.2	6.5	6.8	12.2	11.7	11.9	13.4	12.5	12.9
21	10.6	8.4	9.4	7.6	6.5	6.9	12.9	12.1	12.5	13.0	12.6	12.8
22	11.6	9.1	10.2	8.1	7.4	7.7	12.9	12.1	12.6	12.7	12.3	12.5
23	12.0	9.5	10.7	8.1	7.4	7.6	---	---	---	12.4	12.1	12.3
24	12.6	9.8	11.0	9.3	7.6	8.5	---	---	---	12.3	12.1	12.2
25	13.1	10.3	11.5	10.9	8.9	9.8	---	---	---	12.4	12.1	12.3
26	13.3	10.5	11.8	10.6	9.9	10.2	---	---	---	12.5	12.1	12.3
27	13.4	9.8	11.4	11.1	9.7	10.3	---	---	---	13.0	12.2	12.5
28	13.2	9.7	11.2	10.4	10.0	10.3	---	---	---	13.2	12.1	12.5
29	11.9	9.4	10.4	10.2	9.9	10.1	---	---	---	13.2	12.1	12.5
30	11.1	9.0	9.9	10.7	10.0	10.2	---	---	---	12.2	11.2	11.7
31	12.2	9.1	10.0	---	---	---	---	---	---	13.2	11.2	12.0
MONTH	13.4	2.0	8.1	11.7	4.5	8.3	13.6	6.7	10.6	13.6	11.2	12.5

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	11.6	12.3	15.5	9.6	12.2	12.2	8.8	10.4	---	---	---
2	12.0	10.9	11.4	15.3	9.3	12.0	10.6	8.1	9.1	---	---	---
3	12.0	11.0	11.5	14.4	8.7	11.3	9.9	8.1	9.0	---	---	---
4	12.7	12.0	12.4	13.4	8.1	10.5	10.4	9.9	10.2	---	---	---
5	12.9	12.6	12.8	12.4	7.2	9.7	10.5	9.9	10.2	---	---	---
6	12.9	12.4	12.6	8.9	6.6	7.6	9.9	8.8	9.5	---	---	---
7	12.9	12.2	12.5	9.7	6.4	7.7	9.2	8.5	8.8	---	---	---
8	13.7	12.3	12.9	8.3	6.5	7.4	10.4	8.9	9.8	---	---	---
9	13.5	12.1	12.7	9.0	7.1	8.0	10.4	10.2	10.3	---	---	---
10	13.4	11.8	12.4	11.4	8.5	9.9	10.8	10.2	10.5	---	---	---
11	13.4	11.7	12.4	11.2	9.6	10.3	10.9	10.6	10.8	9.7	9.3	9.5
12	13.2	11.5	12.3	12.6	9.9	11.1	11.0	10.7	10.8	9.4	9.0	9.2
13	14.3	11.7	12.8	12.4	9.9	10.9	10.7	9.9	10.3	9.4	8.5	9.0
14	14.2	11.8	12.7	12.0	9.5	10.4	9.9	9.6	9.7	9.5	8.1	8.8
15	15.0	11.2	12.7	12.5	8.6	10.3	10.5	9.7	10.1	9.0	7.9	8.4
16	14.9	11.4	12.8	12.7	8.3	10.3	11.0	10.7	10.9	10.0	8.9	9.5
17	12.5	10.8	11.6	11.2	8.0	9.6	11.1	10.8	11.0	10.4	9.1	9.8
18	14.6	10.5	12.1	10.4	7.6	8.9	11.6	10.9	11.2	10.1	8.5	9.4
19	16.0	11.0	13.1	9.5	7.5	8.5	11.9	11.1	11.5	9.6	8.2	9.0
20	16.0	11.2	13.2	10.6	8.0	9.4	11.9	11.1	11.3	10.4	8.4	9.3
21	15.8	10.8	13.0	10.5	8.9	9.6	---	---	---	10.5	7.7	9.1
22	15.8	10.3	12.5	12.0	10.1	11.3	11.5	9.8	10.8	9.1	7.6	8.4
23	13.8	9.5	11.1	12.7	11.8	12.1	10.8	9.2	9.9	10.1	7.7	8.8
24	14.2	9.3	11.5	13.4	11.5	12.3	---	---	---	11.1	8.0	9.4
25	13.9	10.1	11.8	14.0	11.5	12.5	---	---	---	10.2	7.7	9.0
26	16.2	10.7	13.2	13.7	11.0	12.2	---	---	---	11.0	8.1	9.5
27	16.4	11.2	13.5	12.5	10.1	11.2	---	---	---	10.6	8.2	9.4
28	15.7	10.8	13.1	10.2	9.1	9.6	---	---	---	9.6	8.0	8.8
29	---	---	---	14.1	9.2	11.3	---	---	---	9.5	8.0	8.7
30	---	---	---	14.9	10.3	12.3	---	---	---	9.7	7.6	8.7
31	---	---	---	14.8	9.9	12.1	---	---	---	10.1	7.9	8.9
MONTH	16.4	9.3	12.5	15.5	6.4	10.4	12.2	8.1	10.3	11.1	7.6	9.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.8	7.8	9.1	6.5	5.6	6.2	12.9	4.0	8.0	7.8	1.9	4.5
2	10.8	7.9	9.2	6.4	6.0	6.2	13.0	3.5	8.3	10.6	2.7	5.8
3	8.6	7.0	7.8	6.2	5.7	6.0	13.6	4.0	8.8	8.3	2.1	4.7
4	9.5	6.9	8.0	6.6	5.7	5.9	10.7	4.1	7.2	10.7	2.8	5.9
5	10.5	7.1	8.5	6.4	5.3	5.9	11.6	3.5	7.0	9.8	2.5	5.4
6	10.2	6.4	8.0	7.1	5.9	6.5	12.3	3.2	7.1	8.7	2.0	4.8
7	12.5	6.3	9.2	7.4	6.4	6.7	11.5	3.4	7.5	7.7	2.2	4.3
8	11.9	6.4	9.0	7.5	5.9	6.4	13.7	4.1	8.4	7.4	2.4	4.4
9	11.9	6.1	8.7	8.0	5.1	6.3	12.7	3.6	8.4	6.7	2.6	4.2
10	11.5	6.0	8.3	8.5	4.9	6.5	11.2	3.8	7.7	7.3	2.3	4.2
11	12.1	5.0	8.3	11.4	5.3	7.8	7.0	3.1	4.7	10.0	2.3	5.2
12	11.4	5.0	8.1	12.9	4.6	8.3	6.9	2.7	4.6	11.5	2.5	5.8
13	13.5	4.8	8.6	15.4	5.0	9.9	9.9	3.4	6.3	7.5	2.4	4.7
14	15.0	4.6	9.2	17.0	5.0	10.6	14.4	4.8	9.1	6.3	2.6	4.3
15	11.0	4.7	7.6	17.6	5.1	11.0	15.0	5.5	9.7	6.3	3.2	4.5
16	12.6	4.5	8.1	16.9	4.0	10.0	15.1	4.2	9.9	6.1	3.4	4.5
17	9.2	4.3	6.5	14.4	3.9	8.1	10.1	4.6	7.8	8.5	3.2	5.5
18	11.6	4.6	7.6	6.7	3.2	5.0	12.7	3.4	8.0	11.3	3.8	7.0
19	8.2	4.1	6.1	7.2	3.4	4.9	12.2	3.3	7.6	13.3	3.8	7.8
20	8.3	5.6	6.6	8.0	2.9	4.9	12.6	2.5	7.1	8.8	3.2	5.6
21	7.7	6.1	6.7	10.6	2.9	6.2	10.1	3.0	6.2	6.2	3.2	4.8
22	7.8	5.8	6.6	13.6	3.3	7.6	8.6	1.9	4.7	7.4	4.1	5.7
23	10.1	5.0	7.0	15.1	3.3	8.4	6.4	1.9	3.6	7.2	5.0	6.1
24	10.2	4.6	6.9	9.2	3.5	6.2	8.9	1.9	4.5	7.4	5.2	6.2
25	11.7	4.1	7.3	7.4	3.8	5.3	9.4	2.1	5.4	9.7	5.5	7.2
26	14.3	4.4	8.7	7.7	3.7	5.4	9.3	2.1	5.0	10.4	5.0	7.0
27	10.7	4.8	7.5	7.3	3.3	5.0	9.7	1.7	4.9	8.3	4.3	6.2
28	7.2	4.0	5.4	10.3	3.2	6.2	7.9	1.9	4.3	11.0	4.1	6.9
29	7.3	4.6	5.8	11.9	3.1	7.1	4.6	2.3	3.2	9.9	3.8	6.5
30	6.6	5.6	6.1	12.2	3.2	7.6	4.7	1.8	2.8	8.6	3.8	5.9
31	---	---	---	12.2	3.7	8.0	4.1	1.6	2.6	---	---	---
MONTH	15.0	4.0	7.7	17.6	2.9	7.0	15.1	1.6	6.5	13.3	1.9	5.5
YEAR	17.6	1.6	8.9									

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	803	830	684	---	736	776	752	---	714	515	775	813
2	788	843	692	---	697	774	720	---	725	558	788	863
3	769	826	712	---	652	781	687	---	741	598	813	868
4	793	800	720	724	587	780	635	---	691	614	794	850
5	837	834	725	728	590	784	618	---	703	598	802	855
6	836	---	722	746	621	746	646	---	721	646	813	885
7	832	---	746	754	692	691	663	---	738	670	823	881
8	766	---	756	758	695	731	572	---	741	682	820	876
9	782	---	775	757	715	728	568	---	751	719	822	883
10	630	936	795	760	721	724	578	---	753	719	814	880
11	686	852	806	778	729	752	594	642	758	731	741	883
12	754	751	809	764	738	734	592	652	749	754	723	864
13	783	652	807	744	728	717	625	678	748	744	812	876
14	804	767	822	744	731	726	587	687	750	721	803	881
15	810	773	800	748	743	746	521	645	759	718	811	915
16	822	831	642	752	739	751	488	632	768	724	839	922
17	817	835	661	752	743	766	558	666	764	718	839	903
18	829	824	638	769	746	769	606	692	707	636	847	879
19	---	851	629	780	749	768	634	704	682	643	872	886
20	841	824	646	784	742	764	657	704	605	687	842	892
21	827	697	663	780	748	709	---	711	612	737	852	808
22	841	571	702	798	754	694	706	653	660	735	849	743
23	842	629	---	623	754	661	716	646	695	739	889	897
24	847	633	---	660	752	672	---	670	727	664	862	859
25	826	679	---	673	743	689	---	688	741	640	877	872
26	848	694	---	674	742	706	---	694	751	654	892	865
27	862	696	---	693	745	716	---	693	750	694	906	890
28	843	605	---	713	755	729	---	688	603	747	875	883
29	840	593	---	718	---	742	---	687	631	776	619	900
30	858	656	---	730	---	742	---	666	620	790	723	911
31	848	---	---	734	---	743	---	689	---	763	831	---
MEAN	809	749	725	737	717	736	624	676	712	688	818	873

WTR YR 1983 MEAN 744 MAX 936 MIN 488

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.9	8.0	---	8.3	8.4	8.4	---	8.3	8.0	8.6	7.8
2	7.9	7.9	7.9	---	8.2	8.5	8.3	---	8.3	8.1	8.6	7.9
3	7.9	7.8	7.9	---	8.3	8.4	8.2	---	8.2	8.1	8.6	7.8
4	7.8	7.7	7.9	7.9	8.2	8.4	8.2	---	8.1	8.1	8.4	8.2
5	7.8	7.8	7.9	7.9	8.2	8.4	8.1	---	8.3	8.1	8.3	8.2
6	7.9	---	7.9	8.0	8.3	8.2	8.0	---	8.3	8.1	8.3	8.1
7	7.9	---	7.9	8.1	8.3	7.9	8.0	---	8.4	8.1	8.5	8.0
8	7.8	---	7.9	8.1	8.3	7.9	8.0	---	8.4	8.1	8.7	8.0
9	7.7	---	8.0	8.1	8.3	8.0	8.0	---	8.3	8.1	8.6	8.0
10	7.8	7.9	8.1	8.1	8.3	8.2	8.0	---	8.3	8.2	8.5	7.9
11	7.8	7.9	8.1	8.1	8.4	8.2	8.1	8.2	8.4	8.3	8.2	8.1
12	7.8	7.8	8.1	8.2	8.4	8.2	8.1	8.2	8.4	8.5	8.1	8.1
13	7.8	7.8	8.1	8.1	8.4	8.2	8.1	8.2	8.5	8.6	8.1	8.0
14	7.8	7.9	8.1	8.1	8.5	8.2	8.1	8.3	8.5	8.5	8.6	7.9
15	7.8	8.0	8.1	8.2	8.4	8.3	7.9	8.2	8.4	8.5	8.6	7.8
16	7.8	8.0	8.0	8.2	8.4	8.4	8.0	8.2	8.3	8.6	8.6	7.8
17	7.9	8.0	8.1	8.2	8.4	8.3	8.1	8.3	8.2	8.4	8.4	8.0
18	7.9	7.9	8.1	8.2	8.3	8.2	8.1	8.3	8.4	8.1	8.4	8.2
19	---	7.9	8.1	8.3	8.5	8.1	8.2	8.3	8.1	7.9	8.4	8.4
20	7.9	7.9	8.1	8.3	8.6	8.2	8.2	8.3	8.1	8.0	8.4	8.1
21	7.8	7.9	8.1	8.3	8.5	8.1	---	8.3	8.1	8.2	8.4	8.0
22	7.8	7.8	8.2	8.2	8.5	8.3	8.3	8.3	8.1	8.4	8.1	7.9
23	7.9	7.8	---	8.2	8.4	8.3	8.2	8.3	8.2	8.6	8.0	8.0
24	7.9	7.9	---	8.2	8.5	8.2	---	8.4	8.1	8.3	8.0	7.9
25	8.0	8.0	---	8.2	8.5	8.3	---	8.4	8.2	8.2	8.1	8.1
26	8.0	8.1	---	8.2	8.6	8.3	---	8.3	8.5	7.9	8.1	8.1
27	8.0	8.1	---	8.3	8.6	8.4	---	8.3	8.4	7.9	8.1	8.1
28	7.9	8.0	---	8.3	8.5	8.3	---	8.3	8.1	8.1	8.0	8.1
29	7.9	8.0	---	8.3	---	8.2	---	8.3	8.2	8.3	7.8	8.1
30	7.9	8.0	---	8.3	---	8.4	---	8.3	8.1	8.3	7.7	8.1
31	7.9	---	---	8.3	---	8.5	---	8.3	---	8.6	7.7	---
MEAN	7.9	7.9	8.0	8.2	8.4	8.3	8.1	8.3	8.3	8.2	8.3	8.0

WTR YR 1983 MEAN 8.2 MAX 8.7 MIN 7.7

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	16.5	9.0	---	4.5	8.5	11.0	---	16.5	24.0	26.5	25.5
2	20.5	17.5	11.0	---	6.0	9.0	10.5	---	17.0	25.0	26.5	25.0
3	21.0	17.0	13.5	---	5.5	10.0	9.5	---	17.5	25.5	26.5	25.0
4	21.0	14.0	14.5	4.0	3.0	12.0	9.0	---	18.0	24.5	26.0	25.5
5	21.0	10.5	14.5	3.5	2.0	13.5	9.5	---	19.5	24.0	26.5	26.0
6	21.5	---	12.0	4.5	2.0	14.5	11.0	---	20.5	23.0	27.0	25.5
7	21.5	---	10.0	5.0	2.5	14.5	12.5	---	20.0	22.5	27.5	25.0
8	21.0	---	9.0	5.0	2.5	14.0	10.0	---	20.5	22.5	27.5	24.5
9	21.5	---	7.5	4.5	3.5	11.5	9.5	---	21.0	23.5	27.5	24.5
10	21.5	12.5	6.0	5.5	4.0	9.5	9.5	---	22.0	25.0	26.5	25.0
11	20.0	13.0	6.0	6.0	4.0	8.0	9.0	---	23.0	25.5	25.5	25.5
12	18.5	13.0	4.0	4.5	3.5	7.5	9.0	16.0	24.0	26.5	24.5	25.5
13	17.5	9.5	3.0	4.5	3.5	8.0	10.5	17.0	24.5	27.0	24.0	24.0
14	17.0	7.5	3.0	4.0	4.0	10.0	12.0	18.0	25.0	27.0	24.5	22.0
15	15.5	7.0	5.5	4.0	5.0	10.5	10.5	17.5	24.0	28.0	25.0	20.5
16	14.5	6.5	6.0	2.5	6.0	11.0	9.5	15.5	24.0	28.0	25.5	20.5
17	13.5	7.5	5.0	2.5	6.5	11.0	9.5	15.5	24.0	27.5	25.0	21.0
18	13.5	10.5	4.0	1.0	6.5	10.5	8.5	16.0	24.0	27.0	25.5	22.0
19	---	11.0	5.0	1.0	7.0	10.5	8.0	16.0	23.5	27.5	26.5	23.0
20	14.0	12.5	4.5	1.5	7.5	9.0	7.5	16.5	23.0	28.0	28.5	23.5
21	13.0	13.5	4.0	1.0	8.5	7.5	---	17.5	23.0	28.5	28.5	21.0
22	12.0	12.5	4.0	1.5	9.5	5.5	12.5	18.0	23.5	29.0	28.0	18.0
23	12.0	12.5	---	2.0	10.0	4.5	12.5	18.5	24.5	28.5	27.0	16.5
24	11.5	10.5	---	3.0	9.0	5.5	---	19.0	25.5	27.5	27.0	16.5
25	12.0	7.5	---	3.0	7.0	5.5	---	18.0	26.0	26.0	27.0	17.0
26	12.0	7.0	---	3.0	6.0	7.0	---	17.0	26.5	25.5	27.0	18.0
27	12.5	7.0	---	3.0	6.5	8.5	---	16.5	26.0	25.5	26.5	19.0
28	13.5	6.5	---	3.0	7.0	8.0	---	16.5	25.0	26.5	25.5	19.5
29	13.0	7.5	---	3.0	---	8.0	---	16.0	24.0	27.0	25.5	20.0
30	13.0	7.5	---	4.5	---	8.5	---	16.5	24.0	27.0	26.5	20.0
31	15.0	---	---	4.5	---	9.5	---	16.5	---	27.0	26.5	---
MEAN	16.5	10.5	7.5	3.5	5.5	9.5	10.0	17.0	22.5	26.0	26.5	22.0

WTR YR 1983 MEAN 15.0 MAX 29.0 MIN 1.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	9.3	9.7	---	12.1	12.1	10.4	---	9.1	6.2	7.7	4.5
2	4.4	8.1	8.9	---	11.4	11.8	8.9	---	9.0	6.2	8.5	4.6
3	4.2	5.1	7.8	---	11.6	11.0	9.0	---	7.8	5.9	9.2	4.2
4	3.5	5.8	7.1	13.3	12.4	10.3	10.3	---	7.9	5.8	7.1	4.8
5	3.5	6.6	7.1	13.0	12.8	9.4	10.3	---	8.4	5.9	6.8	4.3
6	8.0	---	7.7	12.7	12.6	7.5	9.5	---	8.0	6.6	6.4	3.9
7	5.1	---	9.0	12.1	12.5	7.7	8.8	---	9.2	6.6	7.3	3.6
8	5.7	---	9.6	12.2	12.9	7.5	10.2	---	8.9	6.2	8.6	3.7
9	5.0	---	10.1	12.2	12.6	8.2	10.3	---	8.3	6.2	8.3	3.5
10	6.8	7.7	10.8	12.0	12.3	10.2	10.6	---	8.1	6.4	7.7	3.3
11	7.4	7.0	11.0	11.6	12.3	10.3	10.8	9.5	8.1	7.4	4.7	4.3
12	7.0	6.2	12.3	12.4	12.3	11.1	10.8	9.2	8.0	8.0	4.6	4.7
13	7.4	7.0	13.0	12.6	12.6	10.8	10.4	9.0	8.0	9.5	6.1	4.1
14	7.6	8.8	13.1	12.6	12.5	10.2	9.7	8.8	8.9	10.3	9.3	4.1
15	7.7	9.5	11.8	12.5	12.6	10.3	10.0	8.4	7.1	10.7	9.8	4.1
16	8.6	9.8	11.7	13.0	12.6	10.2	11.0	9.7	7.5	10.1	9.6	4.2
17	9.3	9.5	12.3	13.0	11.5	9.5	11.0	9.8	6.2	8.1	8.3	5.1
18	9.4	8.5	12.5	12.9	12.0	8.7	11.3	9.4	7.6	5.1	7.6	6.3
19	---	7.3	12.2	12.8	13.1	8.6	11.5	9.1	6.2	4.6	7.2	6.6
20	9.3	6.8	11.9	13.0	13.0	9.7	11.2	9.2	6.4	4.8	6.5	5.3
21	9.6	6.8	12.5	12.7	12.7	9.6	---	8.9	6.6	5.9	5.9	5.0
22	10.3	7.7	12.6	12.5	12.1	11.6	11.0	8.4	6.4	6.9	4.0	6.0
23	10.6	7.5	---	12.3	10.7	12.0	10.5	8.8	6.8	8.3	3.2	6.1
24	10.8	8.6	---	12.2	11.6	12.2	---	9.5	6.7	6.2	4.0	6.0
25	11.6	9.9	---	12.3	12.0	12.4	---	9.2	6.9	5.0	4.7	6.7
26	11.6	10.2	---	12.2	13.3	12.0	---	9.6	8.2	5.1	4.5	6.3
27	11.5	10.4	---	12.4	13.6	11.1	---	9.4	7.4	4.9	4.1	6.0
28	11.1	10.3	---	12.4	12.7	9.6	---	8.8	5.2	6.0	3.7	6.1
29	10.4	10.1	---	12.5	---	11.7	---	8.7	5.6	7.2	3.0	6.0
30	9.7	10.2	---	11.8	---	12.2	---	8.8	6.2	7.9	2.4	5.5
31	9.5	---	---	12.1	---	11.9	---	8.8	---	8.1	2.6	---
MEAN	8.0	8.3	10.7	12.5	12.4	10.4	10.3	9.1	7.5	6.8	6.2	5.0

WTR YR 1983 MEAN 8.8 MAX 13.6 MIN 2.4

03271800 TWIN CREEK NEAR INGOMAR, OH

LOCATION.--Lat 39°42'28", long 84°31'30", in sec. 15, T.5 N., R.3 E., Preble County, Hydrologic Unit 05080002, on left bank at downstream side of bridge on Halderman Road, 0.5 mi (0.8 km) downstream from Bantas Fork, 1.4 mi (2.3 km west of Ingomar, and 4.8 mi (7.7 km) upstream from Aukerman Creek.

DRAINAGE AREA.--197 mi^2 (510 km^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 (248.540 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--21 years, 193 ft^3/s (5.466 m^3/s) 13.30 in/yr (338 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,300 ft^3/s (547 m^3/s) Mar. 4, 1963, gage height, 14.40 ft (4.389 m), from rating curve extended above 7,000 ft^3/s (198 m^3/s) on basis of contracted-opening measurement at gage height 18.8 ft (5.73 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Sept. 12-14, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959 reached a stage of 18.8 ft (5.73 m), discharge, 30,300 ft^3/s (858 m^3/s), computed by Miami Conservancy District. Flood of Mar. 25, 1913 reached a stage of 28.0 ft (8.53 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4700 ft^3/s (133 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 27	1330	5430	154	7.90	2.408	May 2	0730	*5510	156	*7.96	2.426

Minimun discharge, 3.3 ft^3/s (0.093m^3/s) Sept. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	155	211	192	64	92	1580	81	202	12	5.9
2	13	18	123	176	832	63	153	2990	73	87	11	5.4
3	12	19	108	152	750	60	388	3480	75	57	10	5.0
4	12	23	97	132	319	58	278	1580	82	85	11	5.0
5	12	21	92	122	202	57	198	754	71	101	12	5.0
6	12	18	94	116	174	62	183	426	65	54	12	5.0
7	12	17	77	112	154	68	213	308	64	41	10	4.6
8	13	16	67	99	130	92	460	506	58	36	10	4.3
9	14	16	62	92	120	160	793	323	54	33	9.1	4.3
10	15	16	59	95	118	113	726	237	51	30	8.3	4.3
11	15	17	61	95	116	93	381	194	48	28	12	4.3
12	15	22	53	87	106	82	273	169	45	27	12	4.0
13	14	24	47	77	95	76	243	151	43	24	10	4.0
14	14	24	47	76	97	74	1190	141	42	23	9.6	3.6
15	14	21	85	78	97	71	965	182	49	21	8.3	3.6
16	13	19	699	70	98	64	404	186	65	20	8.3	4.0
17	13	18	284	66	102	61	281	144	50	19	7.5	4.0
18	14	18	178	64	96	67	221	125	70	23	7.9	3.6
19	14	18	159	62	95	70	185	122	64	25	7.9	3.6
20	15	21	163	62	89	66	157	116	65	21	7.5	3.6
21	15	153	127	62	83	472	139	101	56	20	6.4	6.8
22	15	281	103	329	79	306	125	531	45	18	6.4	5.0
23	15	161	99	657	83	183	117	334	40	16	6.4	5.0
24	15	221	104	472	78	147	113	184	38	21	6.7	5.0
25	15	114	251	305	74	126	100	146	35	18	6.3	5.0
26	15	80	816	222	65	108	91	129	33	18	5.9	5.0
27	15	114	2850	179	61	111	85	111	31	18	5.6	4.6
28	15	555	2060	154	62	122	86	102	35	15	6.7	4.6
29	15	502	868	139	---	104	85	101	39	14	6.2	4.6
30	15	225	407	192	---	92	295	100	156	14	5.6	4.3
31	16	---	271	234	---	92	---	88	---	12	5.7	---
TOTAL	437	2789	10666	4989	4567	3384	9020	15641	1723	1141	264.3	137.0
MEAN	14.1	93.0	344	161	163	109	301	505	57.4	36.8	8.53	4.57
MAX	16	555	2850	657	832	472	1190	3480	156	202	12	6.8
MIN	12	16	47	62	61	57	85	88	31	12	5.6	3.6
CFSM	.07	.47	1.75	.82	.83	.55	1.53	2.56	.29	.19	.04	.02
IN.	.08	.53	2.01	.94	.86	.64	1.70	2.95	.33	.22	.05	.03

CAL YR 1982 TOTAL 96464.0 MEAN 264 MAX 6100 MIN 12 CFSM 1.34 IN 18.22
WTR YR 1983 TOTAL 54758.3 MEAN 150 MAX 3480 MIN 3.6 CFSM .76 IN 10.34

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 (0.5 km) downstream from Germantown Dam, 1.5 mi (2.4 km) northwest of Germantown, and 3 mi (5 km) upstream from Little Twin Creek.

DRAINAGE AREA.--275 mi^2 (712 km^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 (213.433 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 18, 1926, nonrecording gage at site 1 mi (2 km) downstream at datum 12.49 ft (3.807 m) higher.

REMARKS.--Records good. Flood flow regulated by Germantown retarding basin, 0.3 mi (0.5 km) upstream beginning in 1920.

COOPERATION.--Gage-height tapes, and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--65 years (1914-23, 1927-83), 264 ft^3/s (7.476 m^3/s), 13.04 in/yr (331 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,390 ft^3/s (266 m^3/s) July 8, 1915, gage height 11.7 ft (3.57 m), from graph based on gage readings, site and datum then in use; maximum gage height, 29.19 ft (8.897 m) Jan. 22, 1959; minimum discharge, 1.5 ft^3/s (0.042 m^3/s) Sept. 25, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 18.3 ft (5.58 m), original site and datum, discharge, 66,000 ft^3/s (1,870 m^3/s), computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR. -Maximum discharge, 5,590 ft^3/s (158 m^3/s) May 4, gage height 26.01 ft (7.928 m); minimum, 9.1 ft^3/s (0.26 m^3/s) Sept. 9,12,16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	24	216	333	270	87	131	3930	133	261	16	10
2	20	25	174	274	977	85	174	3910	119	111	15	11
3	19	27	151	233	1090	84	476	4380	118	66	14	10
4	17	27	136	199	491	81	409	4540	136	87	14	9.8
5	16	29	127	186	287	79	290	1310	115	178	15	9.9
6	16	28	129	176	251	87	258	761	101	76	15	9.5
7	16	27	113	169	222	95	284	554	98	49	14	10
8	18	26	99	151	184	111	942	843	91	40	13	10
9	18	25	92	139	169	194	1660	598	83	35	13	9.5
10	18	25	88	141	167	159	1300	429	78	32	12	9.6
11	18	26	90	144	162	131	669	346	74	30	29	9.8
12	18	30	84	131	151	113	467	296	69	28	20	10
13	18	34	79	118	136	105	405	262	64	26	14	11
14	18	33	76	113	134	101	1420	244	62	24	13	9.6
15	18	31	88	110	136	97	1700	295	60	23	12	9.5
16	18	29	817	100	134	90	703	331	85	21	12	9.8
17	18	28	444	96	136	86	476	254	79	21	12	9.7
18	18	27	261	94	129	95	368	216	88	21	12	9.8
19	18	27	227	92	127	101	304	207	107	27	12	9.8
20	19	29	239	92	120	95	254	197	143	27	12	9.7
21	20	79	194	120	111	539	222	173	90	22	12	13
22	20	291	159	700	109	491	199	836	69	20	11	14
23	21	170	149	998	111	270	186	625	59	18	12	12
24	21	225	162	732	107	210	179	327	54	22	12	12
25	21	135	216	476	101	181	154	245	50	20	11	11
26	21	94	1090	341	93	157	146	214	47	19	11	11
27	21	106	2730	270	86	154	137	183	44	18	11	11
28	21	458	3770	227	86	171	137	168	50	18	13	11
29	22	720	1360	205	---	151	135	194	100	17	12	10
30	23	322	669	242	---	134	378	179	88	16	11	10
31	23	---	440	341	---	131	---	151	---	19	10	---
TOTAL	595	3157	14669	7743	6277	4665	14563	27198	2554	1392	415	313.0
MEAN	19.2	105	473	250	224	150	485	877	85.1	44.9	13.4	10.4
MAX	23	720	3770	998	1090	539	1700	4540	143	261	29	14
MIN	16	24	76	92	86	79	131	151	44	16	10	9.5
CFSM	.07	.38	1.72	.91	.82	.55	1.76	3.19	.31	.16	.05	.04
IN.	.08	.43	1.98	1.05	.85	.63	1.97	3.68	.35	.19	.06	.04

CAL YR 1982 TOTAL 137259.0 MEAN 376 MAX 6420 MIN 16 CFSM 1.37 IN 18.57
WTR YR 1983 TOTAL 83541.0 MEAN 229 MAX 4540 MIN 9.5 CFSM .83 IN 11.30

03272700 SEVENMILE CREEK AT CAMDEN, OH

LOCATION.--Lat 39°37'45", long 84°38'40", Preble County, Hydrologic Unit 05080002, 0.3 mi (0.5 km) downstream from Beasley Run on right bank at downstream side of bridge on State Highway 725 in Camden, and at mile 16.2 (26.1 km).

DRAINAGE AREA.--69.0 mi^2 (179 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 818.57 ft (249.501 m) National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District). Prior to Oct. 1, 1975, at same site at datum 3.02 ft (0.920 m) higher.

REMARKS.--Records fair except those for Apr. 30 to May 16, June 28 to Aug. 5, which are poor. Water-quality data collected at this site 1972 to 1974.

COOPERATION.--Gage-height tapes, and 11 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--12 years (1972-83), 72.7 ft^3/s (2.059 m^3/s), 14.31 in/yr (363 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,210 ft^3/s (176 m^3/s) June 22, 1974, gage height 13.25 ft (4.039 m), present datum from rating curve extended above 2,200 ft^3/s (62.3 m^3/s); minimum daily, 1.6 ft /s (0.045 m^3/s) July 21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1500 ft^3/s (42.5 m^3/s) and maximums (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 27	1300	2130	60.3	8.53	2.600	May 2	0645	4190	119	10.84	3.304
Apr. 30	----	*6020	170	*12.43	3.789	May 3	0730	2390	67.7	8.87	2.704

Minimum daily discharge, 1.7 ft^3/s (0.048 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.6	56	82	68	25	39	1140	32	74	7.2	2.6
2	4.7	8.0	46	70	269	24	82	1470	30	30	6.0	2.4
3	4.3	11	41	60	204	23	127	1570	33	20	5.8	2.7
4	4.1	12	38	51	111	22	92	483	35	40	5.6	2.4
5	4.4	12	38	48	77	22	77	255	29	50	6.0	2.0
6	4.4	10	37	45	68	26	77	167	26	34	5.0	1.8
7	4.3	9.4	30	43	60	28	84	139	23	18	4.9	2.0
8	6.7	9.4	27	36	49	53	240	196	21	14	4.1	2.0
9	5.8	9.9	26	35	47	61	314	131	20	12	4.0	2.2
10	5.5	9.4	25	36	46	45	238	104	19	12	4.1	2.0
11	4.9	10	27	34	44	38	154	89	18	11	16	2.0
12	4.6	18	22	30	38	34	117	78	18	10	8.7	1.8
13	4.6	16	19	28	35	32	116	77	17	9.6	5.5	1.9
14	4.6	15	20	26	37	32	434	69	16	9.4	4.5	2.1
15	4.4	12	36	25	37	29	264	89	32	9.2	4.2	2.0
16	4.3	12	158	24	36	27	150	92	28	9.0	4.1	2.3
17	4.2	11	86	21	37	26	119	68	18	9.0	3.9	2.5
18	4.2	11	62	19	34	32	95	60	21	20	3.7	2.2
19	4.5	11	60	17	35	30	81	57	81	13	3.7	1.9
20	5.5	14	58	16	32	30	69	51	40	10	3.7	1.8
21	5.2	65	49	19	30	159	62	46	25	8.8	3.1	5.1
22	5.4	106	41	141	30	91	56	181	20	8.0	2.9	3.7
23	5.4	67	42	175	32	63	54	97	18	6.8	3.3	2.7
24	5.4	74	45	132	30	54	51	63	16	9.0	3.8	2.3
25	5.6	48	92	95	27	47	45	55	14	12	3.3	2.1
26	5.6	38	202	73	24	42	42	49	13	9.2	3.1	1.9
27	5.8	43	1060	61	23	48	40	43	12	8.4	3.0	1.9
28	5.8	127	567	55	23	49	41	41	14	7.6	3.0	1.7
29	6.0	126	245	50	---	41	39	45	31	7.0	2.9	1.7
30	6.0	74	147	73	---	38	385	40	24	6.4	2.7	1.7
31	6.2	---	104	81	---	38	---	35	---	6.0	2.6	---
TOTAL	157.5	995.7	3506	1701	1583	1309	3784	7080	744	503.4	144.4	67.4
MEAN	5.08	33.2	113	54.9	56.5	42.2	126	228	24.8	16.2	4.66	2.25
MAX	6.7	127	1060	175	269	159	434	1570	81	74	16	5.1
MIN	4.1	6.6	19	16	23	22	39	35	12	6.0	2.6	1.7
CFSM	.07	.48	1.64	.80	.82	.61	1.83	3.30	.36	.24	.07	.03
IN.	.08	.54	1.89	.92	.85	.71	2.04	3.82	.40	.27	.08	.04

CAL YR 1982 TOTAL 32704.6 MEAN 89.6 MAX 2650 MIN 3.2 CFSM 1.30 IN 17.63
WTR YR 1983 TOTAL 21575.4 MEAN 59.1 MAX 1570 MIN 1.7 CFSM .86 IN 11.63

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 (305 m) downstream from Columbia Bridge at Hamilton, 3 mi (5 km) downstream from Four Mile Creek, 4.3 mi (6.9 km) upstream from Pleasant Run, and at mile 34.8 (56.8 km).

DRAINAGE AREA.--3,630 mi² (9,402 km²).

PERIOD OF RECORD.--January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi (1.1 km) upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Hamilton.

REVISED RECORDS.--WSP 803: 1936. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 499.98 ft (152.394 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi (1.1 km) upstream at datum 64.65 ft (19.705 m) higher.

REMARKS.--Records good. Some regulation at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station beginning in 1920 (see REMARKS for station numbers 03271500 and 03272000). Small diversion about 6 mi (10 km) upstream from gage for municipal supply of Hamilton. Diversion averaged 0.46 ft³/s (0.013 m³/s) in 1983 and is returned as sewage 1.4 mi (2.3 km) downstream from the station. The Miami and Erie Canal diverted water from the basin 1.7 mi (2.7 km) upstream from station until Nov. 1, 1930, when 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 10 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--52 years (1931-83), 3,279 ft³/s (92.86 m³/s), 12.27 in/yr (312 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 352,000 ft³/s (9,970 m³/s) Mar. 26, 1913, gage height, 38.5 ft (11.73 m), site and datum then in use, computed by Miami Conservancy District; maximum discharge since construction of five retarding basins upstream in 1922, 108,000 ft³/s (3,060 m³/s) Jan. 21, 1959, gage height 79.47 ft (24.222 m); minimum daily discharge, 155 ft³/s (4.39 m³/s) Sept 27, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53,200 ft³/s (1,510 m³/s) May 1, gage height, 72.90 ft (22.220 m); minimum daily, 396 ft³/s (11.2 m³/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	753	669	2890	4340	2780	1230	1620	36500	2230	4280	716	510
2	753	663	2290	3630	4620	1220	1850	33500	2040	4210	731	506
3	776	772	1970	3170	6910	1200	2930	37700	1930	3270	701	477
4	620	746	1780	2810	6940	1170	4910	28500	2330	2540	651	464
5	585	682	1640	2610	4810	1130	4110	19000	2010	3090	665	421
6	572	646	1650	2400	3690	1340	3390	12300	1800	2620	672	397
7	505	620	1580	2250	3310	1830	3310	8420	1740	2210	623	422
8	678	617	1420	2040	2970	1730	7980	8450	1650	1770	582	440
9	753	629	1240	1840	2680	2110	11200	7570	1550	1430	576	424
10	911	629	1100	1850	2530	2420	9820	6280	1450	1310	576	438
11	935	646	1090	1890	2450	2200	8490	5250	1390	1180	731	438
12	791	791	1080	1870	2360	1850	6510	4580	1300	1140	972	445
13	737	1130	1000	1780	2180	1630	5650	4000	1240	1090	679	441
14	715	864	957	1720	1970	1520	9170	3730	1240	1010	582	444
15	671	756	1110	1680	1890	1450	13700	6380	1210	945	537	416
16	642	727	3960	1620	1860	1380	11600	5580	1210	919	531	414
17	620	685	4490	1510	1840	1300	7970	4100	1220	859	537	424
18	585	708	4170	1440	1850	1310	6060	3520	1610	1140	562	432
19	606	671	3360	1280	1860	1390	4940	3210	1400	1380	569	403
20	620	770	3260	1250	1820	1380	4210	3030	2860	1140	556	396
21	649	1380	2980	1420	1720	3240	3550	2770	3270	1040	537	568
22	627	3050	2670	4920	1670	3820	3140	4500	2410	999	500	642
23	606	2530	2360	6260	1620	3860	2830	4560	1870	919	494	517
24	585	2480	2270	5280	1530	2870	2630	3840	1590	1070	524	444
25	558	2040	2440	4570	1470	2360	2470	3290	1390	1460	500	416
26	544	1880	4800	3740	1390	2060	2420	3000	1240	1070	488	408
27	592	1790	11700	3140	1300	1880	2180	2720	1140	954	494	418
28	606	2680	18400	2720	1250	1930	1990	2520	1650	901	506	435
29	620	4420	13500	2440	---	1910	2000	2560	2070	802	1170	435
30	613	3510	8420	2440	---	1770	3160	2910	2760	770	679	427
31	585	---	5660	2850	---	1670	---	2410	---	731	569	---
TOTAL	20413	40181	117237	82760	73270	58160	155790	276680	52800	48249	19210	13462
MEAN	658	1339	3782	2670	2617	1876	5193	8925	1760	1556	620	449
MAX	935	4420	18400	6260	6940	3860	13700	37700	3270	4280	1170	642
MIN	505	617	957	1250	1250	1130	1620	2410	1140	731	488	396
CFSM	.18	.37	1.04	.74	.72	.52	1.43	2.46	.49	.43	.17	.12
IN.	.21	.41	1.20	.85	.75	.60	1.60	2.84	.54	.49	.20	.14

CAL YR 1982 TOTAL 1631331 MEAN 4469 MAX 46700 MIN 505 CFSM 1.23 IN 16.72
WTR YR 1983 TOTAL 958212 MEAN 2625 MAX 37700 MIN 396 CFSM .72 IN 9.82

03274600 GREAT MIAMI RIVER AT NEW BALTIMORE, OH
(National stream-quality accounting network station)

LOCATION.--Lat 39°15'47", long 84°40'04", in N 1/2 sec. 34, R.1, T.2, Hamilton County, Hydrologic Unit 05080002, at Blue Rock Road bridge at New Baltimore, 6.4 mi (10.3 km) downstream from Indian Creek, and 14.3 mi (23.0 km) downstream from discharge station at Hamilton.

DRAINAGE AREA.--3,814 mi² (9,878 km²).

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 28...	1500	886	30	4	110	1	1	16	3	8	13
DEC 14...	1330	960	30	2	110	<1	<1	4	<3	8	27
MAR 01...	0900	1230	--	--	--	--	--	--	--	--	--
APR 20...	1100	4260	<10	1	120	<1	<1	<1	<3	13	22
JUN 14...	1000	1230	30	2	130	<1	<1	3	<3	10	11
SEP 14...	1630	445	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 28...	2	13	14	<.1	10	14	<1	<1	790	6.0	17
DEC 14...	1	9	24	<.1	20	12	<1	<1	970	<6.0	15
MAR 01...	--	--	--	--	--	--	--	--	--	--	--
APR 20...	2	5	14	.1	10	8	1	<1	650	<6.0	18
JUN 14...	<1	13	3	.1	<10	7	<1	<1	870	<6.0	8
SEP 14...	--	--	--	--	--	--	--	--	--	--	--

03274600 GREAT MIAMI RIVER AT NEW BALTIMORE, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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										
28...	1500	886	870	8.5	24.0	16.0	4.6	11.4	117	260
DEC										
14...	1330	960	860	8.1	6.0	5.0	4.7	12.6	101	4000
MAR										
01...	0900	1230	770	8.3	5.0	7.0	4.4	11.4	96	4600
APR										
20...	1100	4260	660	8.1	4.0	9.5	28	11.2	100	1600
JUN										
14...	1000	1230	740	8.5	24.5	24.5	17	8.5	104	130
SEP										
14...	1630	445	900	8.6	22.0	24.5	14	10.6	129	500

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
28...	210	78	33	48	24	1.2	5.8	240	94	78
DEC										
14...	420	83	34	42	21	1.0	2.2	238	91	51
MAR										
01...	840	81	33	33	17	.8	4.0	240	88	61
APR										
20...	600	76	29	19	12	.5	2.9	217	68	35
JUN										
14...	1800	82	34	32	17	.8	3.9	251	84	54
SEP										
14...	470	81	35	65	29	1.6	5.8	223	110	100

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
28...	.6	4.3	495	5.0	.030	.04	1.00	.730	.640	.600
DEC										
14...	.4	6.1	489	4.9	.670	.86	1.40	.560	.520	.500
MAR										
01...	.5	.4	509	3.8	.490	.63	1.60	.380	.300	.300
APR										
20...	.4	6.2	441	<5.8	.290	.37	.60	.190	.190	.190
JUN										
14...	.5	1.2	493	2.8	.010	.01	1.50	.290	.210	.190
SEP										
14...	.8	3.1	606	3.3	.010	.01	.90	.750	.580	.570

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
28...	1500	886	16.0	24	57
DEC					
14...	1330	960	5.0	7	18
MAR					
01...	0900	1230	7.0	10	33
APR					
20...	1100	4260	9.5	40	460
JUN					
14...	1000	1230	24.5	36	120
SEP					
14...	1630	445	24.5	37	44

As the number of streams on which discharge and chemical quality data information is likely to be desired far exceeds the number of stations feasible to operate at one time, the Geological Survey collects limited data at sites other than regular stations. When limited data are collected on a systematic basin over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are useable in low-flow or floodflow analyses, depending on the type data collected. In addition, discharge measurements are made at othersites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two parts. Given first are records of discharge measurements and chemical-quality data made at low flow sites followed by a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a second table.

LOW-FLOW PARTIAL-RECORD STATIONS

Measurements of streamflow and chemical quality data in the area covered by this report made at low-flow partial-record stations are given in the following section. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The "PERIOD OF RECORD" paragraph shows the water years in which measurements were made at the same, or practically the same, site. All low-flow sites in the following pages were discontinued in 1983.

LITTLE BEAVER CREEK BASIN

03108980 MIDDLE FORK LITTLE BEAVER CREEK NEAR SALEM, OH

LOCATION.--Lat 40°54'20", long 80°48'17", Mahoning County, Hydrologic Unit 05030101, at bridge on State Highway Alt. 14, 1.1 mi (1.8 km) east of Salem, 4 mi (6.4 km) upstream from East Branch Middle Fork Little Beaver Creek.

DRAINAGE AREA.--35.7 mi² (92.5 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV												
01...	1045	15	--	--	--	--	--	--	--	--	--	--
MAR												
07...	1015	16	690	7.7	10.0	10.3	80	21	35	3.8	150	190
JUL												
18...	1415	16	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	51	.4	3.2	520	2.0	.260	.54	.070	.050	18	1000
JUL											
18...	--	--	--	--	--	--	--	--	--	--	--

03108990 EAST BRANCH MIDDLE FORK LITTLE BEAVER CREEK AT LEETONIA, OH

LOCATION.--Lat 40°52'16", long 80°45'54", Columbiana County, Hydrologic Unit 05030101, at bridge on State Route 344, 0.6 mi (1.0 km) southwest of Leetonia, 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--28.0 mi² (72.5 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV 01...	1145	2.6	--	--	--	--	--	--	--	--	--	--
MAR 07...	1130	4.3	622	8.1	10.0	13.6	72	18	26	2.8	180	120
JUL 18...	1320	6.7	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 01...	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	48	.2	2.5	454	1.6	.020	.38	.020	.020	110	190
JUL 18...	--	--	--	--	--	--	--	--	--	--	--

LITTLE BEAVER CREEK BASIN

03109150 WEST FORK LITTLE BEAVER CREEK AT GUILFORD, OH

LOCATION.--Lat 40°47'30", long 80°52'12", Columbiana County, Hydrologic Unit 05030101, at culvert on State Route 172, downstream from Guilford Lake at Guilford.

DRAINAGE AREA.--11.5 mi² (29.8 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
NOV 01...	0945	27	--	--	--	--	--	--	--	--	--	--
MAR 07...	1415	18	295	8.5	10.0	14.0	36	8.5	9.3	2.0	96	4
JUL 16...	1020	.43	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	50	17	.2	5.5	211	.70	.040	1.3	.060	.040	15	72
JUL 16...	--	--	--	--	--	--	--	--	--	--	--	--

03136235 KOKOSING RIVER NEAR MT. VERNON, OH

LOCATION.--Lat 40°25'33", long 82°30'59", Knox County, Hydrologic Unit 05040003, at bridge on county road 1.0 mi (1.6 km) upstream from North Branch, 2.8 mi (4.5 km) northwest of Mt. Vernon.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
MAR 08...	1020	45	520	8.1	12.5	11.4	67	24	10	1.7	280	54
JUL 14...	1413	20	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 08...	23	.2	2.8	381	.80	.020	.38	.010	<.010	73	45
JUL 14...	--	--	--	--	--	--	--	--	--	--	--

03138910 SALT CREEK AT HOLMESVILLE, OH

LOCATION.--Lat 40°38'07", long 81°55'26", Holmes County, Hydrologic Unit 05040003, at bridge on State Highway 83, 0.3 mi (0.5 km) north of Holmesville, 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--42.6 mi² (110.3 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
MAR 08...	1350	14	390	8.5	11.5	13.8	50	15	10	2.4	150	16
JUL 14...	1025	5.2	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 08...	53	15	.2	1.3	277	1.5	<.010	.020	<.010	17	3
JUL 14...	--	--	--	--	--	--	--	--	--	--	--

03144830 SOUTH FORK LICKING RIVER NEAR MILLERSPORT, OH

LOCATION.--Lat 39°56'17", long 82°32'13", Licking County, Hydrologic Unit 05040006, at bridge on State Route 37, 0.3 mi (0.5 km) south of Interstate 70, 2.5 mi (4.0 km) north of Millersport.

DRAINAGE AREA.--62.9 mi² (162.9 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 07...	1340	2.9	--	--	--	--	--	--	--	--	--	--
MAR 07...	1130	22	700	8.0	13.0	9.9	64	24	29	2.4	250	74
AUG 31...	0945	2.6	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	50	.3	1.4	414	1.1	.020	.48	.070	.030	82	70
AUG 31...	--	--	--	--	--	--	--	--	--	--	--

HOCKING RIVER BASIN

03156550 RUSH CREEK NEAR JUNCTION CITY, OH

LOCATION.--Lat 39°43'13", long 82°21'01", Perry County, Hydrologic Unit 05030204, at bridge on Flag Dale Road (Perry County Road 23), 0.4 mi (0.6 km) downstream from Center Branch, 2.7 mi (4.3 km) west of Junction City.

DRAINAGE AREA.--71.0 mi² (183.9 km²).

PERIOD OF RECORD.--Discharge, water years 1978 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	ACIDITY (MG/L AS H)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)
OCT 06...	1145	6.2	--	--	--	--	--	--	--	--	--	--
MAR 07...	1645	37	910	4.7	14.0	10.5	1.0	63	39	28	2.9	4
SEP 15...	1525	4.3	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 06...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	340	89	.4	11	689	.50	.400	.10	.100	<.010	2500	6100
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	--

HOCKING RIVER BASIN

03156900 CLEAR CREEK AT CLEARPORT, OH

LOCATION.--Lat 39°37'06", long 82°40'50", in sec. 9 T.13 N., R.19 W., Fairfield County, Hydrologic Unit 05030204, at bridge on Clearport Road (Fairfield County Road 24), in Clearport, 0.5 mi (0.8 km) upstream from Muddy Prairie Run, 8.5 mi (13.7 km) south of Lancaster.

DRAINAGE AREA.--47.3 mi² (122.5 km²).

PERIOD OF RECORD.--Discharge, water years 1978 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
OCT												
05...	1010	4.6	--	--	--	--	--	--	--	--	--	--
MAR												
07...	1200	21	570	8.4	14.0	13.6	68	26	7.6	1.5	270	5
AUG												
04...	1630	6.0	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	65	19	.3	2.0	374	2.1	.050	.35	.030	.040	57	53
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--

SHADE RIVER BASIN

03159536 WEST BRANCH SHADE RIVER AT CHESTER, OH

LOCATION.--Lat 39°06'00", long 81°55'33", Meigs County, Hydrologic Unit 05030202, at bridge on State Route 7, 0.2 mi (0.3 km) upstream from mouth. 0.9 mi (1.4 km) north of Chester.

DRAINAGE AREA.--71.1 mi² (184.2 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
07...	0945	1.3	--	--	--	--	--	--	--	--	--	--
MAR												
15...	1100	26	380	7.8	7.5	12.2	40	11	15	1.6	89	99
AUG												
04...	0945	4.2	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	14	.1	5.5	244	<.10	.020	.08	.020	.020	53	710
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--

03159538 MIDDLE BRANCH SHADE RIVER AT CHESTER, OH

LOCATION.--Lat 39°06'14", long 81°55'24", Meigs County, Hydrologic Unit 05030202, at bridge on State Route 7, 0.4 mi (0.6 km) upstream from mouth 1.1 mi (1.8 km) northwest of Chester.

DRAINAGE AREA.--57.5 mi² (148.9 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)
OCT 07...	0930	.66	--	--	--	--	--	--	--	--	--
MAR 15...	1145	21	425	8.1	8.0	13.0	51	14	15	1.6	170
AUG 04...	1030	4.3	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	80	11	.1	2.1	269	<.10	<.010	.020	.020	84	140
AUG 04...	--	--	--	--	--	--	--	--	--	--	--

SCIOTO RIVER BASIN

03219520 FULTON CREEK NEAR RADNOR, OH

LOCATION.--Lat 40°22'17", long 83°11'20", Delaware County, Hydrologic Unit 05060001, at bridge on State Route 257, 0.2 mi (0.3 km) upstream from mouth, 2.2 mi (3.7 km) southwest of Radnor.

DRAINAGE AREA.--46.9 mi² (121.5 km²).

PERIOD OF RECORD.--Discharge, water years 1956, 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 27...	1000	11	660	8.1	23.0	7.7	88	29	12	3.0	290	67
AUG 25...	1200	.00	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 27...	49	.5	11	449	5.3	.020	.58	.170	.140	12	9
AUG 25...	--	--	--	--	--	--	--	--	--	--	--

03219770 MILL CREEK NEAR BROADWAY, OH

LOCATION.--Lat 40°17'21", long 83°24'05", Union County, Hydrologic Unit 05060001, at bridge on Cotton Slash Road, 1.0 mi (1.6 km) upstream from Otter Run, 3.6 mi (5.8 km) south of Broadway.

DRAINAGE AREA.--66.1 mi² (171.2 km²).

PERIOD OF RECORD.--Discharge, water years 1978, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 27...	1130	11	740	8.1	24.0	7.4	100	38	10	2.7	340	76
AUG 25...	1420	.20	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 27...	32	.5	8.8	509	4.0	.030	.77	.320	.030	7	15
AUG 25...	--	--	--	--	--	--	--	--	--	--	--

03222700 MUD RUN NEAR CALEDONIA, OH

LOCATION.--Lat 40°41'20", long 82°57'45", in T.4 S., R.16 E., Marion County, Hydrologic Unit 05060001, at bridge on Morral-Kirkpatrick Road, 2.6 mi (4.2 km) upstream from mouth, 3.5 mi (5.5 km) north of Caledonia.

DRAINAGE AREA.--16.1 mi² (41.7 km²).

PERIOD OF RECORD.--Discharge, water years 1978, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 22...	1000	1.8	765	8.0	21.0	7.8	92	33	22	1.7	260	170
AUG 25...	0915	.39	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 22...	38	.6	1.1	476	1.2	.030	.57	.020	<.010	61	31
AUG 25...	--	--	--	--	--	--	--	--	--	--	--

03222800 FLAT RUN NEAR CALEDONIA, OH

LOCATION.--Lat 40°37'51", long 82°56'53", in sec. 7, T.5 S., R.17 E., Morrow County, Hydrologic Unit 05060001, at bridge on Marion Johnsville Road, 0.9 mi (1.4 km) upstream from mouth, 1.2 (1.9 km) southeast of Caledonia.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--Discharge, water years 1978, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN												
22...	0900	3.0	630	7.9	21.0	5.2	84	27	14	4.1	300	89
AUG												
25...	0940	.10	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN											
22...	23	.3	8.3	384	.80	.170	.73	.130	.110	15	110
AUG											
25...	--	--	--	--	--	--	--	--	--	--	--

03228690 BLACKLICK CREEK NEAR BRICE, OH

LOCATION.--Lat 39°54'18", long 82°50'01", in sec. 2, T.11 N., R.21 W., Franklin County, Hydrologic Unit 05060001, at bridge on Brice Road, 0.9 mi (1.4 km) south of Brice.

DRAINAGE AREA.--51.6 mi² (133.6 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
07...	1555	9.5	--	--	--	--	--	--	--	--	--	--
MAR												
07...	1015	14	815	7.8	13.0	8.0	66	23	47	4.7	270	84
AUG												
31...	0750	5.0	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	71	.4	2.7	489	.70	3.60	.50	.990	.880	73	190
AUG											
31...	--	--	--	--	--	--	--	--	--	--	--

03229770 WALNUT CREEK NEAR GROVEPORT, OH

LOCATION.--Lat 39°47'56", long 82°53'55", Franklin County, Hydrologic Unit 05060001, on Franklin-Pickaway County line at bridge on London-Lancaster Road, 3.7 mi (6.0 km) south of Groveport.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 12...	1100	48	--	--	--	--	--	--	--	--	--	--
MAR 07...	1015	64	660	8.1	13.5	9.1	68	26	21	2.5	290	84
AUG 15...	1030	9.9	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 12...	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	36	.3	1.0	433	.70	.080	.42	.140	.110	39	59
AUG 15...	--	--	--	--	--	--	--	--	--	--	--

03230230 BIG DARBY CREEK NEAR WEST JEFFERSON, OH

LOCATION.--Lat 39°58'47", long 83°14'57", Madison-Franklin County line, Hydrologic Unit 05060001, at bridge on Hubbard Road, 1.7 mi (2.7 km) northwest of West Jefferson, 7.4 mi (11.9 km) upstream from Little Darby Creek.

DRAINAGE AREA.--239 mi² (619 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 06...	1430	6.0	--	--	--	--	--	--	--	--	--	--
MAR 09...	1210	63	800	8.1	11.0	8.8	73	35	20	2.0	320	100
AUG 17...	1320	10	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 06...	--	--	--	--	--	--	--	--	--	--	--
MAR 09...	42	.6	1.1	506	2.8	.030	.47	.100	.060	33	22
AUG 17...	--	--	--	--	--	--	--	--	--	--	--

03230250 LITTLE DARBY CREEK NEAR IRWIN, OH.

LOCATION.--Lat 40°07'18", long 83°27'22", Union County, Hydrologic Unit 05060001, at bridge on State Route 161, 0.5 mi (0.8 km) upstream from Treacle Creek, 1.6 mi (2.6 km) east of Irwin.

DRAINAGE AREA.--29.4 mi² (76.2 km²).

PERIOD OF RECORD.--Discharge, water years 1978, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
06...	1755	4.4	--	--	--	--	--	--	--	--	--	--
MAR												
09...	1030	9.9	825	8.0	8.5	9.6	86	39	15	1.8	380	100
AUG												
17...	1656	5.2	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	29	.5	3.6	523	2.7	.050	.35	.090	.080	120	51
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--

03230310 LITTLE DARBY CREEK AT WEST JEFFERSON, OH

LOCATION.--Lat 39°57'04", long 83°16'10", Madison County, Hydrologic Unit 05060001, at bridge on Middle Pike, 0.4 mi (0.6 km) north of West Jefferson 7.2 mi (11.6 km) upstream from Big Darby Creek.

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
06...	1552	5.4	--	--	--	--	--	--	--	--	--	--
MAR												
09...	1250	51	750	8.2	11.5	9.2	74	38	13	1.5	330	85
AUG												
17...	1452	6.4	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	31	.6	.5	433	3.0	.050	.55	.030	.020	64	40
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--

03231800 SUGAR CREEK NEAR ROCK MILLS, OH

LOCATION.--Lat 39°28'10", long 83°26'06", Fayette County, Hydrologic Unit 05060003, at bridge on New Martinsburg Road (State Route 70) 1.5 mi (2.4 km) upstream from Paint Creek, 2.3 (3.7 km) northwest of Rock Mills.

DRAINAGE AREA.--78.3 mi² (202.8 km²).

PERIOD OF RECORD.--Discharge, water years 1978, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 05...	1100	.00	--	--	--	--	--	--	--	--	--	--
MAR 08...	1045	30	680	8.1	12.5	9.0	69	39	13	.9	280	66
AUG 19...	1100	.00	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 05...	--	--	--	--	--	--	--	--	--	--	--
MAR 08...	36	.4	1.7	427	6.6	.050	.45	.040	<.010	26	9
AUG 19...	--	--	--	--	--	--	--	--	--	--	--

03232480 CLEAR CREEK NEAR HILLSBORO, OH

LOCATION.--Lat 39°12'45", long 83°33'00", Highland County, Hydrologic Unit 05060003, at bridge on U.S. Highway 50, 2.0 mi (3.2 km) upstream from dam on Rocky Fork Lake, 3.4 mi (5.5 km) east of Hillsboro.

DRAINAGE AREA.--35.4 mi² (91.7 km²).

PERIOD OF RECORD.--Discharge, water years 1978, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
OCT 05...	1230	1.6	--	--	--	--	--	--	--	--	--	--
MAR 08...	1300	17	610	8.4	14.0	11.4	60	32	13	2.1	280	8
AUG 19...	1110	2.8	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 05...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 08...	50	23	.3	1.4	345	1.5	.440	.26	.770	.760	150	62
AUG 19...	--	--	--	--	--	--	--	--	--	--	--	--

03236055 MIDDLE FORK SALT CREEK NEAR RICHMOND DALE, OH

LOCATION.--Lat 39°13"00", long 82°45'46", Ross County, Hydrologic Unit 05060002, at bridge on West Junction Road, 0.2 mi (0.3 km) upstream from Little Salt Creek, 1.7 mi (2.7 km) north of Brocks Corner, 3.0 mi (4.8 km) northwest of Richmond Dale.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
12...	1455	2.9	--	--	--	--	--	--	--	--	--	--
MAR												
14...	1400	33	180	7.5	8.5	12.2	14	6.8	7.7	1.7	38	39
AUG												
16...	1350	.93	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	11	<.1	6.9	118	.30	.020	.08	.010	.010	240	230
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--

03236600 LITTLE SALT CREEK NEAR RICHMOND DALE, OH

LOCATION.--Lat 39°11'27", long 82°46'10", Ross County, Hydrologic Unit 05060002, at bridge on State Route 35, 0.4 mi (0.6 km) west of Brocks Corner, 2.3 mi (3.7 km) upstream from mouth, 2.5 mi (4.0 km) east of Richmond Dale.

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
10...	1345	8.1	--	--	--	--	--	--	--	--	--	--
MAR												
14...	1500	44	220	7.6	8.0	12.3	16	7.4	12	2.2	44	43
AUG												
16...	1245	4.5	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT											
10...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	17	<.1	5.7	113	.50	.190	.21	.080	.060	110	280
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--

03238950 LITTLE MIAMI RIVER NEAR SOUTH CHARLESTON, OH

LOCATION.--Lat 39°49'23", long 83°39'40", Clark County, Hydrologic Unit 05090202, at bridge on Clifton Road, 1.4 mi (2.3 km) west of South Charleston.

DRAINAGE AREA.--9.75 mi² (25.28 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)
NOV 17...	1520	.25	--	--	--	--	--	--	--	--	--
JUN 27...	0930	1.7	750	8.1	20.5	9.2	68	17	42	4.7	350
AUG 26...	1400	.22	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	130	19	.3	2.1	437	<.10	<.010	.090	.070	6	1
AUG 26...	--	--	--	--	--	--	--	--	--	--	--

03241890 LITTLE BEAVER CREEK AT ALPHA, OH

LOCATION.--Lat 39°42'36", long 84°01'44", Greene County, Hydrologic Unit 05090202, at bridge on Factory Road in Alpha, 300 ft (90 m) upstream from mouth, 1.9 mi (3.1 km) southeast of Zimmerman.

DRAINAGE AREA.--26.4 mi² (68.4 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV 17...	1340	23	--	--	--	--	--	--	--	--	--	--
JUN 27...	1245	30	1050	8.0	23.0	9.5	95	36	89	7.2	400	44
AUG 26...	1110	18	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	43	.6	13	703	3.6	.460	.94	2.00	1.90	36	29
AUG 26...	--	--	--	--	--	--	--	--	--	--	--

03241960 LITTLE SUGAR CREEK AT BELLBROOK,OH

LOCATION.--Lat 39°37'51", long 84°04'17", Greene County, Hydrologic Unit 05090202, at bridge on Upper Bellbrook Road, 400 ft (120 m) upstream from mouth, 0.4 mi (0.6 km) southeast of Bellbrook.

DRAINAGE AREA.--12.4 mi² (32.1 km²).

PERIOD OF RECORD.--Discharge, water years 1978 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
NOV 17...	1240	.10	--	--	--	--	--	--	--	--	--	--
JUN 27...	1330	4.5	610	8.3	26.0	10.4	64	31	22	1.9	290	2
AUG 26...	1300	.06	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	62	87	.2	6.9	363	1.7	<.010	.060	<.010	6	1
AUG 26...	--	--	--	--	--	--	--	--	--	--	--

03241990 SUGAR CREEK NEAR BELLBROOK, OH

LOCATION.--Lat 39°37'15", long 84°03'26", Greene County, Hydrologic Unit 05090202, at bridge on Pennewit Road, 0.4 mi (0.6 km) upstream from mouth, 1.3 mi (2.1 km) southeast of Bellbrook.

DRAINAGE AREA.--33.5 mi² (86.8 km²).

PERIOD OF RECORD.--Discharge, water years 1979 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV 17...	1235	1.2	--	--	--	--	--	--	--	--	--	--
JUN 27...	1430	9.6	660	8.2	23.0	9.2	79	30	23	2.1	320	49
AUG 26...	1005	.27	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	33	.2	6.7	472	1.7	.020	.28	.050	.030	13	20
AUG 26...	--	--	--	--	--	--	--	--	--	--	--

03243850 TODD FORK AT CLARKSVILLE, OH

LOCATION.--Lat 39°24'12", long 83°58'31", Clinton County, Hydrologic Unit 05090202, at bridge on George Road, 0.3 mi (0.5 km) northeast of Clarksville.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)
JUN											
28...	1200	22	620	8.1	23.0	9.0	78	28	16	3.0	280
AUG											
25...	1355	4.6	--	--	--	--	--	--	--	--	--
SEP											
06...	1230	1.9	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN											
28...	81	120	.4	5.1	403	5.6	<.010	.310	.300	11	10
AUG											
25...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

03244550 LITTLE MUDDY CREEK NEAR LEBANON,OH

LOCATION.--Lat 39°24'19", long 84°17'07", Warren County, Hydrologic Unit 05090202, at bridge on State Highway 741, 4.5 mi (7.2 km) southwest of Lebanon.

DRAINAGE AREA.--18.3 mi² (47.4 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV												
17...	1300	.00	--	--	--	--	--	--	--	--	--	--
AUG												
03...	1100	.03	610	7.9	25.0	2.1	75	26	20	3.2	330	37
25...	1300	.00	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	31	.3	4.0	370	<.10	.270	.93	.360	.160	57	940
25...	--	--	--	--	--	--	--	--	--	--	--

03244570 TURTLE CREEK AT SOUTH LEBANON, OH

LOCATION.--Lat 39°22'21", long 84°13'47", Warren County, Hydrologic Unit 05090202, at bridge on Mason Road at South Lebanon.

DRAINAGE AREA.--58.2 mi² (150.7 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV 17...	0925	1.9	--	--	--	--	--	--	--	--	--	--
JUN 28...	0845	10	875	8.0	23.0	6.5	100	26	53	4.0	350	67
AUG 25...	1510	1.1	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 28...	8.9	.3	6.9	506	2.9	.220	.98	.770	.710	25	99
AUG 25...	--	--	--	--	--	--	--	--	--	--	--

03244950 O'BANNON CREEK AT LOVELAND, OH

LOCATION.--Lat 39°16'08", long 84°15'21", Clermont County, Hydrologic Unit 05090202, at bridge on State Highway 48, at Loveland.

DRAINAGE AREA.--59.0 mi² (153 km²).

PERIOD OF RECORD.--Discharge, water years 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV 17...	1025	1.1	--	--	--	--	--	--	--	--	--	--
JUN 28...	0950	.84	771	8.2	26.5	6.7	91	42	9.4	1.5	240	220
AUG 25...	1045	.08	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
JUN 28...	8.0	.6	7.0	502	3.1	.030	.37	.060	.060	37	16
AUG 25...	--	--	--	--	--	--	--	--	--	--	--

03261700 LORAMIE CREEK NEAR MCCARTYVILLE,OH

LOCATION.--Lat 40°25'26", long 84°13'28", Shelby County, Hydrologic Unit 05080001, at bridge on Amsterdam Road, 0.6 mi (1.0 km) upstream from Clay Creek, 2.7 mi (4.3 km) northeast of McCartyville.

DRAINAGE AREA.--20.6 mi² (53.4 km²).

PERIOD OF RECORD,--Discharge, water years 1979 to current year, chemical analyses, waters 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
NOV 16...	1105	.53	--	--	--	--	--	--	--	--	--	--
MAR 15...	1552	5.9	930	8.4	11.0	16.5	86	35	43	2.8	300	12
AUG 31...	1405	.81	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	100	86	.3	4.7	594	4.1	.590	.71	.410	.340	41	45
AUG 31...	--	--	--	--	--	--	--	--	--	--	--	--

03265395 LUDLOW CREEK AT LUDLOW FALLS, OH

LOCATION.--Lat 39°59'52", long 84°20'15", Miami County, Hydrologic Unit 05080001, at bridge on State Highway 48 at Ludlow Falls.

DRAINAGE AREA.--62.9 mi² (162.9 km²).

PERIOD OF RECORD.--Discharge, water years 1964-65, 1980 to current year; chemical analyses, water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
NOV 16...	1420	2.3	--	--	--	--	--	--	--	--	--	--
MAR 15...	1105	26	690	8.3	7.0	12.6	75	33	15	1.3	280	8
AUG 31...	1110	.87	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	56	39	.2	2.6	405	6.6	.040	.36	.060	.060	37	7
AUG 31...	--	--	--	--	--	--	--	--	--	--	--	--

Discharge Measurements made at low-flow partial-record stations during water year 1982

Station Number	Station name	Location	Drainage area (mi^2)	Period of Record	Measurements Date	Measurements Discharge (ft^3/s)
03244000	Todd Fork near Roachester, Oh.	Lat 39°20'07", long 84°05'12", Warren County, Hydrologic Unit 05090202, at bridge on State Highway 123, 0.3 mi (0.5 km) downstream from Lick Run, 1.6 mi (2.6 km) southeast Roachester.	219	1952-74# 1980-1983	06-28-83	23.9
					08-25-83	5.87
					09-06-83	2.91

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 1983

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Beaver River basin					
03098350 (c)	Charles Ditch at Boardman, OH	Lat 41°00'43", long 80°39'44", Mahoning County, Hydrologic Unit 05030103, at culvert on Boardman Boulevard, 400 ft (122 m) east of Market Street in Boardman.	0.45	1980-83	5-14-83	13.63	137
		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 (1.3 km) southeast of Bloomingdale.	0.044	1978-83	5-15-83	100.57	8.1
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	1982-83	4- 9-83	10.55	4.5
		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 (91 m) southwest from intersection with U.S. Highway 250 in Georgetown.	1.31	1978-83	5-15-83	94.87	37
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	1978-83	-------	<86.51	<190
03111470	Little Piney Fork at Parlett, OH	Lat 40°18'07", long 80°50'55", Jefferson County, Hydrologic Unit 05030101, at culvert on State Route 151, 0.9 mi (1.4 km) east of Parlett.	1.57	1978-83	5-15-83	94.94	78
03111490	Piney Fork tributary near Piney Fork, OH	Lat 40°16'18", long 80°50'48", Jefferson County, Hydrologic Unit 05030101, at culvert on County Road 12, 0.08 mi (0.13 km) east of Penn Central Railroad crossing on Smithfield-Adena Road, 1.6 mi (2.6 km) northwest of Piney Fork and 3.0 mi (4.8 km) west of Smithfield.	0.44	1978-83	-------	<97.32	<12
		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 (2.7 km) south of Harrisville, and 2.1 mi (3.4 km) west of Pleasant Grove.	0.34	1978-83	4-15-83	101.27	17

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum: Date	Annual maximum: Gage height (feet)	Annual maximum: Discharge (ft^3/s)
		Sunfish Creek basin					
03114240	Wood Run near Woodfield, OH	Lat 39°46'56", long 81°03'21", Monroe County, Hydrologic Unit 05030201, at culvert on State Highway 26, 0.5 mi (0.8 km) upstream from Standing Stone Run, and 3.5 mi (5.6 km) northeast of Woodfield.	0.53	1978-83	4-15-83	96.84	60
		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 (4.3 km) southeast of Antioch.	5.45	1978-83	7-24-83	94.53	720
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 (0.40 km) upstream from mouth, and 1.2 mi (1.9 km) southwest of Bloomfield.	0.13	1978-83	11- 4-82	98.04	22
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 (13 km) southwest of Wingett.	1.52	1978-83	5-29-83	90.93	385
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	1982-83	4- 9-83	12.65	68
		Duck Creek basin					
03115710	Buffalo Run tributary near Dexter City, OH	Lat 39°39'41", long 81°26'58", Noble County, Hydrologic Unit 05030201, at culvert on County Road 2, 1.3 mi (2.1 km) east of Dexter City.	0.19	1978-83	7-24-83	96.64	42
		Muskingum River basin					
03116150 (c)	Orchard Run at Wadsworth, OH	Lat 41°01'52", long 81°44'03", Medina County, Hydrologic Unit 05040001, at culvert on Baldwin Street between High Street and West Street at Wadsworth.	0.44	1980-83	7- 2-83	12.61	100
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	1982-83	4-30-83	12.17	40
03123060 (d)	Cattail Creek at Baltic, OH	Lat 40°27'12", long 81°42'01", Holmes County, Hydrologic Unit 05040001, at culvert on County Road 575, 0.67 mi north of State Route 651, 550 ft upstream of Brush Run, and 0.60 mi north of Baltic.	0.14	1982-83	4- 9-83	10.89	12

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum: Date	Annual maximum: Gage height (feet)	Annual maximum: Discharge (ft^3/s)
03123400 (d)	Dundee Creek at Dundee, OH	Lat 40°35'35", long 81°36'13", Tuscarawas County, Hydrologic Unit 05040001, at culvert on State Highway 93, 0.4 mi (0.6 km) upstream from mouth, 0.5 mi (0.8 km) northeast of Dundee.	0.71	1966-83	5- 2-83	26.85	283
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 (2.7 km) north of Hendrysburg.	1.97	1978-83	5-15-83	98.87	86
03127950	Clear Fork near Jewett, OH	Lat 40°19'28", long 81°01'20", Harrison County, Hydrologic Unit 05040001, at bridge 150 ft (46 m) north of County Road 13, 0.5 mi (0.8 km) east of State Route 9, and 3.1 mi (5.0 km) south of Jewett.	5.45	1978-83	5-15-83	95.72	130
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 (0.8 km) west of State Route 416, and 0.7 mi (1.1 km) east of Wainwright.	0.55	1978-83	4-15-83	98.77	5.0
03144865 (d)	Slim Creek at Kirkersville, OH	Lat 39°56'51", long 82°36'13", Licking County, Hydrologic Unit 05040006, at culvert on the Interstate 70-U.S. Highway 40 connector, .20 mi west of State Route 158, 1.17 mi upstream of a reservoir feeder to Buckeye Lake, and .85 mi south of Kirkersville.	0.13	1982-83	4-30-83	12.66	40
03148300	Moxahala Creek at Roseville, OH	Lat 39°48'38", long 82°04'13", Muskingum County, Hydrologic Unit 05040004, at pumping station about 2,500 ft (762 m) downstream from First Street bridge in Roseville.	80.6	1964-83	4-10-83	11.24	1,920
03148395 (d)	Claypit Creek near Roseville, OH	Lat 39°50'28", long 82°04'15", Muskingum County, Hydrologic Unit 05040004, at culvert on State Route 93, 2.90 mi south of U.S. Highway 22, 1.13 mi upstream of Moxahala Creek, and 1.75 mi north of Roseville.	2.25	1982-83	4-14-83	13.68	62
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	1982-83	5- 2-83	17.94	504
		Hocking River basin					
03158102 (d)	Wolfkiln Run at Haydenville, OH	Lat 39°28'35", long 82°18'51", Hocking County, Hydrologic Unit 05030204, at culvert on U.S. Highway 33, 1.54 mi southeast of State Route 595, 500 ft upstream of an unnamed tributary to the Hocking River, and .9 mi southeast of Haydenville.	0.88	1982-83	6-17-83	15.55	183
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 (1.3 km) west of U.S. Highway 33, and 2.3 mi (3.7 km) south of Doanville.	1.09	1978-83	5-22-83	96.15	100
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 (61 m) above mouth, 4.5 mi (7.2 km) north of Athens, and 3.0 mi (4.8 km) southeast of Chauncey.	1.48	1978-83	-------	<94.16	<78

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
03159503 (c)	Home Ditch on STP road at Athens, OH	Lat 39°20'06", long 82°04'43", Athens County, Hydrologic Unit 05030204, at culvert on Sewage Treatment Plant Road, 0.15 mi (0.24 km) south of U.S. 50 and 0.2 mi (0.32 km) east of U.S. Route 33 at Athens.	0.37	1980-83	6- 3-83	11.97	40
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	1982-83	4- 8-83	11.26	19
		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 (1.3 km) east of State Route 328, and 3.0 mi (4.8 km) east of New Plymouth.	0.30	1978-83	5- 3-83	99.10	125
		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 (0.55 km) west of Charley Creek Road, and 1.25 mi (2.00 km) northeast of Burlington.	0.73	1978-83	5- 1-83	13.24	72
		Scioto River basin					
03219849 (d)	Scott Creek near Marysville, OH	Lat 40°12'42", long 83°18'15", Union County, Hydrologic Unit 05060001, at culvert on U.S. Highway 33, 1.12 mi upstream of Mill Creek, and 3.0 mi southeast of Marysville.	4.03	1982-83	4-30-83	14.23	185
03223330 (d)	March Run near West Point, OH	Lat 40°37'55", long 82°45'56", Morrow County, Hydrologic Unit 05060001, at culvert on State Route 19, .8 mi upstream of Whetstone creek, .5 mi south of West Point - Bellville Road, and 1.15 mi southeast of West Point.	0.18	1982-83	5- 2-83	12.02	30
03226860 (c)	Rush Run near Worthington, OH	Lat 40°05'41", long 82°59'56", Franklin County, Hydrological Unit 05060001, at culvert on G.E. Drive, 50 ft (15 m) west of Huntley Road at Worthington.	0.60	1980-83	6-28-83	12.63	38
03226890	Turkey Run at Upper Arlington, OH	Lat 40°02'10", long 83°04'06", Franklin County, Hydrologic Unit 05060001, at culvert on Lytham Road at Upper Arlington.	0.90	1972-83	5-22-83	12.86	52
03228900	Casto Creek at Columbus, Oh	Lat 40°04'54", long 82°55'37", Franklin County, Hydrologic Unit 05060001, at culvert on K-Mart service road east of Westerville Road at Columbus.	1.96	1983	7-17-83	15.82	599
03235080 (d)	Bull Creek near Adelphi, OH	Lat 39°27'11", long 82°46'46", Ross County, Hydrologic Unit 05060002, at culvert on State Route 180, 1.9 mi (3.1 km) southwest of Adelphi.	3.13	1978-83	7-17-83	79.48	1560

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
03236090	South Branch Little Salt Creek near Jackson, OH	Lat 39°00'50", long 82°39'01", Jackson County, Hydrologic Unit 05010002, at culvert on State Highway 124, 300 ft (90 m) east of State Highway 139, and 2.7 mi (4.3 km) south of Jackson.	1.28	1978-83	5- 4-83	94.09	140
03237095	Devers Run at Lucasville, OH	Lat 38°52'54", long 83°01'13" Scioto County, Hydrologic Unit 05060002, at culvert on State Highway 104, 300 ft (91 m) north of State Highway 348, and 1.2 mi (1.9 km) northwest of Lucasville.	1.22	1978-83	4- 8-83	93.79	165
03237120 (d)	Stone Branch near Peebles, OH	Lat 38°57'03", long 83°22'29", Adams County, Hydrologic Unit 05060002, at culvert on State Route 32, 700 ft upstreams from Plum Run, 2.72 mi northeast of State Route 41, and 1.10 mi east of Peebles.	0.85	1982-83	5-22-83	14.13	127
03237198 (d)	Duncan Hollow Creek near McDermott, OH	Lat 38°52'29", long 83°03'37", Scioto County, Hydrologic Unit 05060002, at culvert on State Route 348, 2.23 mi west of State Route 104, .78 mi upstream from Duck Run, and 2.75 mi north of McDermott.	0.51	1982-83	4- 8-83	12.72	63
03237315 (d)	Elk Fork at Winchester, OH	Lat 38°56'49", long 83°37'21", Adams County, Hydrologic Unit 05090201, at culvert on State Route 32, 3.08 mi west of State Route 247 in Seaman, 1.72 mi upstream from West Fork Ohio Brush Creek, and .82 mi east of Winchester.	6.45	1982-83	5-22-83	18.42	749
03238285 (d)	Sugar Run near New Market, OH	Lat 39°06'30", long 83°40'36", Highland County, Hydrologic Unit 05090201, at culvert on U.S. Highway 62, .55 mi south of State Route 136, 900 ft upstream from an unnamed tributary, .62 mi upstream from East Fork White Oak Creek, and 1.97 mi south of New Market.	1.37	1982-83	4-30-83	17.22	412
		Four Mile Creek basin					
03238790 (c)	Anderson Ditch at Maycliff Place at Cincinnati, OH	Lat 39°04'14", long 84°22'51", Hamilton County, Hydrological Unit 05090201, at culvert on Maycliff Place, 0.25 mi (0.40 km) south of Salem Road at Cincinnati.	0.07	1980-83	5- 2-83	12.46	37
		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	1982-83	7-18-83	16.12	246
		Mill Creek basin					
03258520 (c)	Amberly Ditch on Hudson Parkway near Cincinnati, OH	Lat 39°11'31", long 84°25'44", Hamilton County, Hydrologic Unit 05090203, at culvert on Hudson Parkway 900 ft (274 m) east of Ridge Road in Amberly Village near Cincinnati.	0.14	1980-83	6-17-83	12.02	42

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
03259050 (c)	Wyoming Ditch on Oregon Trail at Wyoming, OH	Lat 39°14'00", long 84°29'26", Hamilton County, Hydrologic Unit 05090203, at culvert on Oregon Trail, 800 ft (244 m) south of Fleming Road at Wyoming.	0.03	1980-83	5- 2-83	12.66	44
		Rapid Run basin					
03260095 (c)	Delhi Ditch on Cannas Road near Cincinnati OH	Lat 39°05'48", long 84°37'23", Hamilton County, Hydrologic Unit 05090203, at culvert on Cannas Road, 0.25 mi (0.40 km) west of Anderson Ferry Road near Cincinnati.	0.16	1980-83	9-11-83	13.81	99
		Great Miami River basin					
03263171 (d)	Harte Run near Greenville, OH	Lat 40°08'41", long 84°36'41", Darke County, Hydrologic Unit 05080001, at culvert on U.S. Highway 127, 1.31 mi north of State Route 121, .45 mi upstream of an unnamed tributary to Boyd Creek, and 3.15 mi north of Greenville.	0.86	1982-83	6-30-83	12.23	41
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	1982-83	5- 2-83	12.22	110
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 (0.5 km) north of State Highway 725 at Camden.	0.33	1978-83	4-30-83	18.80	247

c operated as an urban hydrology site where additional data may be available.
d operated as a rural flood volume site where additional data may be available.
e estimate

ASHLAND COUNTY

405303082170700. Local number, AS-2.
LOCATION.--Lat 40°53'03:, long 82°17'07", Hydrologic Unit 05040002, Jerome Fork well field 2 mi (3.2 km) northeast of Ashland.
Owner: Ashland Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 64 ft (19.5 m), cased.
DATUM.--Altitude of land-surface datum is 980 ft (300 m), from topographic map. Measurng point: Floor of instrument shelter 2.00 ft (0.610 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.22 ft (10.430 m) March 17, 1972; minimum daily low, 13.20 ft (4.023 m) May 15, 18, 1967.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 27.89 ft (8.501 m); Mar. 5; minimum daily low, 23.97 ft (7.306 m) Oct. 10.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.27	25.45	26.85	27.46	27.42	27.72	26.49	26.79	25.64	26.99	27.45	27.76
2	24.23	25.52	26.88	27.39	27.28	27.78	26.41	26.82	25.62	26.99	27.53	27.77
3	24.19	25.59	26.90	27.34	27.29	27.82	26.38	26.73	25.60	27.01	27.60	27.78
4	24.17	25.60	26.94	27.33	27.30	27.87	26.41	26.64	25.67	27.06	27.69	27.85
5	24.14	25.68	26.97	27.29	27.30	27.89	26.32	26.55	25.75	27.08	27.70	27.84
6	24.12	25.71	27.04	27.26	27.22	27.86	26.25	26.53	25.85	27.06	27.75	27.83
7	24.07	25.77	27.08	27.26	27.29	27.81	26.26	26.43	25.96	27.02	27.82	27.83
8	24.02	25.87	27.21	27.21	27.31	27.75	26.22	26.31	26.10	26.95	27.83	27.85
9	23.99	25.91	27.28	27.15	27.27	27.69	26.17	26.29	26.25	26.88	27.84	27.79
10	23.97	25.96	27.28	27.08	27.27	27.61	26.18	26.20	26.36	26.83	27.84	27.75
11	24.01	26.01	27.33	27.07	27.34	27.55	26.21	26.04	26.50	26.80	27.87	27.73
12	24.09	26.12	27.37	27.11	27.40	27.48	26.22	25.95	26.56	26.87	27.87	27.74
13	24.16	26.19	27.41	27.08	27.41	27.42	26.22	25.84	26.53	26.94	27.88	27.74
14	24.24	26.24	27.45	27.09	27.41	27.35	26.22	25.80	26.51	27.01	27.88	27.73
15	24.33	26.29	27.47	27.11	27.44	27.28	26.21	25.66	26.50	27.07	27.88	27.72
16	24.43	26.34	27.55	27.10	27.48	27.22	26.17	25.56	26.48	27.13	27.89	27.69
17	24.51	26.39	27.56	27.13	27.53	27.12	26.21	25.56	26.53	27.17	27.86	27.70
18	24.59	26.43	27.58	27.15	27.53	27.05	26.27	25.54	26.58	27.13	27.84	27.71
19	24.64	26.47	27.62	27.17	27.59	26.97	26.30	25.49	26.61	27.08	27.84	27.72
20	24.67	26.50	27.66	27.17	27.61	26.94	26.39	25.42	26.65	27.04	27.81	27.71
21	24.76	26.55	27.70	27.13	27.65	26.87	26.44	25.36	26.75	27.01	27.80	27.69
22	24.78	26.57	27.71	27.12	27.65	26.84	26.47	25.34	26.76	26.96	27.77	27.67
23	24.85	26.62	27.73	27.18	27.71	26.85	26.51	25.35	26.81	26.93	27.76	27.66
24	24.92	26.67	27.76	27.24	27.73	26.77	26.56	25.36	26.87	26.87	27.73	27.65
25	24.99	26.70	27.79	27.30	27.76	26.72	26.58	25.48	26.90	26.93	27.70	27.61
26	25.07	26.68	27.80	27.34	27.76	26.70	26.65	25.62	26.89	27.01	27.75	27.59
27	25.13	26.67	27.73	27.38	27.73	26.59	26.69	25.72	26.90	27.08	27.74	27.58
28	25.20	26.63	27.63	27.41	27.68	26.57	26.74	25.71	26.96	27.16	27.72	27.57
29	25.27	26.74	27.67	27.43	---	26.54	26.74	25.71	27.00	27.23	27.72	27.55
30	25.31	26.79	27.67	27.43	---	26.51	26.79	25.69	27.02	27.30	27.74	27.61
31	25.37	---	27.54	27.44	---	26.51	---	25.67	---	27.37	27.75	---
MAX	25.37	26.79	27.80	27.46	27.76	27.89	26.79	26.82	27.02	27.37	27.89	27.85

WTR YR 1983 MEAN 26.77 HIGH 23.97 LOW 27.89

ASHLAND COUNTY--Continued

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 (0.2 m), depth 78 ft (23.8 m), cased.
DATUM.--Altitude of land-surface datum is 990 ft (302 m), from topographic map. Measuring point: Floor of instrument shelter 5.00 ft (1.524 m) 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 (9.769 m) Oct. 22, 1980; minimum daily low, 3.10 ft (0.945 m) above land surface Feb. 23, 1978.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 28.77 ft (8.769 m) Sept. 11; minimum daily low, 8.60 ft (2.621 m) Dec. 25.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.07	18.65	11.49	9.16	17.45	19.63	17.33	19.52	12.62	21.22	13.53	24.47
2	20.26	19.14	10.93	14.74	17.42	13.85	15.62	23.21	12.54	21.36	14.29	24.59
3	19.01	19.50	10.44	16.09	15.87	12.49	13.79	23.68	12.39	14.05	13.45	24.73
4	18.24	19.74	10.17	16.51	13.53	11.48	15.70	23.81	12.11	18.27	13.33	24.74
5	17.70	16.08	9.92	16.78	12.57	19.14	16.98	23.89	10.96	19.78	12.78	23.77
6	17.36	14.34	15.16	16.92	12.59	22.86	23.03	22.47	10.36	14.30	12.87	24.02
7	16.93	13.38	11.42	16.73	16.37	22.99	24.41	23.92	10.11	13.62	12.35	24.43
8	16.69	12.62	10.56	12.80	16.56	18.52	20.29	24.49	9.97	12.45	12.43	24.77
9	19.06	12.13	10.18	12.60	12.55	19.00	24.35	25.57	15.11	12.58	12.79	28.45
10	18.26	11.67	15.64	16.43	14.79	19.70	24.40	21.49	10.27	12.69	12.85	28.76
11	17.39	11.12	16.84	17.12	12.54	23.79	23.78	25.11	10.02	13.92	12.92	28.77
12	21.51	10.76	16.92	17.62	12.86	23.96	17.31	25.11	13.12	17.51	13.11	27.89
13	21.67	16.58	16.21	17.74	14.84	24.00	21.26	21.60	16.70	18.98	13.13	24.76
14	16.85	17.44	17.14	16.81	16.83	19.88	21.79	23.64	18.61	19.92	12.07	24.90
15	15.58	16.69	17.41	19.71	17.33	20.27	23.08	19.34	19.88	20.61	15.50	24.18
16	14.80	17.76	17.19	19.61	12.59	20.46	23.57	18.41	20.22	21.15	17.36	23.43
17	14.15	18.59	17.04	19.05	15.96	20.59	16.09	17.65	21.87	21.67	18.46	22.75
18	13.44	19.21	11.66	17.93	16.09	20.26	16.84	19.22	22.04	20.45	19.79	22.01
19	16.06	22.07	10.11	20.62	17.19	17.80	18.19	15.90	15.59	19.22	20.57	22.53
20	17.16	22.07	13.22	16.03	17.59	16.22	23.82	15.15	14.14	18.30	21.24	23.10
21	17.87	21.72	15.67	17.92	17.61	19.73	24.15	14.81	13.07	17.08	21.68	23.62
22	18.96	21.35	15.87	18.53	11.95	17.92	20.03	14.30	15.57	16.69	22.12	24.11
23	18.50	20.88	10.47	13.32	10.71	22.87	19.03	13.98	20.22	16.16	22.51	24.33
24	17.42	20.78	8.81	17.14	14.03	23.65	17.43	13.53	16.38	15.52	22.85	23.84
25	18.55	20.58	8.60	19.18	16.54	23.93	23.31	13.32	19.92	14.39	23.18	23.30
26	19.49	15.68	8.95	19.34	20.23	23.97	24.18	13.20	20.89	13.57	23.46	23.52
27	19.74	17.34	12.52	18.89	20.30	24.13	24.56	13.11	19.69	12.83	23.61	23.86
28	19.97	17.82	16.59	18.79	20.14	24.30	24.89	12.55	21.41	12.95	26.05	24.15
29	20.15	17.78	14.29	18.77	---	18.99	25.05	11.31	16.31	16.27	23.75	24.39
30	16.43	12.56	10.54	18.62	---	21.16	25.10	12.17	19.59	15.40	23.95	24.47
31	17.28	---	9.52	17.12	---	16.37	---	14.05	---	13.18	24.22	---
MAX	21.67	22.07	17.41	20.62	20.30	24.30	25.10	25.57	22.04	21.67	26.05	28.77

WTR YR 1983 MEAN 17.94 HIGH 8.60 LOW 28.77

ATHENS COUNTY

392004082071600. Local number, AT-2A.
LOCATION.--Lat 39°20'04", long 82°07'16", Hydrologic Unit 05030204, 1.1 mi (1.8 km) west of city hall in Athens. Owner: City of Athens.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Unused drilled water-table well, diameter 12 in (0.3 m), depth 35.5 ft (10.8 m), cased.
DATUM.--Altitude of land-surface datum is 641.81 ft (195.624 m). Measuring point: Floor of instrument shelter, 5.80 ft (1.768 m) above land-surface datum.
REMARKS.--Prior to water year 1978, well depth reported as 43 ft (13.1 m).
PERIOD OF RECORD.--March 1954 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.25 ft (6.172 m) Sept. 29, 1982; minimum daily low, 1.05 ft (0.320 m) May 25, 28, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 6, 1982	20.09	Apr. 12, 1983	17.10

GROUND-WATER RECORDS

ATHENS COUNTY--Continued

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 (0.365 m), depth 48 ft (14.63 m), cased.
DATUM.--Altitude of land surface datum is 640 ft (195.1 m), from topographic map. Measuring point: floor of instrument shelter, 4.75 ft (1.448 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--July 1982 to September 1982.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.45 ft (6.538 m) July 25, 1982; Minimum daily low 12.07 ft (3.679 m) May 5, 1983.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 21.26 ft (6.480 m) Nov. 10; minimum daily low, 12.07 ft (3.679 m) May 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.02	20.39	19.65	17.70	17.75	19.84	19.75	17.25	15.94	18.24	19.53	19.78
2	20.83	20.86	19.71	18.21	17.99	18.98	19.71	16.34	16.54	18.34	19.42	19.56
3	20.93	20.86	19.87	18.49	17.59	19.42	19.30	15.33	16.61	18.45	19.14	19.55
4	20.97	20.86	20.05	18.52	17.71	19.53	18.88	13.83	16.45	18.49	19.21	19.55
5	21.14	20.37	20.18	17.58	17.57	19.15	18.79	12.07	16.51	18.13	19.20	19.52
6	19.98	20.50	20.18	17.35	17.57	18.53	18.83	12.87	16.77	18.73	19.38	19.83
7	20.79	20.53	18.76	17.24	17.83	18.50	18.78	13.35	16.78	18.94	19.48	19.55
8	20.94	20.64	18.89	17.26	18.03	19.30	18.26	14.05	16.41	19.06	19.56	19.50
9	20.81	21.04	19.42	17.30	18.17	19.20	17.39	14.12	16.59	19.09	19.59	19.45
10	20.88	21.26	19.54	17.31	18.12	19.78	16.40	14.01	16.74	19.17	19.59	19.93
11	21.05	21.12	19.79	17.31	18.23	19.91	15.74	14.71	16.88	19.35	19.34	19.75
12	21.19	21.05	19.82	17.32	18.39	19.97	15.87	14.79	17.01	19.39	19.35	19.78
13	21.03	20.29	18.60	17.37	17.63	20.02	15.91	15.81	17.11	19.54	19.76	19.56
14	20.86	20.93	18.38	17.41	17.41	20.18	15.73	16.10	17.68	19.12	19.43	19.58
15	21.02	19.90	18.28	17.45	18.26	20.31	15.08	16.32	17.85	19.55	19.35	19.94
16	21.14	21.04	18.13	17.51	18.50	20.41	14.48	16.28	17.94	19.74	19.41	19.84
17	21.17	21.24	17.29	17.57	18.50	20.17	15.04	16.42	18.01	19.81	19.45	19.72
18	21.11	21.01	17.27	17.64	18.27	19.77	14.62	16.55	17.79	19.82	19.51	19.67
19	20.91	21.03	17.21	17.72	17.42	19.66	14.76	16.55	17.86	19.45	19.53	19.57
20	21.02	20.90	16.98	17.77	17.98	20.09	15.64	15.75	17.44	19.34	19.54	19.60
21	20.83	20.94	16.66	17.80	18.25	20.23	16.11	16.14	17.42	19.45	19.51	19.66
22	20.94	20.94	16.79	17.81	18.50	20.32	16.43	16.14	18.04	19.58	19.54	19.67
23	20.74	21.05	17.74	17.80	18.81	20.41	16.57	15.44	18.19	19.66	19.59	19.70
24	20.87	21.06	17.72	17.69	19.10	20.48	16.39	14.70	17.82	19.62	19.76	19.73
25	20.92	19.52	17.71	18.55	19.04	20.51	17.28	15.06	17.89	19.43	19.91	19.74
26	21.02	20.07	17.64	18.61	19.31	20.44	17.46	15.54	18.24	19.54	19.68	19.72
27	21.08	20.39	17.09	18.00	19.56	20.35	17.79	15.55	18.41	19.56	19.88	19.76
28	20.56	20.34	17.09	17.98	19.78	20.22	17.46	15.35	18.50	19.59	19.59	19.80
29	20.80	20.37	15.95	17.96	---	20.12	17.15	15.68	18.56	19.56	19.59	19.83
30	19.52	19.25	16.06	18.26	---	19.98	17.31	15.68	18.07	19.53	19.45	19.83
31	19.09	---	17.41	17.90	---	19.76	---	15.81	---	19.52	19.44	---
MAX	21.19	21.26	20.18	18.61	19.78	20.51	19.75	17.25	18.56	19.82	19.91	19.94

WTR YR 1983 MEAN 18.64 HIGH 12.07 LOW 21.26

AUGLAIZE COUNTY

403233083574500. Local number, AU-3.
LOCATION.--Lat 40°32'33", long 83°57'45", Hydrologic Unit 05080001, 1.0 mi (1.6 km) southwest of New Hampshire.
Owner: State of Ohio.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in (0.3 m), depth 380 ft (115.8 m), cased to 52 ft (15.8 m).
DATUM.--Altitude of land-surface datum is 1,020 ft (311 m), from topographic map. Measuring point: Floor of instrument shelter, 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--December 1974 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 11.87 ft (3.618 m) Feb. 7-8, 1977; minimum daily low, 5.18 ft (1.579 m) Apr. 14, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 1, 1982	8.50	Apr. 28, 1983	6.05

BUTLER COUNTY

391805084261800. Local number, BU-9.
LOCATION.--Lat 39°18'05", long 84°26'18", Hydrologic Unit 05090203, 2.5 mi (4.0 km) northwest of Sharonville.
Owner: Olinkraft, Inc.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m) depth 85 ft (26 m), cased.
DATfM.--Altitude of land-surface datum is 586.89 ft (178.884 m). Measuring point: Floor of instrument shelter, 4.66 ft (1.420 m) above land surface datum.
REMARKS.--Prior to water year 1978, well diameter reported as 26 in (0.66 m).
PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.40 ft (7.437 m) Mar. 16, 1954; minimum daily low, 4.40 ft (1.341 m) Aug. 3, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4, 1982	13.64	Apr. 29, 1983	10.86	Sept. 30, 1983	11.97

BUTLER COUNTY--Continued

393202084241500. Local number, BU-15.
LOCATION.--Lat 39°32'02", long 84°24'15", Hydrologic Unit 05080002, at Hook Field (municipal airport) at Middletown.
Owner: City of Middletown.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 23 ft (7.0 m) cased.
DATUM.--Altitude of land-surface datum is 641 ft (195 m), from topographic map. Measuring point: Floor of instrument shelter 3.50 ft (1.067 m) above land-surface datum.
REMARKS.--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 (4.450 m) Jan. 26, 1981; minimum daily low, 0.06 ft (0.018 m) Feb. 25, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 5, 1982	13.25	Apr. 28, 1983	10.22

BUTLER COUNTY--Continued

391904084371800. Local number, BU-12.
LOCATION.--Lat 39°19'04", long 84°37'18", Hydrologic Unit 05080002. Cincinnati well field 1.5 mi (2.4 km) east of Ross.
Owner: City of Cincinnati.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 157 ft (47.9 m), cased.
DATUM.--Altitude of land-surface datum is 547.73 ft (166.948 m). Measuring point: Floor of instrument shelter 7.80 ft (2.377 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--April 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 22.85 ft (6.965 m) Oct. 10, 1982; Mimimum daily low, 2.00 ft (0.610 m) above land surface, May 24, 25, 1968.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 22.85 ft (6.965 m) Oct. 10; minimum daily low, 6.55 ft (1.996 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.30	22.50	19.65	17.00	19.10	18.30	19.80	17.35	17.15	18.55	20.30	20.70
2	22.35	22.45	19.90	17.40	18.20	17.90	19.20	6.90	18.35	18.00	20.10	20.80
3	22.40	22.00	19.75	17.70	17.10	19.35	18.95	6.55	18.45	17.75	20.15	20.85
4	22.40	21.65	19.70	17.95	16.35	19.75	18.35	8.40	18.40	17.10	20.15	20.95
5	20.50	21.70	19.75	18.15	16.60	19.95	18.00	10.55	18.50	17.90	20.25	21.00
6	21.40	21.80	19.85	18.35	17.35	20.00	17.95	12.40	18.60	18.55	20.25	21.05
7	22.60	21.85	19.90	18.65	17.75	19.95	18.10	12.70	18.65	18.25	20.25	20.00
8	22.75	21.85	20.00	18.75	18.05	19.50	17.65	13.90	18.55	18.50	20.75	20.85
9	22.80	20.80	20.45	18.80	18.40	19.40	16.05	14.80	18.65	18.80	20.85	21.05
10	22.85	20.75	20.55	19.20	17.90	19.45	15.70	15.40	18.90	19.00	20.85	21.10
11	22.75	22.40	20.75	19.10	17.75	19.30	16.20	15.95	18.95	19.25	20.75	21.15
12	21.95	22.25	20.85	19.10	17.80	19.20	16.60	16.20	19.00	19.15	20.25	21.15
13	22.00	22.05	20.90	19.30	17.85	19.25	16.85	16.50	19.35	19.50	20.25	20.40
14	22.00	21.75	20.65	19.55	18.55	19.30	16.90	16.75	19.35	19.55	20.40	20.25
15	21.65	21.85	20.65	19.65	18.65	18.95	15.30	16.75	19.80	19.80	20.65	20.25
16	21.75	22.00	20.50	19.75	18.85	19.05	14.95	15.75	19.40	19.85	20.75	20.05
17	21.80	22.15	19.00	19.80	18.85	19.20	15.60	16.30	18.85	19.85	21.00	19.95
18	22.25	22.15	18.45	18.65	18.15	19.15	16.25	16.70	18.85	19.90	21.15	19.90
19	22.30	21.30	18.30	18.60	18.15	19.10	16.70	17.25	18.75	18.45	21.45	20.75
20	22.35	21.60	19.50	18.65	18.20	19.10	17.10	17.40	19.05	18.30	21.15	19.95
21	22.35	21.15	19.60	18.65	18.80	18.90	17.40	17.55	18.35	19.75	21.00	19.95
22	21.90	21.35	19.75	18.45	18.85	18.50	17.65	17.55	18.35	19.80	20.90	19.90
23	21.90	21.25	19.80	17.45	18.90	18.15	17.90	17.00	18.55	19.80	21.15	19.90
24	21.90	20.95	19.70	17.00	18.95	18.40	18.05	17.10	18.70	19.85	20.90	20.00
25	22.35	20.65	19.95	16.90	18.35	17.45	18.50	17.35	18.85	19.80	21.05	20.05
26	22.40	20.45	19.70	17.00	18.30	17.55	18.75	17.95	19.00	19.30	20.85	20.15
27	22.10	20.40	19.15	17.70	18.30	17.55	18.75	18.15	19.50	19.45	20.80	20.15
28	22.05	20.35	15.65	18.05	18.95	18.80	18.75	18.30	19.25	20.00	19.75	20.20
29	22.05	20.20	14.95	18.20	---	19.20	18.65	18.35	19.05	20.05	19.60	20.50
30	22.10	19.50	15.70	18.25	---	19.50	18.65	18.05	18.90	20.15	20.40	20.65
31	22.10	---	16.45	18.45	---	19.90	---	17.90	---	20.15	20.60	---
MAX	22.85	22.50	20.90	19.80	19.10	20.00	19.80	18.35	19.80	20.15	21.45	21.15

WTR YR 1983 MEAN 19.21 HIGH 6.55 LOW 22.85

BUTLER COUNTY--Continued

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, diamter 6 in (0.15 m), depth 176 ft (53.6 m), cased.
DATUM.--Altitude of land-surface datum is 572.54 ft (174.510 m), measuring point: Floor of instrument shelter 1.93 ft (0.588 m) 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 (9.501 m) Jan. 13, 1977; minimum daily low, 11.45 ft (3.490 m) June 6, 1947.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 30.52 ft (9.302 m) Sept. 30; minimum daily low, 23.78 ft (7.248 m) May 20-22.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.50	30.20	29.58	28.45	28.63	28.78	28.87	26.84	24.28	26.46	28.26	29.80
2	29.53	30.21	29.57	28.30	28.55	28.77	28.89	26.25	24.34	26.48	28.32	29.85
3	29.55	30.17	29.43	28.35	28.44	28.81	28.87	25.68	24.40	26.50	28.37	29.89
4	29.58	30.21	29.42	28.38	28.42	28.85	28.78	25.14	24.46	26.53	28.42	29.93
5	29.62	30.21	29.36	28.40	28.41	28.89	28.74	24.59	24.51	26.56	28.49	29.97
6	29.60	30.17	29.35	28.44	28.39	28.90	28.73	24.30	24.60	26.60	28.54	30.01
7	29.53	30.18	29.40	28.38	28.41	28.89	28.70	24.18	24.67	26.66	28.60	30.04
8	29.61	30.20	29.47	28.37	28.36	28.78	28.55	24.14	24.76	26.68	28.65	30.08
9	29.62	30.25	29.47	28.35	28.39	28.67	28.47	24.11	24.85	26.75	28.71	30.13
10	29.56	30.28	29.36	28.33	28.43	28.73	28.30	24.14	24.93	26.83	28.77	30.17
11	29.58	30.31	29.38	28.33	28.47	28.76	28.19	24.12	25.00	26.88	28.80	30.21
12	29.63	30.31	29.39	28.36	28.47	28.79	27.94	24.07	25.07	26.96	28.80	30.24
13	29.63	30.32	29.47	28.37	28.49	28.81	27.84	24.08	25.15	27.02	28.86	30.28
14	29.61	30.14	29.52	28.37	28.51	28.81	27.64	24.19	25.23	27.09	28.94	30.31
15	29.68	30.11	29.53	28.37	28.52	28.87	27.50	24.27	25.34	27.17	29.00	30.34
16	29.68	30.17	29.54	28.38	28.48	28.91	27.35	24.26	25.44	27.26	29.06	30.36
17	29.72	30.21	29.39	28.38	28.54	28.80	27.18	24.00	25.51	27.33	29.12	30.37
18	29.78	30.19	29.30	28.41	28.57	28.68	27.04	23.91	25.61	27.38	29.18	30.35
19	29.82	30.16	29.27	28.41	28.58	28.82	26.92	23.87	25.70	27.40	29.24	30.38
20	29.85	30.15	29.16	28.54	28.61	28.85	26.88	23.78	25.76	27.45	29.30	30.41
21	29.88	30.17	29.22	28.56	28.63	28.86	26.75	23.78	25.76	27.51	29.35	30.42
22	29.86	30.13	29.23	28.66	28.61	28.87	26.72	23.78	25.83	27.55	29.41	30.41
23	29.85	30.08	29.25	28.69	28.60	28.86	26.73	23.79	25.93	27.61	29.45	30.41
24	29.85	29.95	29.31	28.60	28.63	28.77	26.74	23.83	26.00	27.65	29.49	30.43
25	29.83	29.85	29.36	28.64	28.66	28.84	26.76	23.86	26.10	27.70	29.56	30.43
26	29.92	29.79	29.38	28.64	28.68	28.85	26.83	23.92	26.18	27.74	29.59	30.45
27	30.01	29.76	29.37	28.63	28.71	28.85	26.83	23.97	26.27	27.79	29.65	30.45
28	30.06	29.74	29.27	28.53	28.75	28.88	26.90	24.00	26.36	27.84	29.67	30.47
29	30.11	29.63	29.03	28.57	---	28.88	26.88	24.07	26.43	27.91	29.69	30.50
30	30.13	29.59	28.72	28.52	---	28.88	26.82	24.13	26.45	27.96	29.75	30.52
31	30.17	---	28.57	28.63	---	28.90	---	24.20	---	28.12	29.79	---
MAX	30.17	30.32	29.58	28.69	28.75	28.91	28.89	26.84	26.45	28.12	29.79	30.52

WTR YR 1983 MEAN 28.23 HIGH 23.78 LOW 30.52

BUTLER COUNTY--Continued

392021084340300. Local number, BU-56.
LOCATION.--Lat 39°20'21", long 84°34'03", Hydrologic Unit 05080002, 1.3 mi (2.1 km) east of the Great Miami River in Fairfield.
Owner: Hamilton Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 5 in (0.13 m), depth 58 ft (17.7 m), cased.
DATUM.--Altitude of land-surface datum is 583.62 ft (177.887 m). (Levels by Miami Conservancy District.)
Measuring point: Floor of instrument shelter, 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--November 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 39.11 ft (11.921 m) Feb. 25-26, 1977; minimum daily low, 26.81 ft (8.172 m) Apr. 10, 1975.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 36.53 ft (11.134 m) Oct. 5; minimum daily low, 30.07 ft (9.165 m) May 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.39				---	35.67	34.78	33.60	30.21		34.44	36.03
2	36.43				---	35.69	34.73	33.50	30.23		---	36.03
3	36.47				---	35.70	34.70	33.32	30.27		---	36.08
4	36.51				---	35.72	34.69	33.14	30.30		---	36.13
5	36.53				---	35.74	34.65	32.92	30.36		---	36.15
6	---				---	35.76	34.62	32.68	30.43		---	36.21
7	---				---	35.76	34.59	32.44	30.51		---	36.25
8	---				---	35.76	34.58	32.24	30.61		---	36.31
9	---				35.57	35.76	34.46	32.07	30.69		---	36.33
10	---				35.57	35.75	34.37	31.90	30.79		---	36.39
11	---				35.57	35.76	34.26	31.50	30.88		---	36.48
12	---				35.58	35.77	34.10	31.28	31.00		---	---
13	---				35.58	35.77	33.97	31.32	31.11		---	---
14	---				35.56	35.79	33.83	31.36	---		---	---
15	---				35.56	35.81	33.72	31.35	---		---	---
16	---				35.55	35.81	33.58	31.08	---		---	---
17	---				35.56	35.80	33.45	30.93	---		---	---
18	---				35.56	35.78	33.33	30.77	---		---	---
19	---				35.58	35.81	33.49	30.61	---		35.41	---
20	---				35.60	35.81	33.56	30.53	---		35.50	---
21	---				35.61	35.81	33.57	30.45	---		35.57	---
22	---				35.60	35.81	33.57	30.36	---		35.66	---
23	---				35.59	35.81	33.57	30.33	---		35.73	---
24	---				35.61	35.81	33.58	30.31	---		35.77	---
25	---				35.64	35.51	33.59	30.21	---		35.79	---
26	---				35.66	35.29	33.59	30.21	---		35.83	---
27	---				35.66	35.12	33.58	30.21	---		35.91	---
28	---				35.66	35.02	33.59	30.15	---		35.93	---
29	---				---	34.97	33.59	30.07	---		35.92	---
30	---				---	34.91	33.50	30.11	32.54		35.97	35.86
31	---				---	34.87	---	30.15	---		36.02	---
MAX	36.53				35.66	35.81	34.78	33.60	32.54		36.02	36.48

WTR YR 1983 MEAN 34.09 HIGH 30.07 LOW 36.53

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

BUTLER COUNTY--Continued

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 (0.15 m), depth 200 ft (61.0 m), cased.
DATUM.--Altitude of land-surface datum is 630 ft (192 m), from topographic map. Measuring point: Floor of instrument shelter 4.13 ft (1.259 m) 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 (21.854 m) Oct. 24, 1944; minimum daily low, 38.24 ft (11.556 m) June 8, 1947.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 57.13 ft (17.413 m) Dec. 26; minimum daily low, 47.17 ft (14.377 m) June 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.81	55.37	56.63	56.68	56.39	56.23	56.38	54.30	47.32	48.68	51.15	53.25
2	53.82	55.41	56.70	56.59	56.28	56.23	56.30	54.16	47.38	48.83	51.34	53.33
3	53.83	55.49	56.71	56.58	56.17	56.26	56.21	54.00	47.38	48.92	51.40	53.38
4	53.91	55.59	56.71	56.61	56.43	56.27	56.46	53.67	47.17	48.97	51.44	53.42
5	54.03	55.68	56.68	56.57	56.46	56.29	56.48	53.33	47.20	49.03	51.51	53.46
6	54.11	55.76	56.83	56.53	56.30	56.28	56.48	52.97	47.20	49.17	51.56	53.52
7	54.14	55.79	57.02	56.46	56.12	56.28	56.44	52.41	47.25	49.27	51.60	53.73
8	54.16	55.84	57.06	56.53	56.17	56.31	56.42	52.08	47.29	49.31	51.64	53.87
9	54.17	55.93	57.08	56.53	56.17	56.36	56.32	52.08	47.33	49.33	51.74	53.91
10	54.22	55.96	57.02	56.43	56.13	56.40	56.07	51.99	47.38	49.36	51.82	53.93
11	54.38	55.96	56.87	56.50	56.15	56.45	55.94	51.78	47.40	49.43	51.85	53.94
12	54.47	55.93	56.92	56.74	56.23	56.48	55.92	51.50	47.42	49.54	51.96	53.97
13	54.49	56.18	56.97	56.74	56.25	56.49	55.78	51.30	47.43	49.65	52.07	54.11
14	54.50	56.18	57.00	56.63	56.12	56.45	55.57	51.11	47.45	49.73	52.13	54.24
15	54.51	56.27	57.01	56.65	56.10	56.46	55.35	50.93	47.47	49.79	52.18	54.31
16	54.66	56.29	57.09	56.66	56.10	56.49	55.35	50.42	47.51	49.86	52.27	54.33
17	54.74	56.31	57.11	56.80	56.14	56.49	55.09	49.83	47.56	49.93	52.33	54.37
18	54.79	56.33	57.11	56.89	56.16	56.48	54.94	49.15	47.58	50.05	52.42	54.41
19	54.83	56.35	56.90	56.92	56.16	56.44	54.83	48.53	47.60	50.20	52.50	54.46
20	54.90	56.36	57.00	56.92	56.20	56.48	54.82	48.43	47.66	---	52.57	54.49
21	55.06	56.38	57.11	56.79	56.23	56.47	54.81	48.14	47.77	---	52.60	54.61
22	55.11	56.39	57.11	56.70	56.23	56.73	54.74	47.81	47.85	---	52.65	54.70
23	55.14	56.40	57.08	56.67	56.16	56.77	54.52	47.85	47.96	---	52.76	54.81
24	55.16	56.68	57.07	56.69	56.19	56.77	54.38	47.86	48.04	---	52.90	54.87
25	55.18	56.72	57.09	56.72	56.31	56.60	54.42	47.78	48.12	---	52.97	54.89
26	55.26	56.72	57.13	56.73	56.37	56.60	54.46	47.75	48.21	---	53.00	54.90
27	55.27	56.71	57.07	56.71	56.38	56.35	54.47	47.72	48.33	---	53.03	54.93
28	55.27	56.58	56.74	56.56	56.32	56.35	54.46	47.56	48.44	---	53.05	55.02
29	55.27	56.49	56.77	56.34	---	56.58	54.45	47.32	48.53	---	53.09	55.10
30	55.31	56.57	56.83	56.29	---	56.59	54.45	47.25	48.56	---	53.12	55.17
31	55.34	---	56.83	56.36	---	56.50	---	47.26	---	---	53.15	---
MAX	55.34	56.72	57.13	56.92	56.46	56.77	56.48	54.30	48.56	50.20	53.15	55.17

WTR YR 1983 MEAN 54.00 HIGH 47.17 LOW 57.13

BUTLER COUNTY--Continued

392445084333000. Local number BU-36.
LOCATION.--Lat 39°24'45", long 84°33'30", Hydrologic Unit 05080002, on right bank of Great Miami River 300 ft (90 m) downstream from Twomile Creek in Hamilton.
Owner: Champion Paper Company.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL HARACTERISTICS.--Drilled industrial supply water-table well, diameter 30 in (0.76 m), depth 168 ft (51.2 m) cased.
PERIOD OF RECORD.--December 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	BICARBONATE FET-FLD (MG/L AS HCO3)
OCT										
28...	1230	880	7.3	--	15.5	<10	380	100	31	400
FEB										
28...	1500	850	7.3	11.0	15.0	15	410	110	32	400
MAY										
27...	1130	870	7.2	13.0	15.5	110	410	110	33	390
SEP										
07...	0900	870	7.3	23.0	15.5	19	410	110	33	400

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, TOTAL (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (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										
28...	94	48	.2	527	565	<.010	1.7	<1	20	20
FEB										
28...	100	50	.4	574	587	<.010	1.7	--	--	--
MAY										
27...	99	48	.5	549	569	<.010	1.6	--	--	--
SEP										
07...	98	48	.2	601	611	.050	1.6	3	30	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (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									
28...	11	6	50	6	1	<10	40	20	.8
FEB									
28...	--	--	<10	--	--	<10	--	--	.9
MAY									
27...	--	--	120	--	--	10	--	--	1.2
SEP									
07...	22	8	140	3	<1	20	45	15	1.7

392515084322000. Local number, BU-5.
LOCATION.--Lat 39°25'15", long 84°32'22", Hydrologic Unit 05080002, 2.0 mi (3.2 km) 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 (0.46 m), depth 110 ft (33.5 m) cased.
DATUM.--Altitude of land-surface datum is 590 ft (180 m), from topographic map. Measuring point: Floor of instrument shelter 5.71 ft (1.740 m) above land surface datum.
REMARKS.--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 (12,817 m) Sept. 16-17, 1954; minimum daily low, 4.10 ft (1,250 m) Jan. 23, 1959.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 25.34 ft (7.724 m) Sept. 22; minimum daily low, 12.24 ft (3.731 m) May 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.04	18.13	17.63	16.48	16.48	17.61	18.18	16.82	19.15	16.69	17.90	23.97
2	17.97	18.13	22.13	16.53	16.44	17.70	18.09	14.23	14.68	16.59	17.89	18.67
3	17.96	18.11	17.86	16.55	20.27	17.74	18.13	13.24	14.75	16.56	21.98	18.50
4	17.94	18.05	17.71	16.60	16.50	17.76	18.14	16.29	14.78	16.56	18.17	18.44
5	17.84	18.11	17.65	16.59	16.32	17.69	18.09	12.24	14.82	16.57	18.04	22.91
6	---	18.05	17.71	21.14	16.25	17.81	18.09	12.32	14.87	16.60	17.95	18.71
7	---	18.07	17.76	16.90	16.31	21.95	22.44	12.55	14.99	21.36	17.90	18.63
8	---	18.14	17.71	16.85	20.75	22.20	18.21	12.79	15.06	16.80	17.87	18.53
9	---	18.06	21.75	16.84	16.52	18.30	17.86	12.93	19.00	16.77	17.92	18.47
10	---	18.08	18.03	16.85	16.45	18.05	17.54	13.11	15.29	16.82	17.80	18.55
11	---	23.34	17.84	16.94	16.37	18.01	17.36	17.24	15.29	16.82	23.60	18.56
12	---	18.17	17.81	16.95	16.41	18.00	17.29	13.55	15.34	16.89	18.20	18.58
13	---	18.11	17.77	21.07	16.36	17.90	21.62	13.60	15.36	16.84	18.00	18.62
14	---	18.10	17.81	17.17	16.36	17.97	17.40	13.69	15.47	23.07	17.96	18.66
15	---	18.10	17.85	17.13	16.37	18.05	17.05	13.73	20.38	23.30	17.97	18.67
16	---	18.12	22.07	17.12	21.22	17.98	16.79	13.59	20.71	17.52	17.91	18.62
17	---	18.09	21.79	17.07	16.58	17.98	16.67	13.76	16.15	17.27	17.95	18.68
18	---	23.69	17.90	17.14	17.06	23.18	16.66	13.84	16.04	17.25	17.96	18.68
19	---	18.55	17.80	17.22	17.22	18.18	16.70	13.85	16.06	17.26	17.96	23.18
20	---	18.23	17.75	21.79	17.23	18.08	20.85	13.95	16.07	17.22	17.99	24.99
21	---	18.10	17.68	17.13	17.18	18.08	17.01	13.98	16.05	23.33	18.03	25.14
22	---	17.99	17.63	17.01	22.66	18.08	16.97	13.96	21.56	17.64	18.12	25.34
23	---	17.85	17.58	16.77	17.43	22.78	16.93	14.00	21.87	23.19	18.18	19.51
24	---	21.89	17.55	16.62	17.44	18.23	16.96	13.94	21.85	18.14	24.27	19.22
25	---	18.11	17.53	16.54	18.74	18.16	17.00	18.00	16.67	17.57	24.53	19.12
26	18.14	17.90	17.51	16.51	17.55	18.14	21.41	14.23	16.53	17.57	18.68	19.07
27	18.10	17.85	17.38	21.40	17.72	18.07	17.32	14.17	22.11	23.73	18.35	19.12
28	22.33	17.79	16.91	16.77	17.57	18.16	17.20	14.16	16.87	17.96	18.26	19.13
29	18.26	17.69	16.64	16.56	---	18.17	22.81	14.16	20.76	23.78	18.19	23.19
30	18.16	17.67	16.50	16.58	---	18.16	17.46	14.19	16.86	18.13	18.25	19.43
31	18.14	---	16.47	16.52	---	18.16	---	14.31	---	17.94	18.25	---
MAX	22.33	23.69	22.13	21.79	22.66	23.18	22.81	18.00	22.11	23.78	24.53	25.34

WTR YR 1983 MEAN 17.91 HIGH 12.24 LOW 25.34

BUTLER COUNTY--Continued

392733084293000 Local number, BU-16.
LOCATION.--Lat 39°27'33", long 84°29'30", Hydrologic Unit 05080002, Wayn-Madison Rd. 2 mi (3.2 km) southwest of Trenton.
Owner: Miller Brewing Co.
AQUIFER.--Sand and gravel of pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 4 in. (0.10 m), depth 218 ft (66.446 m), cased.
DATUM.--Altitude of land surface datum is 640 ft (195.07 m), from topographic map. Measuring point: floor of instrument shelter, 1.5 ft (0.457 m) above land surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--May 1982 to Septermber 1982.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 18.00 ft (5.486 m) Mar. 16, Apr. 6, 1983; Minimum daily low, 11.38 ft (3.469 m) May 23, 1982.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low 18.00 ft (5.486 m) Mar. 16, Apr. 6; Minimum recorded daily low 11.58 ft (3.530 m) May 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.52	17.43	17.25	16.92	17.14	17.85	17.59	16.22	11.67	14.14	13.70	15.01
2	15.56	16.72	17.56	16.97	17.48	---	17.59	14.65	11.93	12.65	15.03	15.01
3	15.58	17.49	17.37	17.03	17.34	---	17.61	13.18	11.95	12.65	13.82	15.02
4	15.68	16.79	17.38	17.07	17.11	---	17.62	11.89	11.80	12.65	14.95	15.03
5	15.70	16.81	17.40	17.41	17.10	---	17.98	11.67	11.80	12.65	15.02	15.05
6	15.71	16.83	17.45	17.43	17.10	---	18.00	11.59	11.81	12.66	13.94	16.48
7	15.72	16.86	17.52	17.50	17.11	---	17.83	11.58	11.82	12.99	13.94	16.40
8	15.75	16.89	17.55	17.51	17.13	---	17.82	11.60	12.31	13.20	13.94	15.96
9	15.77	16.93	17.82	17.53	17.16	---	17.35	11.71	12.03	14.03	14.36	15.32
10	16.50	17.40	17.63	17.56	17.19	---	16.61	11.65	12.03	12.92	14.08	15.33
11	16.71	17.25	17.63	17.64	17.57	---	16.05	11.65	12.04	13.55	14.08	15.34
12	17.11	17.04	17.64	17.67	17.47	---	16.06	11.67	12.04	12.99	14.08	16.70
13	16.27	17.04	17.94	17.69	17.46	---	16.44	11.74	12.06	12.99	14.09	16.68
14	16.77	17.06	17.97	17.74	17.46	17.65	16.26	11.81	12.37	12.99	14.12	16.82
15	16.82	17.08	17.99	17.57	17.59	17.98	16.09	11.83	12.39	13.74	14.16	15.54
16	16.13	17.11	17.83	17.56	17.54	18.00	15.73	11.80	12.26	13.16	14.21	16.19
17	16.59	17.42	17.63	17.83	17.72	17.79	15.69	11.67	12.49	13.16	14.24	15.58
18	16.61	17.47	17.62	17.87	17.58	17.78	15.70	11.67	12.33	13.16	14.28	15.59
19	16.23	17.50	17.64	17.89	17.58	17.78	16.10	11.66	12.33	13.17	15.70	15.62
20	16.67	17.28	17.92	17.76	17.58	17.79	15.92	11.66	12.41	14.58	14.49	16.82
21	16.74	17.29	17.95	17.75	17.57	17.79	15.92	11.64	12.49	13.34	14.49	15.76
22	16.75	17.34	17.76	17.74	17.57	17.56	15.93	11.64	12.52	13.34	14.49	15.76
23	16.41	17.37	17.99	17.53	17.57	17.55	15.94	11.65	12.57	13.34	14.50	16.48
24	16.43	17.45	17.80	16.96	17.57	17.55	15.97	11.65	12.78	13.34	15.27	15.88
25	16.47	17.24	17.79	16.94	17.57	17.56	16.01	11.84	12.46	14.60	15.75	15.89
26	16.78	17.26	17.95	16.94	17.58	17.56	16.26	11.66	12.46	13.50	14.76	15.91
27	16.92	17.28	17.86	16.96	17.58	17.57	16.69	11.65	13.63	13.50	14.76	15.93
28	16.96	17.29	17.26	17.01	17.59	17.58	17.04	11.64	13.15	14.73	14.76	17.17
29	16.99	17.29	17.03	17.03	---	17.59	16.56	11.63	12.77	13.97	14.76	16.06
30	16.63	17.27	17.04	17.07	---	17.59	16.28	11.63	12.93	13.65	15.75	16.03
31	16.66	---	16.88	17.14	---	17.59	---	11.62	---	13.65	16.10	---
MAX	17.11	17.50	17.99	17.89	17.72	18.00	18.00	16.22	13.63	14.73	16.10	17.17

WTR YR 1983 MEAN 15.62 HIGH 11.58 LOW 18.00

BUTLER COUNTY--Continued

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 (0.61 m), depth 250 ft (76.2 m) cased.
DATUM.--Altitude of land-surface datum is 668 ft (204 m), from topographic map. Measuring point: Floor of instrument shelter 1.08 ft (0.329 m) 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 (44.888 m) Apr. 4, 1955; minimum daily low, 45.27 ft (13.798 m) July 21, 1980.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 53.29ft (16.243 m) Sept. 1; minimum daily low, 48.48 ft (14.777 m) June 26.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.73	51.06	51.51	51.54	50.70	50.55	51.08	51.60	50.99	50.23	49.66	53.29
2	50.69	51.01	51.54	51.49	50.98	50.38	50.99	51.54	50.68	50.41	49.36	51.74
3	50.71	51.14	51.53	51.57	51.53	50.32	51.14	51.54	50.50	50.49	49.21	51.38
4	50.75	51.16	51.38	51.59	51.72	50.26	51.19	51.51	50.22	50.97	49.09	51.28
5	50.83	51.21	51.26	51.52	51.72	50.23	50.87	51.55	50.22	50.11	49.04	51.25
6	50.85	51.42	51.57	51.43	51.60	50.14	50.66	51.48	50.12	50.33	48.99	51.26
7	50.79	51.26	51.62	51.52	52.09	50.56	50.58	51.29	49.89	50.31	48.95	51.31
8	50.82	51.18	51.59	51.57	52.09	51.18	50.55	51.31	49.87	50.27	49.38	51.33
9	50.78	51.18	51.57	51.48	51.79	51.38	50.44	51.31	49.92	50.21	49.99	51.30
10	50.83	51.13	51.40	51.32	51.58	51.56	50.34	51.13	49.96	50.20	50.17	51.28
11	50.94	51.02	51.31	51.42	51.56	51.68	50.36	50.99	49.96	50.21	50.33	51.25
12	50.96	51.16	51.34	51.63	51.60	51.73	50.80	50.83	49.93	50.67	50.48	51.29
13	50.94	51.25	51.36	51.51	51.59	51.73	51.26	50.74	49.91	50.66	50.61	51.39
14	50.86	51.18	51.31	51.48	51.37	52.17	51.66	50.59	49.66	50.45	51.02	51.45
15	50.94	51.24	51.29	51.54	51.11	52.17	51.90	50.43	49.49	50.29	51.00	51.46
16	51.00	51.18	51.39	51.53	51.10	52.00	51.94	50.38	49.46	50.16	50.78	51.36
17	51.02	51.14	51.40	51.40	51.23	51.75	52.04	50.10	49.44	50.12	50.66	51.46
18	50.99	51.18	51.28	51.52	51.25	51.57	52.36	49.91	49.37	50.12	50.57	51.41
19	50.99	51.16	51.27	51.54	51.24	51.69	52.36	49.68	49.32	49.94	50.67	51.61
20	51.10	51.14	51.37	51.52	51.32	51.69	52.15	49.54	49.28	49.92	51.25	51.83
21	51.14	51.13	51.50	51.35	51.32	51.54	52.02	49.53	49.00	49.89	50.71	51.95
22	51.12	51.09	51.50	51.28	51.29	51.58	51.94	49.33	48.84	49.93	50.65	52.00
23	51.09	51.06	51.43	51.28	51.03	51.59	51.86	49.52	48.71	49.89	50.84	52.05
24	51.06	51.44	51.49	51.38	50.99	51.49	51.76	50.16	48.64	49.96	50.91	52.07
25	51.03	51.45	51.50	51.42	51.05	51.47	51.76	50.32	48.51	50.05	50.93	52.06
26	51.14	51.40	51.66	50.67	51.10	51.41	51.57	50.53	48.48	50.19	50.93	52.03
27	51.14	51.48	51.52	50.53	51.07	51.28	51.53	50.58	48.65	49.96	50.96	52.07
28	51.13	51.34	51.58	50.34	50.86	51.47	51.61	50.58	49.28	49.79	50.96	52.09
29	51.09	51.35	51.70	50.25	---	51.51	51.61	50.57	49.60	49.75	51.00	52.14
30	51.13	51.50	51.70	50.11	---	51.43	51.60	50.58	50.06	49.73	52.30	52.40
31	51.11	---	51.61	50.38	---	51.19	---	50.77	---	49.68	53.11	---
MAX	51.14	51.50	51.70	51.63	52.09	52.17	52.36	51.60	50.99	50.97	53.11	53.29

WTR YR 1983 MEAN 50.96 HIGH 48.48 LOW 53.29

BUTLER COUNTY--Continued

393103084240900. Local number, BU-2
LOCATION.--Lat 39°31'03", long 84°24'09", Hydrologic Unit 05080002, in basement of YMCA in Middletown.
Owner: Middletown YMCA.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.3 m), depth 88 ft (25.8 m), cased.
DATUM.--Altitude of land-surface datum is 636.27 ft (193.935 m). Measuring point: Top of platform 14.77 ft (4.502 m) 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 (15.895 m) Sept. 28, Nov. 5, 1953 and Jan. 22, 1954; minimum daily low, 27.30 ft (8.321 m) June 17, 1980.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 37.65 ft (11.476 m) Aug. 24; minimum daily low, 29.60 ft (9.022 m) May 19.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.10	36.65	35.95	34.30	33.75	34.30	34.90	32.75	31.00	34.45	34.20	37.35
2	36.90	34.95	36.20	34.15	33.60	34.40	34.50	32.65	31.35	34.35	35.45	36.75
3	36.00	35.05	36.10	35.25	33.75	36.25	34.75	32.20	31.95	---	36.55	36.55
4	36.60	35.45	34.50	35.85	33.65	36.65	35.35	31.85	32.05	33.85	36.00	36.55
5	36.95	36.55	32.65	35.45	33.65	37.05	35.55	31.60	30.80	34.25	35.95	36.60
6	36.80	36.80	34.10	35.55	33.80	36.55	35.55	31.55	32.05	34.35	36.25	36.80
7	36.85	36.05	34.25	35.50	36.05	36.75	35.65	30.80	32.45	32.60	36.25	36.75
8	34.70	36.60	34.05	35.40	36.30	35.45	35.75	30.15	33.20	34.00	36.50	37.20
9	34.70	36.55	34.45	35.00	35.35	35.50	35.45	31.55	32.80	34.05	36.55	37.25
10	34.70	36.55	35.85	35.35	35.45	35.40	35.40	32.00	32.80	34.25	36.40	37.25
11	34.20	37.25	36.35	33.15	35.20	34.80	35.15	31.65	32.80	34.20	36.40	37.00
12	34.00	36.50	36.30	33.35	34.70	34.40	33.75	31.25	32.95	33.55	35.70	36.45
13	34.45	35.40	36.75	33.50	34.80	34.05	33.85	31.05	33.10	34.65	34.40	35.70
14	35.70	35.20	36.45	33.15	35.50	34.33	35.15	31.30	33.35	34.80	34.40	36.05
15	36.50	35.25	35.15	33.15	35.00	34.65	35.40	30.35	33.60	35.15	35.55	35.50
16	36.80	35.15	34.95	33.35	34.30	34.60	35.45	30.05	31.70	34.65	36.00	35.80
17	37.35	34.95	34.85	34.50	34.50	34.15	35.10	30.60	31.95	34.80	36.55	35.40
18	37.40	34.70	34.65	34.60	36.20	34.20	35.40	29.90	31.60	34.45	36.60	35.35
19	37.30	34.40	34.45	34.55	36.65	34.15	33.90	29.60	31.65	34.00	36.80	36.40
20	35.65	34.25	34.75	34.70	36.35	33.50	33.50	29.85	31.80	---	36.80	37.10
21	35.60	34.25	36.80	34.60	36.25	35.85	33.50	29.85	32.05	34.90	36.90	37.10
22	35.65	35.05	37.20	33.90	34.40	35.90	33.25	30.05	32.60	35.30	37.25	34.90
23	35.40	35.60	36.60	34.25	34.35	35.90	33.10	30.30	32.75	35.30	37.15	34.75
24	34.95	35.25	35.75	33.85	34.55	35.55	32.95	30.65	32.95	34.05	37.65	34.85
25	35.70	35.00	33.35	34.15	34.55	35.00	34.00	30.75	32.75	35.05	37.15	34.60
26	35.85	33.65	33.15	36.20	34.05	35.10	34.25	30.65	32.65	34.90	37.10	34.75
27	36.65	33.65	33.60	36.20	33.95	34.85	34.05	30.60	32.95	35.15	37.15	36.05
28	37.15	33.65	33.75	36.65	34.35	35.15	34.15	30.50	33.80	35.40	35.35	35.75
29	37.00	34.45	33.55	36.10	---	35.15	34.15	30.20	34.00	35.85	35.65	35.70
30	36.80	35.80	35.15	35.90	---	35.00	33.55	30.40	33.95	35.35	36.45	37.25
31	36.45	---	35.25	36.00	---	35.15	---	31.15	---	35.20	36.25	---
MAX	37.40	37.25	37.20	36.65	36.65	37.05	35.75	32.75	34.00	35.85	37.65	37.35

WTR YR 1983 MEAN 34.68 HIGH 29.60 LOW 37.65

CARROLL COUNTY

403709081052800. Local number, C-1.
LOCATION.--Lat 40°37'09", long 81°05'28", Hydrologic Unit 05040001, Carrollton well field, State Route 171, 3 mi (4.8 km) north of Carrollton.
Owner: Carrollton Water Department.
AQUIFER.--Sandstone of Pennsylvanian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (0.25 m), depth 70 ft (21.336 m), cased.
DATUM.--Altitude of land-surface datum is 1050 ft (320 m), from topographic map. Measuring point: Top of platform 3.00 ft (0.914 m) 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 (12.405 m) Nov. 19, 1957; minimum daily low, 7.20 ft (2.195 m) Jan. 10, 1971.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 38.77ft (11.817 m) Nov. 18-19; minimum daily low, 16.41 ft (5.002 m) May 9.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.15	37.58	37.95	30.12	28.18	26.23	23.59	18.04	17.37	23.05	29.19	34.16
2	35.36	37.61	37.78	29.81	27.89	26.43	23.43	17.69	17.42	23.27	29.47	34.38
3	35.60	37.71	37.60	29.59	28.05	26.55	23.42	17.35	17.45	23.43	29.67	34.38
4	35.77	37.88	37.45	29.42	28.12	26.69	23.33	17.15	17.57	23.65	29.92	34.27
5	35.92	38.03	37.28	29.12	27.87	26.82	22.98	17.00	17.71	23.84	30.15	34.23
6	36.06	38.14	37.20	28.98	27.43	26.92	22.58	16.83	17.83	24.04	30.36	34.20
7	36.22	38.23	37.11	28.94	27.33	26.99	22.32	16.49	17.90	24.19	30.57	34.21
8	36.31	38.34	36.95	28.87	27.24	27.12	22.23	16.60	18.11	24.29	30.76	34.20
9	36.43	38.36	36.79	28.72	27.07	27.22	21.80	16.41	18.21	24.25	31.01	34.52
10	36.52	38.48	36.47	28.52	26.95	27.21	21.38	16.42	18.34	24.28	31.18	34.50
11	36.65	38.53	36.27	28.49	26.92	27.11	21.01	16.51	18.51	24.30	31.40	34.52
12	36.71	38.68	36.06	28.61	26.94	26.75	20.78	16.52	18.78	24.56	31.68	34.54
13	36.75	38.66	35.92	28.41	26.91	26.59	20.33	16.57	18.96	24.72	31.89	34.54
14	36.81	38.70	35.72	28.21	26.65	26.42	19.84	16.64	19.11	24.88	32.09	34.56
15	36.88	38.72	35.54	28.16	26.76	26.39	19.52	16.84	19.27	25.04	32.30	34.57
16	36.91	38.72	35.38	28.13	26.65	26.20	19.13	16.99	19.50	25.32	32.52	34.59
17	36.96	38.76	35.19	28.12	26.75	25.96	18.74	17.08	19.74	25.57	32.85	34.67
18	36.98	38.77	34.94	28.19	26.62	25.89	18.47	17.12	20.15	25.85	33.33	34.73
19	37.04	38.77	34.63	28.20	26.58	25.75	18.25	17.08	20.47	26.08	33.47	34.77
20	37.16	38.74	34.33	28.14	26.52	25.67	18.13	17.19	20.56	26.32	33.68	34.78
21	37.18	38.76	34.07	28.12	26.28	25.17	18.04	17.12	20.99	26.63	33.82	34.90
22	37.24	38.76	33.78	28.13	26.18	25.16	17.96	17.17	21.19	26.64	34.07	34.88
23	37.29	38.75	33.40	28.13	26.20	24.98	17.89	17.20	21.36	27.16	34.27	34.90
24	37.34	38.71	33.10	28.25	26.10	24.71	17.90	17.27	21.65	27.31	34.73	34.92
25	37.42	38.63	32.75	28.30	26.15	24.54	17.90	17.16	21.90	27.31	34.88	35.02
26	37.45	38.55	32.41	28.32	26.20	24.44	17.92	17.12	22.08	27.43	34.99	35.04
27	37.45	38.50	31.99	28.31	26.13	24.12	17.91	17.13	22.29	27.75	34.90	35.07
28	37.27	38.35	31.45	28.28	26.12	24.12	17.94	17.18	22.52	28.02	34.69	35.07
29	37.25	38.31	31.35	28.28	---	24.12	18.07	17.17	22.66	28.32	34.56	35.08
30	37.36	38.17	31.00	28.31	---	23.88	18.11	17.25	22.86	28.62	34.43	35.08
31	37.48	---	30.49	28.27	---	23.61	---	17.27	---	28.88	34.21	---
MAX	37.48	38.77	37.95	30.12	28.18	27.22	23.59	18.04	22.86	28.88	34.99	35.08

WTR YR 1983 MEAN 28.42 HIGH 16.41 LOW 38.77

CHAMPAIGN COUNTY

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 (0.2 m), depth 40 ft (12.2 m), cased.
DATUM.--Altitude of land-surface datum is 1030 ft (314 m), from topographic map. Measuring point: Floor of instrument shelter 4.50 ft (1.372 m) 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 (7.559 m) Feb. 26-29, Mar. 13, 1964; minimum daily low, 12.45 ft (3.795 m) Mar. 24, 1975.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 19.72 ft (6.011 m) Mar. 30-31; minimum daily low, 17.48 ft (5.304 m) July 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.46	18.94	19.13	18.57	19.22	19.35	19.71	19.01	17.80	17.62	18.11	18.77
2	18.49	18.98	19.15	18.53	19.21	19.38	19.64	18.84	17.81	17.63	18.13	18.80
3	18.33	19.02	19.19	18.72	19.22	19.38	19.58	18.75	17.81	17.49	18.13	18.82
4	18.43	19.04	19.20	18.83	19.22	19.39	19.54	18.57	17.80	17.40	18.13	18.86
5	18.49	19.07	19.14	18.89	19.23	19.42	19.65	18.45	17.72	17.49	18.16	18.83
6	18.52	19.09	19.20	18.94	19.26	19.42	19.68	18.37	17.79	17.55	18.21	18.90
7	18.56	18.97	19.22	18.97	19.28	19.42	19.70	18.32	17.84	17.59	18.19	18.90
8	18.55	19.06	19.24	19.02	19.29	19.42	19.70	18.19	17.86	17.63	18.29	18.91
9	18.56	19.12	19.25	19.03	19.31	19.46	19.70	18.16	17.87	17.66	18.35	18.94
10	18.44	19.17	19.25	19.04	19.32	19.47	19.58	18.19	17.89	17.66	18.38	18.96
11	18.47	19.18	19.29	19.07	19.35	19.50	19.56	18.16	17.90	17.68	18.42	18.97
12	18.52	19.17	19.30	19.08	19.36	19.54	19.56	18.15	17.79	17.73	18.45	19.00
13	18.57	19.16	19.30	19.08	19.21	19.50	19.57	18.12	17.80	17.74	18.49	19.01
14	18.61	19.18	19.32	19.11	19.34	19.50	19.55	18.12	17.83	17.76	18.52	19.03
15	18.61	19.20	19.34	19.13	19.37	19.56	19.52	18.07	17.85	17.80	18.52	19.06
16	18.63	19.22	19.30	19.15	19.39	19.56	19.51	18.05	17.85	17.82	18.55	19.08
17	18.65	19.28	19.30	19.15	19.38	19.57	19.52	18.05	17.87	17.75	18.63	19.11
18	18.69	19.29	19.31	19.17	19.33	19.58	19.47	18.04	17.89	17.82	18.67	19.12
19	18.72	19.30	19.30	19.19	19.30	19.58	19.47	18.03	17.78	17.84	18.67	19.16
20	18.74	19.30	19.26	19.21	19.29	19.59	19.47	18.01	17.73	17.85	18.70	19.20
21	18.76	19.29	19.30	19.25	19.33	19.59	19.45	18.04	17.76	17.87	18.73	19.19
22	18.77	19.15	19.33	19.26	19.33	19.59	19.45	17.94	17.76	17.89	18.76	19.19
23	18.78	19.15	19.33	19.13	19.35	19.63	19.47	17.91	17.78	17.89	18.78	19.23
24	18.79	19.16	19.35	19.14	19.38	19.64	19.39	17.89	17.81	17.89	18.78	19.20
25	18.85	19.18	19.25	19.16	19.39	19.66	19.44	17.90	17.80	17.89	18.73	19.24
26	18.88	18.99	19.20	19.17	19.39	19.69	19.46	17.88	17.80	17.90	18.72	19.25
27	18.91	18.95	19.17	19.19	19.34	19.70	19.48	17.87	17.81	17.94	18.73	19.28
28	18.93	18.93	18.75	19.22	19.37	19.68	19.45	17.91	17.81	17.99	18.73	19.32
29	18.96	19.02	18.65	19.23	---	19.70	19.48	17.80	17.75	18.03	18.74	19.35
30	18.97	19.08	18.63	19.22	---	19.72	19.47	17.73	17.76	18.07	18.75	19.38
31	18.88	---	18.60	19.20	---	19.72	---	17.78	---	18.08	18.77	---
MAX	18.97	19.30	19.35	19.26	19.39	19.72	19.71	19.01	17.90	18.08	18.78	19.38

WTR YR 1983 MEAN 18.81 HIGH 17.40 LOW 19.72

CLARK COUNTY

395639084012200. Local number, CL-9.
LOCATION.--Lat 39°56'39", long 84°01'22", Hydrologic Unit 05080001, at north edge of New Carlisle.
Owner: New Carlisle Water Department.
AQUIFER.--Sand and Gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.3 m), depth 113 ft (34.4 m), cased.
DATUM.--Altitude of land-surface datum is 900 m) (274 m), from topographic map. Measuring point: Top of platform 2.50 ft (0.752 m) 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 (9.525 m) July 13, 1977; minimum daily low, 18.20 ft (5.547 m) July 4, 1980.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 29.20 ft (8.900 m) Sep. 21; minimum daily low, 25.31 ft (7.714 m) May 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.64	27.38	26.86	26.93	27.24	27.46	27.61	27.07	25.54	26.57	27.89	27.75
2	26.52	27.30	26.79	27.04	27.26	27.35	27.50	26.79	25.52	26.73	28.07	28.26
3	26.67	26.95	26.62	26.80	27.23	27.59	27.77	26.49	25.61	26.29	27.95	28.32
4	26.64	26.89	26.91	26.78	26.88	27.44	27.85	25.79	25.60	26.59	27.00	28.24
5	26.87	27.05	27.02	26.79	26.94	27.14	27.62	26.12	25.37	26.50	27.31	28.36
6	26.81	27.27	26.93	26.45	26.84	27.52	27.70	26.11	25.64	26.67	27.58	28.79
7	26.81	27.21	27.11	26.92	26.95	27.41	27.71	25.98	25.70	26.34	27.27	28.31
8	26.80	27.20	26.94	26.80	27.00	27.41	27.85	25.83	26.19	26.72	27.22	28.50
9	26.89	27.03	27.01	26.58	27.12	27.46	27.19	25.79	26.24	26.37	26.77	28.66
10	26.65	27.04	26.92	27.00	27.25	27.40	27.51	25.87	26.22	26.89	26.99	28.56
11	26.70	27.11	27.15	27.02	26.86	27.44	27.60	25.66	26.98	26.99	26.65	28.49
12	26.72	27.00	26.46	26.90	27.12	27.51	27.51	25.68	27.09	27.04	26.90	28.68
13	27.57	26.95	27.52	27.06	26.91	27.57	27.42	25.61	27.12	27.11	26.92	28.52
14	27.63	27.21	27.33	26.83	27.09	27.52	27.26	25.69	27.27	26.99	27.09	28.64
15	26.90	27.09	28.07	27.17	26.46	27.66	27.32	25.89	26.61	26.86	27.08	28.58
16	27.03	26.87	27.14	27.29	27.13	27.56	27.25	25.77	26.48	27.39	27.25	28.57
17	26.86	27.28	27.20	27.28	27.15	27.47	27.14	25.92	26.97	27.08	26.78	28.16
18	26.95	27.29	27.17	27.42	27.13	27.60	27.43	25.90	25.87	27.23	26.92	28.35
19	26.95	27.04	27.20	27.42	27.42	27.76	27.30	25.81	25.85	27.29	27.19	28.67
20	26.92	27.19	27.10	26.50	27.39	27.57	27.81	25.83	25.96	27.07	27.35	28.40
21	26.98	27.09	27.36	27.72	26.94	27.82	27.22	26.10	26.20	27.22	27.30	29.20
22	26.88	26.99	27.05	27.33	27.21	27.67	27.20	25.98	25.75	27.11	28.42	28.50
23	26.93	27.02	27.02	27.38	27.11	27.62	27.34	26.04	25.96	26.99	27.99	28.43
24	27.10	26.96	27.56	26.96	27.42	27.68	27.03	25.61	26.14	26.96	28.17	28.47
25	27.17	26.80	26.89	27.29	27.09	27.72	27.38	25.52	27.21	26.81	28.01	28.51
26	27.13	26.93	27.49	27.26	27.27	27.57	27.38	25.48	26.81	26.59	28.10	28.40
27	26.96	26.93	27.46	27.15	27.43	27.64	27.39	25.76	26.54	26.79	28.12	28.54
28	27.05	26.80	26.82	27.61	27.29	27.78	27.44	25.58	26.56	26.82	27.87	28.78
29	27.01	26.80	27.69	27.42	---	27.57	27.17	25.31	26.45	26.67	28.41	28.42
30	27.14	26.76	27.96	27.47	---	27.52	27.39	25.44	26.79	26.72	28.22	28.48
31	27.04	---	26.98	27.51	---	27.67	---	25.63	---	26.22	27.85	---
MAX	27.63	27.38	28.07	27.72	27.43	27.82	27.85	27.07	27.27	27.39	28.42	29.20

WTR YR 1983 MEAN 27.11 HIGH 25.31 LOW 29.20

CLARK COUNTY--Continued

395840083495200. Local number, CL-7.
LOCATION.--Lat 39°58'40", long 83°49'52", Hydrologic Unit 05080001. Eagle City Road northwest of Springfield. Owner: State of Ohio.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 50 ft (15.2 m), cased.
DATUM.--Altitude of land-surface datum is 928.02 ft (282.860 m). Measuring point: Floor of instrument shelter 2.00 ft (0.610 m) 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 (9.196 m) Feb. 18, 19, 1961; minimum daily low, 10.04 ft (3.133 m) June 16, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 16.96 ft (5.169 m) Apr. 6-8; minimum daily low, 13.06 ft (3.981 m) May 23.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.06	16.33	16.10	15.14	15.90	16.24	16.95	16.16	13.23	14.46	15.55	16.42
2	16.08	16.29	16.08	15.09	15.89	16.28	16.95	15.96	13.29	14.47	15.57	16.42
3	16.08	16.29	16.07	15.05	15.87	16.32	16.95	15.51	13.29	14.48	15.60	16.41
4	16.08	16.29	16.05	15.05	15.85	16.37	16.95	14.90	13.33	14.50	15.63	16.41
5	16.07	16.29	16.05	15.06	15.84	16.40	16.95	14.34	13.36	14.49	15.65	16.39
6	16.09	16.30	16.04	15.08	15.81	16.42	16.96	13.97	13.38	14.52	15.67	16.36
7	16.11	16.31	16.05	15.15	15.78	16.42	16.96	13.73	13.42	14.57	15.67	16.39
8	16.11	16.31	16.06	15.17	15.77	16.43	16.96	13.53	13.49	14.61	15.68	16.40
9	16.10	16.34	16.08	15.17	15.75	16.45	16.94	13.44	13.55	14.65	15.72	16.43
10	16.10	16.36	16.09	15.16	15.74	16.48	16.91	13.33	13.59	14.71	15.76	16.43
11	16.04	16.37	16.13	15.21	15.76	16.50	16.84	13.25	13.64	14.74	15.79	16.42
12	16.03	16.38	16.13	15.26	15.79	16.53	16.78	13.20	13.68	14.77	15.80	16.43
13	16.04	16.39	16.13	15.31	15.79	16.54	16.72	13.14	13.73	14.81	15.81	16.44
14	16.04	16.39	16.15	15.34	15.78	16.56	16.67	13.11	13.78	14.87	15.81	16.46
15	16.05	16.39	16.17	15.39	15.79	16.59	16.60	13.10	13.85	14.97	15.83	16.49
16	16.08	16.42	16.17	15.39	15.83	16.62	16.52	13.09	13.94	15.05	15.88	16.49
17	16.08	16.44	16.15	15.44	15.88	16.63	16.44	13.08	14.00	15.09	15.94	16.48
18	16.07	16.46	16.11	15.50	15.89	16.65	16.37	13.08	14.07	15.12	16.01	16.48
19	16.10	16.47	16.10	15.58	15.94	16.68	16.32	13.07	14.08	15.13	16.06	16.45
20	16.13	16.48	16.05	15.63	15.96	16.69	16.27	13.09	14.06	15.18	16.13	16.45
21	16.15	16.48	16.03	15.69	15.96	16.71	16.24	13.09	14.02	15.23	16.17	16.47
22	16.18	16.41	16.02	15.72	15.97	16.73	16.22	13.08	14.08	15.28	16.20	16.47
23	16.20	16.35	16.01	15.75	16.02	16.76	16.20	13.06	14.13	15.33	16.25	16.47
24	16.21	16.33	16.00	15.76	16.06	16.79	16.18	13.08	14.18	15.33	16.29	16.48
25	16.21	16.32	15.97	15.79	16.11	16.82	16.18	13.09	14.24	15.32	16.34	16.47
26	16.23	16.30	15.92	15.81	16.15	16.84	16.18	13.12	14.28	15.34	16.39	16.47
27	16.25	16.27	15.90	15.83	16.18	16.86	16.21	13.14	14.32	15.36	16.43	16.50
28	16.28	16.23	15.76	15.85	16.21	16.88	16.22	13.15	14.37	15.39	16.43	16.54
29	16.31	16.15	15.56	15.87	---	16.89	16.22	13.14	14.43	15.43	16.43	16.56
30	16.33	16.12	15.36	15.90	---	16.91	16.22	13.14	14.45	15.48	16.41	16.59
31	16.33	---	15.23	15.90	---	16.94	---	13.17	---	15.52	16.42	---
MAX	16.33	16.48	16.17	15.90	16.21	16.94	16.96	16.16	14.45	15.52	16.43	16.59

WTR YR 1983 MEAN 15.65 HIGH 13.06 LOW 16.96

COSHOCTON COUNTY

401256081525100. Local number, CS-3.
LOCATION.--Lat 40°12'56", long 81°52'51", Hydrologic Unit 05040004, 1.5 mi (2.4 km) north of Conesville.
Owner: Universal Cyclops Corp.
AQUIFER.--Sand and gravel of Quaternary Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diamter 8 in (0.2 m), depth 110 ft (33.5 m), cased.
DATUM.--Altitude of land-surface datum is 745 ft (227 m) from topographic map. Measuring point: Floor of instrument shelter 2.80 ft (0.853 m) 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 (11.272 m) Oct. 16, 1973; minimum daily low, 21.40 ft (5.523 m) July 10, 1969.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 33.25 ft (10.135 m) Oct. 22; minimum daily low, 23.79 ft (7.251 m) Apr. 19.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.80	32.59	29.52	26.14	30.20	30.57	29.33	27.29	27.34	30.83	31.67	32.55
2	32.72	32.61	29.33	26.36	30.12	30.68	29.19	26.85	27.79	30.61	31.55	32.51
3	32.53	32.60	29.29	26.72	29.97	30.76	29.10	26.38	28.04	30.41	31.29	32.52
4	32.44	32.54	29.25	27.14	29.55	30.83	28.91	25.88	28.26	30.22	31.19	32.49
5	32.66	32.45	29.20	27.47	29.01	30.81	28.91	25.20	28.27	30.11	31.24	32.35
6	32.77	32.39	29.23	27.77	28.52	30.83	28.93	24.69	28.44	30.02	31.28	32.53
7	32.84	32.21	29.21	28.10	28.26	31.14	28.95	24.44	28.59	29.93	31.27	32.47
8	32.85	32.25	29.27	28.26	28.28	31.34	28.94	23.93	28.78	29.98	31.56	32.48
9	32.76	32.30	29.32	28.45	28.45	31.42	28.72	23.95	28.98	30.07	31.71	32.46
10	32.56	32.36	29.41	28.83	28.50	31.42	28.16	24.02	29.18	30.22	31.85	32.36
11	32.92	32.38	29.43	29.02	28.73	31.30	27.34	24.06	29.37	30.40	31.94	32.36
12	33.00	32.40	29.48	29.09	28.76	31.18	26.81	23.93	29.54	30.61	32.01	32.38
13	33.11	32.36	29.61	29.23	28.81	30.93	26.27	24.06	29.81	30.75	31.99	32.40
14	33.16	32.16	29.74	29.36	29.00	30.82	25.81	24.12	30.01	30.89	31.88	32.45
15	33.06	32.06	29.85	29.38	29.16	30.82	25.51	24.30	30.18	31.03	32.03	32.49
16	33.00	32.18	29.89	29.48	29.31	30.74	24.98	24.58	30.39	31.16	31.95	32.53
17	32.77	32.15	29.71	29.69	29.48	30.71	24.26	24.67	30.56	31.23	32.00	32.54
18	33.01	32.11	29.37	29.86	29.54	30.77	23.88	24.91	30.64	31.30	32.08	32.46
19	33.15	32.12	28.99	30.01	29.53	30.69	23.79	25.30	30.66	31.35	32.17	32.35
20	33.24	31.96	28.80	30.16	29.57	30.48	24.08	25.70	30.65	31.39	32.17	32.41
21	33.24	31.77	28.68	30.25	29.78	30.34	24.43	26.04	30.69	31.45	32.09	32.45
22	33.25	31.62	28.55	30.27	29.95	30.30	24.73	26.27	30.74	31.46	32.19	32.45
23	33.12	31.48	28.42	30.30	30.13	30.15	24.87	26.24	30.76	31.52	32.34	32.39
24	32.85	31.23	28.30	30.38	30.27	30.02	25.24	26.12	30.82	31.45	32.54	32.36
25	32.89	31.01	28.07	30.23	30.36	29.99	25.81	25.97	30.75	31.51	32.59	32.24
26	33.05	30.67	27.70	30.40	30.33	29.90	26.32	26.15	30.81	31.41	32.60	32.33
27	33.08	30.43	27.39	30.41	30.29	29.78	26.76	26.30	30.83	31.47	32.62	32.40
28	33.07	30.26	27.16	30.22	30.50	30.05	26.98	26.52	30.90	31.47	32.50	32.47
29	32.87	30.06	26.86	30.24	---	30.05	27.28	26.60	30.93	31.61	32.49	32.52
30	32.81	29.82	26.46	30.23	---	29.89	27.32	26.77	30.89	31.71	32.51	32.57
31	32.68	---	26.12	30.23	---	29.53	---	27.07	---	31.72	32.64	---
MAX	33.25	32.61	29.89	30.41	30.50	31.42	29.33	27.29	30.93	31.72	32.64	32.57

WTR YR 1983 MEAN 30.00 HIGH 23.79 LOW 33.25

DARKE COUNTY

400514084345700. Local number, D-2.
LOCATION.--Lat 40°05'14", long 84°34'57", Hydrologic Unit 05080001, State Route 571, 3 mi (4.8 km) east of Greenville.
Owner: Greenville Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 70 ft (21.3 m), cased.
DATUM.--Altitude of land-surface datum is 1038 ft (316 m), from topographic map. Measuring point: Floor of shelter 4.00 ft (1.219 m) 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 (6.227 m) Nov. 29, 1977; minimum daily low, 16.76 ft (5.108 m) Apr. 14, 1980.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 19.93 ft (6.075 m), Dec. 26; minimum daily low, 18.36 ft (5.596 m) May 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.84	19.14	19.54	19.59	19.63	19.31	19.24	19.03	18.62	18.68	18.94	19.28
2	18.83	19.16	19.56	19.59	19.24	19.41	19.10	18.81	18.64	18.73	19.00	19.22
3	18.90	19.29	19.49	19.71	19.73	19.46	19.51	18.80	18.49	18.72	18.91	19.23
4	18.93	19.32	19.52	19.67	19.88	19.41	19.61	18.84	18.52	18.66	18.92	19.23
5	18.98	19.36	19.44	19.54	19.83	19.40	19.47	18.94	18.54	18.77	18.95	19.21
6	18.96	19.36	19.82	19.48	19.43	19.35	19.27	18.86	18.53	18.84	18.91	19.25
7	18.90	19.28	19.82	19.72	19.59	19.35	19.33	18.60	18.55	18.86	18.92	19.41
8	18.90	19.34	19.75	19.74	19.59	19.46	19.34	18.90	18.60	18.73	18.90	19.39
9	18.90	19.36	19.73	19.62	19.47	19.47	19.17	18.90	18.65	18.63	19.01	19.31
10	18.98	19.30	19.46	19.43	19.46	19.49	19.22	18.82	18.66	18.66	19.01	19.29
11	19.07	19.22	19.60	19.58	19.59	19.51	19.33	18.70	18.64	18.67	19.00	19.29
12	19.07	19.53	19.62	19.87	19.71	19.49	19.36	18.60	18.60	18.71	19.08	19.35
13	18.96	19.63	19.62	19.70	19.61	19.39	19.15	18.57	18.57	18.76	19.10	19.40
14	18.98	19.41	19.57	19.64	19.31	19.46	19.22	18.49	18.53	18.72	19.10	19.43
15	19.07	19.53	19.57	19.73	19.40	19.53	19.30	18.64	18.51	18.68	19.04	19.39
16	19.21	19.35	19.78	19.73	19.36	19.51	19.27	18.69	18.59	18.72	19.05	19.32
17	19.21	19.37	19.78	19.77	19.57	19.38	19.15	18.73	18.60	18.71	19.04	19.44
18	19.09	19.39	19.54	19.87	19.57	19.28	19.04	18.67	18.55	18.76	19.07	19.39
19	19.09	19.37	19.58	19.83	19.49	19.53	19.10	18.53	18.58	18.77	19.12	19.46
20	19.22	19.37	19.70	19.74	19.57	19.53	19.11	18.63	18.63	18.78	19.10	19.36
21	19.22	19.44	19.83	19.52	19.49	19.54	19.09	18.57	18.71	18.78	19.11	19.48
22	19.19	19.43	19.74	19.46	19.36	19.71	19.08	18.45	18.64	18.79	19.12	19.50
23	19.18	19.46	19.63	19.51	19.36	19.69	19.00	18.63	18.65	18.72	19.19	19.56
24	19.17	19.75	19.69	19.62	19.40	19.47	19.06	18.69	18.60	18.82	19.22	19.58
25	19.09	19.65	19.72	19.69	19.62	19.50	19.07	18.55	18.61	18.87	19.18	19.44
26	19.19	19.52	19.93	19.68	19.67	19.45	19.13	18.59	18.65	18.91	19.12	19.46
27	19.14	19.58	19.72	19.67	19.55	19.17	19.05	18.58	18.61	18.89	19.12	19.49
28	19.10	19.31	19.74	19.57	19.34	19.61	19.13	18.49	18.62	18.88	19.13	19.53
29	19.17	19.47	19.81	19.47	---	19.67	19.13	18.36	18.68	18.90	19.16	19.53
30	19.22	19.54	19.84	19.66	---	19.48	19.03	18.44	18.63	18.89	19.14	19.50
31	19.17	---	19.70	19.69	---	19.24	---	18.51	---	18.84	19.22	---
MAX	19.22	19.75	19.93	19.87	19.88	19.71	19.61	19.03	18.71	18.91	19.22	19.58

WTR YR 1983 MEAN 19.20 HIGH 18.36 LOW 19.93

DELAWARE COUNTY

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 Engineers.
AQUIFER.--Limestone of Devonian Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in (0.3 m), depth 135 ft (41.1 m), cased.
DATUM.--Altitude of land-surface datum is 900 ft (374 m), from topographic map. Measuring point: Floor of instrument shelter 2.60 ft (0.792 m) 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 (11.290 m) Nov. 1, 1948, Dec. 2, 3, 1948; minimum daily low, 20.43 ft (6.227 m) Jan. 27, 1959.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 31.94 ft (9.735 m) Sept. 24; minimum daily low, 26.67 ft (8.129 m) May 8.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.47	31.50	31.03	31.14	31.55	31.75	31.71	30.48	30.69	31.01	31.31	31.77
2	31.44	31.34	31.19	31.27	31.39	31.79	31.66	30.16	30.77	30.93	31.33	31.79
3	31.43	31.33	31.30	31.33	31.22	31.81	31.55	29.62	30.79	30.94	31.32	31.80
4	31.45	31.34	31.33	31.33	31.04	31.79	31.59	29.18	30.85	30.89	31.32	31.81
5	31.47	31.26	31.38	31.36	31.14	31.81	31.53	28.91	30.88	30.72	31.32	31.80
6	31.49	31.26	31.49	31.39	31.16	31.78	31.34	27.60	30.91	30.82	31.33	31.83
7	31.45	31.25	31.51	31.53	31.41	31.77	31.26	26.84	30.94	30.93	31.33	31.86
8	31.41	31.38	31.62	31.57	31.43	31.74	31.13	26.67	31.00	31.01	31.33	31.87
9	31.28	31.41	31.63	31.57	31.48	31.74	30.88	27.04	31.03	31.03	31.39	31.85
10	31.24	31.41	31.59	31.56	31.49	31.75	30.62	28.00	31.06	31.06	31.45	31.85
11	31.25	31.39	31.64	31.58	31.58	31.77	30.32	28.92	31.07	31.09	31.42	31.84
12	31.28	31.44	31.69	31.69	31.66	31.79	30.13	29.33	31.07	31.14	31.47	31.86
13	31.23	31.51	31.70	31.67	31.67	31.78	30.04	29.60	31.07	31.20	31.51	31.88
14	31.21	31.47	31.70	31.67	31.60	31.78	30.15	29.84	31.05	31.21	31.53	31.91
15	31.35	31.50	31.67	31.69	31.61	31.84	30.16	29.99	31.03	31.21	31.53	31.91
16	31.45	31.37	31.30	31.72	31.61	31.84	29.81	30.17	31.09	31.23	31.54	31.84
17	31.49	31.37	30.81	31.69	31.65	31.80	29.88	30.21	31.13	31.24	31.55	31.89
18	31.48	31.38	30.74	31.78	31.67	31.76	30.02	30.30	31.13	31.25	31.54	31.88
19	31.49	31.38	30.61	31.87	31.54	31.76	30.34	30.33	31.12	31.27	31.57	31.91
20	31.46	31.37	30.53	31.88	31.59	31.79	30.42	30.38	31.11	31.28	31.60	31.89
21	31.52	31.37	30.34	31.88	31.63	31.76	30.50	30.55	31.11	31.27	31.62	31.88
22	31.54	31.32	31.03	31.86	31.64	31.72	30.63	30.57	31.02	31.27	31.63	31.91
23	31.54	30.86	31.07	31.83	31.61	31.75	30.64	30.57	31.02	31.20	31.66	31.93
24	31.54	30.89	31.09	31.78	31.62	31.73	30.70	30.54	31.07	31.23	31.69	31.94
25	31.52	30.88	30.97	31.78	31.68	31.78	30.64	30.53	31.17	31.23	31.71	31.91
26	31.54	31.07	30.96	31.64	31.76	31.82	30.83	30.42	31.24	31.25	31.71	31.89
27	31.53	31.13	30.91	31.67	31.76	31.73	30.85	30.60	31.26	31.29	31.70	31.89
28	31.51	31.07	30.53	31.74	31.70	31.75	30.91	30.69	31.24	31.29	31.71	31.91
29	31.48	30.89	29.97	31.71	---	31.81	30.93	30.70	31.14	31.31	31.72	31.93
30	31.53	30.61	30.51	31.71	---	31.75	30.91	30.67	31.11	31.31	31.73	31.91
31	31.51	---	30.99	31.71	---	31.63	---	30.62	---	31.30	31.74	---
MAX	31.54	31.51	31.70	31.88	31.76	31.84	31.71	30.70	31.26	31.31	31.74	31.94

WTR YR 1983 MEAN 31.23 HIGH 26.67 LOW 31.94

FAIRFIELD COUNTY

394257082362900. Local number, F-6.
LOCATION.--Lat 39°42'57", long 82°36'29", Hydrologic Unit 05030204, near Hocking River in well field at Lancaster. Owner: Lancaster Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (0.3 m), depth 108 ft (32.9 m), cased.
DATUM.--Altitude of land-surface datum is 820 ft (250 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--June 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded daily low, 27.00 ft (8.230 m) Nov. 11-12, 1982; minimum daily low, 16.40 ft (4.999 m) June 25, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 27.00 ft (8.230 m) Nov. 11-12; minimum recorded daily low, 19.00 ft (5.791 m) July 31.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.30	---	24.65	22.30	24.50	23.15	23.70	22.20	20.75	21.45	20.45	21.35
2	24.75	---	25.05	22.00	23.85	22.80	23.25	21.85	20.55	20.50	21.00	22.55
3	24.95	---	24.45	21.95	23.55	23.65	22.45	23.50	20.85	19.45	21.20	22.60
4	25.75	---	22.75	22.55	23.75	23.70	23.60	21.00	20.35	19.90	20.15	21.00
5	25.85	---	23.00	22.55	23.95	23.30	23.10	22.65	20.20	20.55	21.90	21.20
6	24.85	---	---	23.35	23.85	22.90	23.45	22.45	19.95	19.90	21.50	22.65
7	25.60	---	---	21.75	24.00	23.70	22.80	21.55	20.40	21.10	21.00	23.10
8	24.20	---	23.95	21.85	23.35	23.40	23.35	21.25	21.15	21.15	20.70	23.15
9	23.95	---	23.70	23.15	23.95	23.40	23.10	22.25	20.75	20.00	22.35	23.05
10	23.50	---	23.60	23.00	23.85	24.25	23.40	22.35	21.00	20.40	22.05	22.85
11	23.45	---	23.10	22.90	23.25	23.50	21.55	22.65	21.00	21.20	20.95	22.80
12	24.00	27.00	23.50	23.15	23.35	22.70	23.75	23.20	20.75	20.45	21.25	22.60
13	24.50	25.90	23.45	22.85	23.25	22.70	23.10	21.75	21.10	20.75	20.40	22.75
14	---	24.80	24.65	23.50	23.15	22.80	23.10	21.10	21.15	20.55	20.30	22.45
15	---	25.80	23.65	22.90	23.70	22.50	23.65	21.00	21.05	20.45	21.70	22.75
16	---	24.75	23.80	23.40	23.75	22.95	23.05	20.80	21.35	20.55	21.90	22.95
17	---	25.40	23.75	23.55	24.15	23.55	22.70	21.25	21.15	20.00	20.20	20.90
18	---	25.80	23.85	23.50	23.30	23.40	22.05	21.25	21.15	20.55	21.20	21.85
19	---	25.50	23.25	24.05	23.35	23.45	22.05	21.55	20.85	20.00	21.85	22.55
20	---	25.00	23.25	24.90	23.25	22.45	23.30	21.35	20.15	21.25	21.90	22.70
21	---	24.10	23.35	24.50	23.05	24.00	23.40	20.85	20.85	20.40	22.05	22.60
22	---	24.95	22.90	23.90	23.75	24.40	23.55	21.15	21.15	22.05	22.00	23.25
23	---	25.75	23.65	23.60	23.45	24.10	22.75	20.65	20.95	21.20	21.45	22.65
24	---	---	23.85	24.20	24.10	24.85	22.85	20.40	21.25	21.65	22.65	20.80
25	---	---	23.60	24.25	23.40	24.95	22.15	19.80	21.15	21.60	22.50	21.10
26	---	---	22.45	24.75	22.05	24.35	23.15	20.75	20.45	20.45	23.15	21.45
27	---	---	22.95	24.00	22.85	23.95	23.05	20.40	21.25	22.35	22.70	21.45
28	---	---	22.50	24.45	22.65	23.65	22.40	20.50	20.95	21.10	---	21.55
29	---	---	22.00	23.15	---	23.95	23.55	19.15	21.35	20.80	---	23.30
30	---	---	22.30	23.65	---	23.95	23.20	19.55	21.45	20.45	---	22.55
31	---	---	22.55	24.10	---	23.70	---	20.00	---	19.00	22.55	---
MAX	25.85	27.00	25.05	24.90	24.50	24.95	23.75	23.50	21.45	22.35	23.15	23.30

WTR YR 1983 MEAN 22.55 HIGH 19.00 LOW 27.00

FAIRFIELD COUNTY--Continued

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 (0.15 m), depth 84 ft (25.6 m), cased.
DATUM.--Altitude of land-surface datum is 980 ft (299 m), from topographic map. Measuring point: Floor of instrument shelter 8.02 ft (2.444 m) above land-surface datum.
PERIOD OF RECORD.--March 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 19.81 ft (6.038 m) Mar. 1-4, 1964; minimum daily low, 7.27 ft (2.216 m) May 5-6, 1962.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 18.85 ft (5.745 m) Nov. 2-3; minimum daily low, 11.58 ft (3.530 m) May 8.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.49	18.82	18.51	14.83	15.24	14.31	15.80	13.52	---	14.99	16.79	17.95
2	18.46	18.85	18.44	14.73	15.17	14.31	15.77	13.46	12.69	15.11	16.82	17.95
3	18.44	18.85	18.35	14.61	15.00	14.38	15.78	13.25	12.71	15.17	16.84	18.02
4	18.44	---	18.21	14.63	15.00	14.46	15.93	12.78	12.88	15.26	16.88	18.02
5	18.43	---	18.13	14.59	15.00	14.51	15.96	12.21	12.96	15.38	16.92	18.05
6	---	---	17.98	14.53	14.93	14.50	15.96	11.92	13.08	15.50	17.00	18.08
7	---	---	18.01	14.50	14.71	14.54	15.91	11.72	13.16	15.57	17.01	18.15
8	18.48	---	17.99	14.60	14.64	14.62	15.90	11.58	13.35	15.60	17.08	18.25
9	18.48	---	17.89	14.60	14.57	14.64	15.76	11.69	13.42	15.71	17.14	18.25
10	18.48	---	17.79	14.56	14.46	14.72	15.64	11.73	13.54	15.72	17.20	18.25
11	18.52	---	17.64	14.52	14.44	14.81	15.36	11.78	13.74	15.83	17.20	18.25
12	18.56	---	17.61	14.57	14.35	14.84	15.04	11.91	13.81	15.91	17.24	18.25
13	18.58	---	17.61	14.65	14.35	14.90	14.55	12.01	13.94	15.98	17.31	18.25
14	18.55	---	17.53	14.67	14.35	15.03	14.39	12.07	14.01	16.04	17.35	18.25
15	18.56	---	17.47	14.67	14.32	15.18	14.14	12.13	14.10	16.08	17.46	18.30
16	18.65	---	17.36	14.73	14.32	15.19	14.00	12.34	14.22	16.16	17.50	18.30
17	18.67	---	17.33	14.74	14.29	15.21	13.80	---	14.22	16.20	17.51	18.30
18	18.68	---	17.31	14.86	14.29	15.20	13.53	---	14.26	16.20	17.51	18.30
19	18.69	---	17.10	14.88	14.29	15.22	13.41	---	14.29	16.23	17.51	18.35
20	18.69	---	16.95	14.95	14.29	15.26	13.29	---	14.40	16.25	17.60	18.38
21	18.73	---	16.84	14.99	14.31	15.35	13.18	---	14.44	16.32	17.60	18.38
22	18.76	---	16.77	14.97	14.31	15.45	13.16	---	14.49	16.36	17.66	18.38
23	18.81	---	16.52	14.97	14.29	15.53	13.16	---	14.54	16.36	17.69	18.38
24	18.81	---	16.34	15.01	14.26	15.57	13.14	---	14.64	16.34	17.69	18.43
25	18.81	---	16.19	15.05	14.26	15.60	13.18	---	14.74	16.44	17.75	18.43
26	18.83	---	16.00	15.08	14.27	15.66	13.26	---	14.78	16.49	17.76	18.48
27	18.83	---	15.89	15.12	14.29	15.66	13.29	---	14.87	16.49	17.76	18.50
28	18.81	---	15.57	15.14	14.32	15.64	13.43	---	14.90	16.63	17.78	18.50
29	18.82	---	15.34	15.22	---	15.72	13.53	12.42	14.94	16.65	17.80	18.59
30	18.82	---	15.11	15.22	---	15.75	13.54	---	15.00	16.68	17.84	18.59
31	18.82	---	15.01	15.16	---	15.76	---	---	---	16.71	17.88	---
MAX	18.83	18.85	18.51	15.22	15.24	15.76	15.96	13.52	15.00	16.71	17.88	18.59

WTR YR 1983 MEAN 15.87 HIGH 11.58 LOW 18.85

FAIRFIELD COUNTY--Continued

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 (0.3 m), depth 180 (54.9 m), cased.
DATUM.--Altitude of land-surface datum is 850 ft (259 m), from topographic map. Measuring point: Floor of instrument shelter 3.5 ft (1.067 m) 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, 30.70 ft (9.357 m) Aug. 30, 1982; minimum daily low, 0.98 ft (0.299 m) above land surface Nov. 7, 1979.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 29.80 ft (9.083 m) Oct. 27; minimum daily low, 5.50 ft (1.676 m) Dec. 25.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.50	25.00	11.00	6.90	8.70	7.80	9.00	6.60	8.10	22.60	27.30	28.20
2	20.50	26.70	10.70	6.90	8.50	7.30	9.20	6.10	8.60	22.80	27.30	28.20
3	20.90	27.30	10.70	7.70	8.20	8.30	9.20	6.30	9.10	22.70	26.30	27.70
4	21.80	26.30	10.00	8.00	8.50	7.10	8.60	7.10	9.70	21.90	27.90	27.50
5	22.40	22.50	9.20	8.40	8.70	6.90	7.80	7.90	9.90	14.20	28.60	26.40
6	22.80	25.90	9.70	8.90	8.00	6.90	8.80	10.50	13.30	13.70	26.60	26.30
7	23.10	25.20	10.50	9.00	8.20	7.00	10.30	9.60	13.70	13.70	26.30	26.30
8	24.30	26.00	10.50	8.70	7.70	6.90	10.20	9.70	14.00	13.80	28.80	26.60
9	18.10	23.10	10.10	8.50	7.90	7.00	9.80	10.80	13.50	14.80	26.70	26.70
10	15.50	23.10	9.70	9.10	8.30	7.70	10.10	11.30	14.10	14.90	26.90	26.70
11	16.30	23.60	11.10	7.70	7.70	7.70	9.30	12.80	14.40	14.20	26.50	26.50
12	15.60	23.20	9.50	8.30	7.80	7.40	9.10	13.80	14.50	12.90	26.50	26.50
13	14.50	21.90	10.50	8.50	7.90	9.20	9.20	11.90	19.40	12.00	26.50	26.10
14	13.30	21.80	10.60	10.10	8.20	7.70	9.00	11.00	21.20	25.60	26.30	26.10
15	15.60	21.70	11.40	7.90	6.60	8.30	8.00	10.50	22.50	26.30	26.40	26.40
16	13.90	21.90	10.10	7.60	7.90	7.70	7.60	11.70	22.80	23.20	26.40	26.50
17	12.30	16.40	9.70	7.70	7.80	7.70	6.90	12.40	23.40	23.20	26.50	26.50
18	19.10	14.90	9.10	8.30	8.40	8.10	7.50	9.40	23.50	21.50	26.70	26.60
19	20.50	13.60	9.20	8.70	8.20	7.50	7.90	8.70	24.00	15.50	26.50	26.80
20	21.20	14.50	10.60	10.10	8.10	7.10	8.70	8.80	24.00	14.00	26.90	26.80
21	22.00	12.10	11.70	7.50	9.50	7.00	9.30	7.80	16.10	21.00	26.70	27.60
22	23.70	11.50	10.40	7.90	9.40	6.50	9.70	8.10	19.60	22.20	26.60	27.80
23	25.70	11.90	9.70	7.80	11.70	7.00	8.90	9.40	20.60	23.10	26.50	27.60
24	25.20	11.50	10.10	8.20	10.80	7.80	8.70	8.10	21.20	23.30	26.90	27.20
25	27.70	10.90	5.50	8.30	10.00	7.50	10.10	8.10	21.50	24.10	26.50	26.90
26	28.90	10.00	8.40	9.10	9.90	6.10	9.70	8.40	21.70	24.50	26.40	26.90
27	29.80	8.80	8.70	9.20	9.70	6.20	11.70	8.90	21.90	24.90	26.50	28.90
28	28.90	9.50	7.90	9.70	9.10	6.30	9.30	8.20	22.00	24.90	26.70	27.20
29	26.80	14.70	8.70	8.70	---	7.70	7.50	7.90	22.30	27.30	---	27.20
30	26.70	11.40	8.40	8.50	---	9.60	6.90	7.50	22.40	27.90	---	27.30
31	26.20	---	7.50	9.20	---	8.70	---	7.70	---	28.00	28.70	---
MAX	29.80	27.30	11.70	10.10	11.70	9.60	11.70	13.80	24.00	28.00	28.80	28.90

WTR YR 1983 MEAN 15.34 HIGH 5.50 LOW 29.80

FAYETTE COUNTY

393153083322000. Local number, FA-1.
LOCATION.--Lat 39°31'53", long 83°32'20", Hydrologic Unit 05060003, Burnett-Perill Road about 6 mi (9.6 km) west of Washington Court House.
Owner: Martha Slagle.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in (0.13 m), depth 78 ft (23.8 m), cased.
DATUM.--Altitude of land-surface datum is 1010 ft (308 m), from topographic map. Measuring point: Floor of instrument shelter 3.30 ft (1.006 m) 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 (4.100 m) Sep. 30 1982; minimum daily low, 3.26 ft (0.994 m) Apr. 28, 1964.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 11.95 ft (3.642 m) Oct. 1; minimum recorded daily low, 6.55 ft (1.996 m) June 1, 2.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.95	10.95	10.80	8.50	7.45	7.25	7.40	6.90	6.55	7.20	8.25	10.60
2	10.70	10.85	10.70	8.50	7.35	7.15	7.45	---	6.55	7.20	8.05	---
3	10.25	10.80	10.60	8.30	7.40	7.30	7.50	---	---	7.25	---	---
4	10.15	10.85	10.45	8.25	7.40	7.40	7.60	---	---	6.85	---	---
5	10.15	11.05	10.35	8.30	7.25	7.35	7.45	---	---	7.50	---	---
6	10.10	11.05	10.40	8.10	7.25	7.45	7.45	---	---	7.20	---	---
7	10.05	11.00	10.45	8.00	7.15	7.60	---	---	---	---	---	---
8	10.10	10.90	10.25	8.05	7.35	7.55	---	---	---	---	---	---
9	10.30	10.80	10.25	7.90	7.20	7.35	---	---	---	---	---	---
10	10.10	10.85	10.05	7.75	7.30	7.40	---	---	7.45	---	---	---
11	10.30	10.95	10.45	7.85	7.15	7.30	---	6.55	7.40	---	---	---
12	10.25	10.90	10.05	7.80	---	7.35	---	---	7.10	---	---	---
13	10.30	10.80	10.05	7.90	---	7.25	---	---	7.20	8.05	---	---
14	10.25	11.15	9.95	7.80	---	7.40	---	---	7.45	7.60	---	---
15	10.25	10.95	9.95	8.05	---	7.50	---	---	8.40	8.05	---	---
16	10.25	11.00	9.65	7.75	---	7.70	---	---	8.95	8.35	---	---
17	10.35	10.85	9.85	7.90	---	7.65	---	---	8.60	8.55	---	---
18	10.25	11.10	9.60	7.75	---	7.40	---	---	7.40	7.65	---	---
19	10.70	10.85	9.70	7.90	---	---	---	---	7.25	7.55	---	---
20	10.55	11.00	9.40	7.85	---	---	---	---	7.05	7.50	---	---
21	10.55	10.85	9.50	7.70	7.30	---	---	---	7.50	7.75	---	---
22	10.55	10.90	9.20	7.55	7.25	---	---	---	7.10	7.50	---	---
23	10.60	10.85	9.35	7.65	7.15	---	---	---	7.10	7.80	---	---
24	10.55	11.05	9.40	7.65	7.20	---	---	---	7.05	7.80	---	---
25	10.70	11.00	9.25	7.65	7.20	---	---	---	7.25	7.60	---	---
26	10.75	10.95	9.20	7.55	7.15	---	---	---	7.00	7.85	---	9.90
27	10.65	10.95	9.10	7.70	7.45	---	---	---	7.20	7.85	---	9.95
28	10.65	10.90	8.70	7.75	7.25	---	---	---	7.50	7.65	---	9.90
29	10.65	10.65	8.75	7.60	---	---	---	---	7.15	7.95	---	9.95
30	11.00	10.80	8.55	7.45	---	---	6.90	---	7.40	8.45	---	9.90
31	11.05	---	8.60	7.50	---	7.50	---	---	---	8.40	9.10	---
MAX	11.95	11.15	10.80	8.50	7.45	7.70	7.60	6.90	8.95	8.55	9.10	10.60

WTR YR 1983 MEAN 8.77 HIGH 6.55 LOW 11.95

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

FRANKLIN COUNTY

395118082573300. Local number, FR-3.
LOCATION.--Lat 39°51'14", long 82°57'32", Hydrologic Unit 05060001, 0.7 mi (1.1 km) southwest of Reese.
Owner: R. Hann
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 12 in (0.3 m), depth drilled 60 ft (18.3 m), present depth 53 ft (16.2 m), cased.
DATUM.--Altitude of land-surface datum is 712.94 ft (217.304 m). Measuring point: Floor of instrument shelter 3.43 ft (1.045 m) 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 (6.325 m) July 7, 1966; minimum daily low, 0.0 ft (0.0 m) Jan. 22, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 29 1982	12.67	Jan. 28, 1983	12.16	Apr. 28, 1983	12.16	July 29, 1983	12.46
Nov. 30	11.15	Feb. 28	12.43	May 31	11.32	Aug. 30	12.63
Dec. 30	10.30	Mar. 30	12.45	June 30	11.79	Sept. 29	12.95

GROUND-WATER RECORDS

FRANKLIN COUNTY--Continued

395157083003500. Local number, FR-109.
LOCATION.--Lat 39°51'57", long 83°00'35", Hydrologic Unit 05060001, 6.6 mi (10.5 km) 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 (0.15 m), depth 92 ft (28.0 m), cased to 82 ft (25.0 m).
DATUM.--Altitude of land-surface datum is 702.24 ft (214.043 m). Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--July 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.36 ft (6.511 m) Nov. 19-21, 1982; minimum daily low, 12.43 ft (3.789 m) Mar. 27, 1978.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 21.36 ft (6.511 m) Nov. 19-21; minimum daily low, 15.63 ft (4.764 m) May 23.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.49	21.13	21.07	19.63	19.37	19.74	20.35	19.02	15.99	16.81	18.31	19.74
2	20.52	21.15	21.06	19.52	19.33	19.76	20.35	18.60	16.04	16.87	18.36	19.78
3	20.56	21.18	21.04	19.43	19.38	19.78	20.34	17.70	16.05	16.89	18.40	19.83
4	20.58	21.19	21.02	19.36	19.42	19.80	20.35	16.82	16.14	16.92	18.45	19.87
5	20.61	21.20	21.01	19.28	19.42	19.82	20.35	16.48	16.18	16.97	18.50	19.90
6	20.63	21.21	21.00	19.21	19.40	19.84	20.36	16.26	16.24	17.03	18.55	19.95
7	20.66	21.22	21.00	19.15	19.44	19.85	20.37	16.02	16.30	17.06	18.60	20.00
8	20.68	21.24	20.99	19.15	19.44	19.88	20.37	15.89	16.38	17.09	18.65	20.03
9	20.70	21.25	20.98	19.11	19.45	19.90	20.26	15.89	16.44	17.12	18.71	20.07
10	20.73	21.26	20.95	19.07	19.45	19.92	20.19	15.86	16.50	17.17	18.74	20.11
11	20.76	21.26	20.95	19.04	19.48	19.94	20.13	15.85	16.55	17.22	18.78	20.14
12	20.77	21.29	20.96	19.07	19.50	19.96	20.10	15.83	16.60	17.27	18.84	20.19
13	20.79	21.30	20.96	19.04	19.50	19.97	20.04	15.80	16.66	17.33	18.88	20.23
14	20.82	21.31	20.95	19.04	19.50	20.00	19.96	15.78	16.71	17.36	18.93	20.27
15	20.85	21.32	20.95	19.04	19.52	20.03	19.89	15.74	16.77	17.41	18.98	20.29
16	20.87	21.32	20.88	19.04	19.53	20.04	19.80	15.70	16.84	17.47	19.03	20.32
17	20.88	21.34	20.84	19.06	19.55	20.05	19.69	15.71	16.86	17.50	19.08	20.36
18	20.90	21.35	20.82	19.07	19.55	20.06	19.64	15.71	16.88	17.56	19.13	20.41
19	20.91	21.36	20.78	19.09	19.58	20.10	19.58	15.69	16.91	17.62	19.18	20.45
20	20.94	21.36	20.70	19.09	19.59	20.11	19.53	15.71	16.91	17.67	19.23	20.47
21	20.96	21.36	20.67	19.12	19.61	20.15	19.48	15.72	16.68	17.71	19.27	20.50
22	20.97	21.27	20.62	19.14	19.61	20.18	19.44	15.69	16.66	17.76	19.33	20.54
23	20.99	21.24	20.56	19.16	19.64	20.19	19.39	15.63	16.65	17.81	19.38	20.59
24	21.00	21.25	20.50	19.19	19.66	20.21	19.34	15.67	16.64	17.87	19.43	20.62
25	21.02	21.25	20.45	19.22	19.70	20.24	19.34	15.68	16.65	17.93	19.46	20.65
26	21.04	21.23	20.40	19.25	19.71	20.25	19.32	15.73	16.67	17.98	19.51	20.68
27	21.06	21.23	20.34	19.28	19.71	20.25	19.30	15.77	16.69	18.03	19.55	20.72
28	21.07	21.20	20.17	19.30	19.72	20.29	19.28	15.79	16.72	18.07	19.58	20.76
29	21.09	21.10	20.09	19.30	---	20.31	19.28	15.79	16.77	18.14	19.61	20.79
30	21.11	21.09	19.89	19.34	---	20.31	19.25	15.85	16.79	18.19	19.65	20.82
31	21.12	---	19.75	19.36	---	20.33	---	15.91	---	18.24	19.70	---
MAX	21.12	21.36	21.07	19.63	19.72	20.33	20.37	19.02	16.91	18.24	19.70	20.82

WTR YR 1983 MEAN 19.24 HIGH 15.63 LOW 21.36

FRANKLIN COUNTY--Continued

400101083021800. Local number, FR-10.
LOCATION.--Lat 40°01'01", long 83°02'18", Hydrologic Unit 05060001, Kenny and Ackerman Roads, Columbus.
Owner: Ohio State University..
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 4 in (0.1 m), depth 75 ft (22.9 m), cased.
DATUM.--Altitude of land-surface datum is 775 ft (236 m) from topographic map. Measuring point: Floor of instrument shelter 4.00 ft (1.219 m) 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 (14.691 m) Oct. 7, 1954; minimum daily low, 37.76 ft (11.509 m) Apr. 13, 1951.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 44.14 ft (13.454 m) Sep. 9; minimum daily low, 40.96 ft (12.485 m) May 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.91	43.15	42.68	42.35	42.13	41.89	41.92	41.61	41.16	42.12	42.84	43.53
2	42.96	42.99	42.69	42.40	41.92	41.87	41.79	41.50	41.18	42.15	42.92	43.53
3	42.98	42.96	42.67	42.43	41.94	41.92	41.84	41.45	41.15	42.19	42.92	43.55
4	43.12	43.05	42.57	42.37	42.21	41.89	42.01	41.43	40.98	42.18	42.98	43.87
5	43.11	43.03	42.50	42.26	42.22	41.89	42.01	41.59	41.02	42.14	42.93	43.75
6	43.15	43.11	42.77	42.22	42.08	41.84	41.90	41.58	41.00	42.33	42.93	43.48
7	43.15	43.10	42.83	42.29	42.09	41.80	41.93	41.51	41.11	42.51	43.19	43.86
8	43.28	43.09	42.86	42.28	42.13	41.74	41.92	41.53	41.38	42.53	42.92	43.96
9	43.12	43.06	42.89	42.19	42.09	41.79	41.85	41.66	41.37	42.36	43.27	44.14
10	42.88	43.06	42.68	41.98	42.06	41.84	41.79	41.63	41.58	42.34	43.09	44.05
11	42.91	43.04	42.62	42.24	42.15	41.89	41.84	41.71	41.94	42.62	42.98	43.88
12	43.16	42.90	42.66	42.22	42.26	41.94	41.90	41.70	41.74	42.73	43.14	43.86
13	43.15	43.02	42.67	42.23	42.24	41.92	41.83	41.74	41.98	42.71	43.17	43.89
14	43.00	43.02	42.59	42.17	42.04	41.84	41.76	41.66	42.08	42.70	43.25	44.04
15	42.80	42.96	42.56	42.19	41.99	41.93	41.81	41.40	41.91	42.70	43.27	44.12
16	42.96	43.04	42.61	42.10	41.97	41.98	41.82	41.34	42.04	42.58	43.78	44.09
17	43.01	42.94	42.61	42.32	42.06	41.92	41.75	41.43	41.77	42.82	43.52	43.83
18	43.04	42.92	42.58	42.42	42.05	41.84	41.65	41.55	41.73	42.58	43.21	43.79
19	43.03	42.91	42.37	42.43	42.04	41.81	41.66	41.50	41.75	42.53	43.46	43.82
20	42.92	42.90	42.42	42.37	42.10	41.85	41.67	41.36	41.80	42.64	43.46	43.79
21	43.10	42.83	42.52	42.22	42.10	41.79	41.70	41.36	41.94	42.95	43.58	43.78
22	43.12	42.80	42.53	42.08	42.00	42.07	41.71	41.28	42.13	42.86	43.33	43.78
23	43.10	42.78	42.46	42.07	41.87	42.12	41.65	41.14	42.17	42.62	43.50	43.94
24	43.08	42.88	42.46	42.14	41.88	42.11	41.54	41.29	42.19	42.68	43.58	43.92
25	43.03	43.00	42.46	42.21	42.09	42.13	41.56	41.33	42.31	42.62	43.81	43.86
26	43.40	42.99	42.55	42.21	42.18	42.16	41.66	41.21	42.07	43.13	43.72	43.83
27	43.22	42.95	42.55	42.22	42.18	42.00	41.63	41.24	42.20	43.12	43.50	43.78
28	43.14	42.95	42.36	42.18	42.05	41.96	41.64	41.52	42.05	43.03	43.41	43.78
29	43.06	42.58	42.46	42.03	---	42.18	41.74	41.22	42.16	43.19	43.44	43.74
30	43.10	42.66	42.52	42.15	---	42.17	41.67	40.96	42.08	43.18	43.46	43.62
31	43.25	---	42.49	42.16	---	42.00	---	41.05	---	42.93	43.42	---
MAX	43.40	43.15	42.89	42.43	42.26	42.18	42.01	41.74	42.31	43.19	43.81	44.14

WTR YR 1983 MEAN 42.46 HIGH 40.96 LOW 44.14

GROUND-WATER RECORDS

GALLIA COUNTY

383638082103300. Local number, G-2.
LOCATION.--Lat 38°36'38", long 82°10'33", Hydrologic Unit 05090101, 5.9 mi (9.5 km) 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 (0.3 m), depth 65 ft, (19.8 m), cased.
DATUM.--Altitude of land-surface datum is 552 ft (168 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--June 1975 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.94 ft (10.345 m) Oct. 4, 1982; minimum daily low 16.43 ft (5.008 m) Mar. 8, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4, 1982	33.36	Sept. 22, 1983	33.94

GREENE COUNTY

394411083561300. Local number, GR-1.
LOCATION.--Lat 39°44'11", long 83°56'13", Hydrologic Unit 05090202, along Massies Creek near U.S. 68 north of Xenia.
Owner: Xenia Water Deptartment.
AQUIFER.--Sand and Gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 30 in (0.75 m), depth 77 ft (23.5 m), cased.
DATUM.--Altitude of land-surface datum is 818.88 ft (249.595 m). Measuring point: Floor of instrument shelter 4.50 ft (1.372 m) 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 (6.584 m) July 7, 1916; minimum daily low, 0.70 ft (0.213 m) above land surface Aug. 3, 1958.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 11.94 ft (3.639 m) Mar. 31; minimum daily low, 3.95 ft (1.204 m) May 2.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.04	11.12	9.03	8.57	9.75	10.79	11.50	5.83	8.28	8.52	7.84	8.62
2	9.25	11.10	9.03	8.77	9.43	11.36	11.22	3.95	8.11	8.69	7.70	8.67
3	10.88	11.14	9.11	8.94	9.29	11.21	11.44	4.18	8.12	8.78	7.81	8.70
4	10.85	11.19	9.14	9.79	9.93	10.65	11.39	6.05	8.51	8.62	7.95	8.71
5	10.89	11.16	9.09	10.07	9.61	10.75	11.59	6.55	8.61	8.70	7.97	8.65
6	11.02	10.89	9.19	10.26	9.75	11.34	11.00	7.53	8.42	8.83	7.95	8.60
7	11.22	11.15	9.55	10.47	10.43	10.77	11.56	7.65	8.41	9.01	8.11	8.56
8	10.98	10.94	9.40	10.14	10.19	11.30	10.27	7.76	8.68	9.05	8.10	8.76
9	10.75	11.08	9.37	10.30	10.20	11.32	10.43	7.44	8.75	9.14	8.25	8.75
10	10.61	10.85	9.22	10.33	10.69	11.48	9.68	6.83	8.85	9.09	8.24	8.74
11	10.85	10.99	9.35	10.77	10.40	11.05	9.77	7.23	8.83	9.18	7.95	8.76
12	10.70	10.85	9.49	10.38	10.44	10.93	9.89	7.34	8.66	9.33	8.10	8.56
13	11.03	10.85	9.64	10.41	10.43	11.03	9.42	7.11	8.68	9.63	8.12	8.68
14	11.34	10.83	9.83	10.75	10.53	11.57	9.49	7.53	8.69	9.81	8.29	8.89
15	11.31	11.18	9.74	10.52	10.46	10.77	9.50	7.87	8.82	9.79	8.07	8.86
16	11.18	11.08	9.95	10.45	10.68	10.78	9.13	8.04	8.71	9.96	8.14	8.83
17	11.26	11.24	9.15	10.63	10.19	10.98	9.71	7.69	9.06	9.87	8.27	8.82
18	10.96	10.52	9.21	11.24	10.98	10.85	9.84	7.61	8.51	8.92	8.21	8.97
19	10.49	11.21	9.28	11.45	10.57	11.08	9.92	7.44	8.79	6.56	8.31	9.10
20	10.79	11.15	9.31	11.01	10.54	11.39	9.98	7.77	8.45	6.99	8.40	9.13
21	10.74	10.81	9.42	11.03	10.39	11.02	10.31	8.10	8.50	7.27	8.46	9.09
22	11.03	10.24	9.32	10.22	10.31	11.28	10.39	7.81	8.56	7.43	8.57	9.02
23	11.15	10.59	8.87	10.04	10.44	11.09	10.28	6.67	8.77	7.47	8.53	9.08
24	10.95	10.03	8.99	10.02	10.51	11.22	9.87	7.65	8.76	7.46	8.48	9.10
25	11.15	9.99	9.29	10.32	10.54	11.18	10.24	8.05	8.96	7.47	8.65	9.15
26	11.07	9.54	9.14	10.63	10.74	11.68	10.25	7.96	9.02	7.15	8.67	8.89
27	11.03	9.48	8.30	10.05	10.59	11.45	10.31	7.95	9.29	7.34	8.64	9.09
28	10.84	9.29	7.72	10.11	10.95	11.22	10.41	8.01	9.10	7.49	8.57	8.97
29	11.06	9.03	7.99	10.17	---	11.49	10.23	8.07	9.27	7.56	8.37	9.03
30	11.11	9.00	8.24	10.27	---	11.28	9.33	8.32	8.67	7.69	8.61	9.21
31	9.40	---	8.52	9.65	---	11.94	---	8.06	---	7.73	8.61	---
MAX	11.34	11.24	9.95	11.45	10.98	11.94	11.59	8.32	9.29	9.96	8.67	9.21

WTR YR 1983 MEAN 9.50 HIGH 3.95 LOW 11.94

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 (0.15 m), depth 100 ft (30 m), cased.
DATUM.--Altitude of land-surface datum is 835 ft (255 m), 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 (5.218 m) Nov. 5, 1977; minimum daily low, 0.15 ft (0.046 m) Feb. 1, 1982.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 12.62 ft (3.847 m) Oct. 1; minimum daily low, 2.99 ft (0.991 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.62	10.06	9.46	8.68	8.97	8.97	8.28	6.09	7.07	6.48	6.76	6.15
2	11.28	9.77	9.53	8.80	8.88	9.05	8.23	3.79	7.14	6.61	6.78	6.16
3	11.15	9.70	9.55	8.47	9.58	9.06	8.19	2.99	7.05	8.78	6.84	6.17
4	9.12	9.63	9.60	8.28	8.87	9.07	10.41	3.73	7.11	8.80	6.88	8.18
5	8.94	9.61	9.61	7.03	8.80	9.12	10.51	4.48	6.36	8.96	6.88	8.28
6	8.79	9.59	11.66	6.97	8.83	9.16	10.47	4.90	6.06	9.12	6.89	8.40
7	10.41	9.59	11.86	7.08	8.33	8.09	10.56	5.28	6.11	9.18	6.88	8.42
8	10.15	9.85	11.78	7.15	8.05	7.87	10.18	5.32	6.87	9.24	5.95	8.48
9	8.69	9.41	11.76	7.16	8.08	9.07	9.36	6.34	6.24	9.37	6.38	8.52
10	8.40	8.58	11.76	8.40	8.18	7.95	9.25	5.84	6.27	9.36	5.98	8.52
11	9.62	8.28	11.96	8.60	8.28	7.98	7.60	6.02	6.49	8.40	5.98	8.52
12	9.78	8.08	12.08	8.71	8.39	7.89	7.68	6.08	8.31	8.51	6.55	7.41
13	9.77	8.07	11.17	8.78	8.47	7.88	7.68	6.17	8.48	8.69	5.98	7.35
14	9.87	8.84	11.07	8.84	7.96	10.40	7.63	6.18	8.61	8.69	8.04	7.36
15	9.91	10.23	10.78	8.87	7.29	10.17	7.42	5.62	8.73	8.83	8.08	7.36
16	9.91	10.41	10.28	8.90	7.26	10.18	7.40	5.04	8.74	8.83	8.17	7.35
17	9.90	10.48	10.59	8.02	7.27	10.25	6.33	5.17	8.79	8.91	8.26	7.34
18	9.19	10.60	10.28	7.80	7.24	10.25	6.44	5.22	8.57	7.13	8.31	7.68
19	10.10	10.56	10.32	8.97	7.27	10.36	6.55	5.29	6.94	3.72	8.35	6.37
20	10.29	10.54	8.97	9.08	7.28	10.28	6.55	5.40	7.30	4.50	8.40	6.36
21	9.62	10.41	9.24	9.01	9.45	9.45	6.76	5.36	7.48	4.90	8.45	6.35
22	9.85	9.06	8.80	8.02	9.59	9.47	7.95	7.38	7.61	5.74	7.31	6.35
23	8.51	9.05	9.16	7.91	9.65	9.53	6.95	7.56	7.70	5.30	7.33	6.52
24	8.49	10.69	9.13	7.32	9.70	9.50	9.08	7.46	7.77	7.06	7.29	6.39
25	11.97	10.62	9.15	7.19	9.76	9.56	9.26	7.60	7.86	7.07	7.33	8.43
26	10.70	10.84	8.87	7.04	9.78	9.60	9.37	7.73	7.88	6.88	7.32	8.54
27	10.71	10.88	9.16	7.11	9.78	9.59	9.43	7.74	7.29	7.14	7.30	8.65
28	12.08	10.80	8.69	6.90	8.91	8.38	9.44	7.78	6.78	7.45	7.27	8.70
29	10.77	10.03	8.40	6.89	---	8.31	9.47	6.76	6.78	7.59	6.16	8.69
30	10.79	9.47	8.48	6.90	---	8.29	9.40	6.87	6.73	7.66	6.17	8.75
31	10.82	---	8.61	9.06	---	8.30	---	6.96	---	7.68	6.16	---
MAX	12.62	10.88	12.08	9.08	9.78	10.40	10.56	7.78	8.79	9.37	8.45	8.75

WTR YR 1983 MEAN 8.31 HIGH 2.99 LOW 12.62

HAMILTON COUNTY

391039084291500. Local number, H-11.
LOCATION.--Lat 39°10'39", long 84°29'15", Hydrologic Unit 05090203, 5.6 mi (9.0 km) 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 (0.15 m), depth 148 ft (45.1 m), cased.
DATUM.--Altitude of land-surface datum is 539 ft (164 m), from topographic map.
Measuring point: floor of instrument shelter 2.23 ft (0.680 m) above land-surface datum.
PERIOD OF RECORD.--August 1939 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 129.72 ft (39.539 m) Oct 25, 1948; minimum daily low, 72.75 ft (22.174 m) Sept. 30, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4, 1982	73.90	May 1, 1983	75.48	Sept. 30, 1983	72.75

HAMILTON COUNTY-Continued

391101084172100. Local number, H-3.
LOCATION.--Lat 39°11'01", long 84°17'21", Hydrologic Unit 05090202, southeast of Miamiville.
Owner: Indian Hills Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 4 in (0.1 m), depth 60 ft (18.3 m), cased.
DATUM.--Altitude of land-surface datum is 532.22 ft (162.221 m). Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) 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 (10,897 m) Aug. 29, 1955; minimum daily low, 15.60 ft (4.755 m) Feb. 28, 1962.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 30.80 ft (9.388 m) Oct. 6-7; minimum daily low, 15.75 ft (4.801 m) May 3.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.80	27.75	25.30	24.15	24.05	25.20	25.45	23.00	24.15	23.75	28.30	26.95
2	29.90	27.85	25.60	23.95	24.05	25.20	27.05	19.25	24.30	24.20	28.30	26.90
3	30.00	27.50	25.65	25.15	23.20	25.30	27.05	15.75	24.45	24.60	28.55	27.20
4	30.35	27.65	25.60	25.05	23.25	25.30	26.50	17.85	24.15	24.60	28.60	27.25
5	30.75	27.05	25.65	24.60	23.25	25.15	27.00	19.45	24.20	24.25	28.65	27.15
6	30.80	27.10	25.65	24.80	23.45	25.50	27.10	20.80	24.45	24.05	27.80	27.65
7	30.80	27.40	25.75	24.85	23.55	25.30	26.90	21.55	24.60	24.30	26.95	27.35
8	29.35	27.40	25.75	25.05	23.80	25.10	25.50	21.20	24.80	24.65	26.65	27.45
9	29.95	27.65	25.60	25.05	23.85	25.10	24.45	21.60	25.30	26.80	26.75	27.55
10	29.00	27.75	25.95	25.10	24.10	25.00	---	21.80	25.45	27.45	26.85	30.15
11	29.85	27.75	25.80	25.10	24.15	25.25	---	22.00	25.70	28.10	26.65	30.50
12	29.25	27.55	26.10	25.25	24.20	25.25	24.65	22.20	25.90	27.80	26.45	28.25
13	29.75	26.85	25.95	25.25	24.25	25.70	24.00	22.35	26.00	28.15	26.20	27.70
14	29.35	27.00	26.75	25.90	24.45	25.55	---	22.45	26.00	28.50	26.30	27.35
15	30.10	26.45	27.20	25.90	24.45	25.40	---	22.40	25.90	29.15	26.40	27.10
16	29.45	26.15	25.90	25.55	24.40	25.45	22.80	20.40	25.85	29.55	26.55	26.95
17	30.25	26.15	25.50	26.15	24.35	25.60	---	21.15	25.65	29.30	26.65	27.10
18	30.40	26.15	25.25	26.15	24.40	25.60	---	21.55	25.30	27.75	26.70	26.85
19	30.60	26.20	25.20	26.05	24.40	25.85	25.15	21.75	24.95	27.10	27.00	27.00
20	29.25	26.30	25.15	26.20	24.60	26.05	24.05	22.00	24.35	25.40	27.25	27.00
21	30.15	27.25	25.10	26.20	24.60	26.05	24.20	22.15	24.00	25.45	28.45	27.00
22	29.65	27.25	25.00	26.10	24.60	25.35	24.10	22.15	24.00	25.80	28.70	26.75
23	30.30	26.00	25.00	24.40	24.80	25.50	24.25	21.65	24.45	27.00	28.65	27.40
24	29.50	25.50	25.20	23.90	24.75	25.55	24.10	22.20	26.20	25.60	28.95	26.75
25	30.45	25.45	25.10	23.90	24.80	25.55	24.40	22.95	25.45	25.45	29.35	26.70
26	30.75	25.60	24.55	24.15	25.00	25.60	24.50	23.40	25.70	25.85	29.30	26.85
27	30.70	25.60	23.90	24.20	25.00	25.55	24.60	23.75	25.75	26.30	29.40	26.85
28	30.40	25.60	22.65	24.35	25.00	25.65	24.60	23.95	25.60	27.10	29.10	27.05
29	30.30	25.40	24.10	24.65	---	25.65	24.75	24.00	25.30	27.65	28.50	27.25
30	30.35	26.25	23.35	24.60	---	25.70	24.75	23.75	23.70	28.00	28.30	27.30
31	27.65	---	24.00	24.15	---	25.65	---	23.95	---	28.50	27.60	---
MAX	30.80	27.85	27.20	26.20	25.00	26.05	27.10	24.00	26.20	29.55	29.40	30.50

WTR YR 1983 MEAN 25.88 HIGH 15.75 LOW 30.80

HAMILTON COUNTY--Continued

391201084281600. Local number, H-10.
LOCATION.--Lat 39°12'01", long 84°28'16", Hydrologic Unit 05090203, Section Road, Cincinnati.
Owner: National Distillers.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.2 m), depth 170 ft (51.8 m), cased.
DATUM.--Altitude of land-surface datum is 544.7 ft (166.025 m). Measuring point: Floor of instrument shelter 8.13 ft (2.478 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--January 1944 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 121.58 ft (37.058 m) Nov. 3, 10, 1950; minimum daily low, 64.37 ft (19.620 m) June 28, 30, 1983.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 67.16 ft (20.470 m) Oct. 20; minimum daily low, 64.37 ft (19.620 m) June 28, 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65.53	65.46	65.52	65.49		---	65.14	65.05	64.68	64.45		
2	65.47	65.39	65.57	65.43		---	64.90	64.91	64.71	64.47		
3	65.46	65.50	65.50	65.53		---	65.26	64.92	64.58	64.48		
4	65.49	65.57	65.47	65.56		---	65.38	65.01	64.56	64.41		
5	65.54	65.66	65.32	65.44		---	65.33	65.11	64.58	64.41		
6	65.57	65.71	65.71	65.33		---	65.21	65.13	64.55	---		
7	65.46	65.66	65.81	65.47		---	65.25	64.92	64.56	---		
8	65.45	65.63	65.77	65.49		---	65.20	65.10	64.59	---		
9	65.36	65.68	65.84	65.36		---	65.12	65.14	64.63	---		
10	65.42	65.61	65.59	65.16		---	65.14	65.12	64.67	---		
11	65.53	65.50	65.50	65.53		---	65.24	65.01	64.67	---		
12	65.57	65.58	65.58	65.46		---	65.27	64.89	64.61	---		
13	65.48	65.80	65.61	65.41		---	65.13	64.82	64.56	---		
14	65.45	65.64	65.49	65.60		---	65.14	64.75	64.51	---		
15	65.44	65.78	65.44	65.67		---	66.79	64.81	64.45	---		
16	65.65	65.64	65.60	65.29		---	65.41	64.92	64.50	---		
17	65.71	65.56	65.64	65.22		---	65.24	66.05	64.50	---		
18	65.65	65.57	65.48	65.32		---	65.11	66.34	64.46	---		
19	66.84	65.54	65.36	65.41		---	65.14	64.85	64.46	---		
20	67.16	65.50	65.45	65.43		---	65.15	64.85	64.49	---		
21	65.87	65.49	65.58	65.39		---	65.15	64.78	65.93	---		
22	65.85	66.95	65.54	65.25		---	65.14	64.64	64.58	---		
23	65.81	65.56	65.42	65.39		---	65.02	64.76	64.54	---		
24	65.77	65.86	65.46	65.34		---	65.02	64.81	64.47	---		
25	65.67	65.85	65.45	65.29		---	65.06	64.71	64.42	---		
26	65.74	65.71	65.63	---		---	65.13	64.73	64.45	---		
27	65.67	65.76	65.50	---		---	65.07	64.75	64.40	---		
28	65.60	65.49	65.45	---		---	65.12	64.67	64.37	---		
29	65.53	65.42	65.59	---		---	65.11	64.51	64.40	---		
30	65.56	65.49	65.67	---		---	65.03	64.51	64.37	---		
31	65.52	---	65.50	---		65.13	---	64.57	---	---		
MAX	67.16	66.95	65.84	65.67		65.13	66.79	66.34	65.93	64.48		

WTR YR 1983 MEAN 65.27 HIGH 64.37 LOW 67.16

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

HAMILTON COUNTY--Continued

391214084470100. Local number, H-1.
LOCATION.--Lat 39°12'14", long 84°47'01", Hydrologic Unit 05080003, Kilby Road 4 mi (6.4 km) southeast of Harrison.
Owner: Robert Weber.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 124 ft (37.8 m), cased.
DATUM.--Altitude of land-surface datum is 500 ft (152 m), from topographic map. Measuring point: Floor of instrument shelter 2.70 ft (0.823 m) 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 (7.864 m) Jan. 18-20, 1964; minimum daily low, 14.00 ft (4.267 m) Jan. 22, 1959.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 24.67 ft (7.519 m) Sep. 26-27; minimum daily low, 17.78 ft (5.419 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.28	24.09	23.97	22.21	22.75	23.13	23.21	22.00	21.53	22.40	23.44	24.14
2	24.30	24.27	23.99	22.25	22.76	23.12	23.20	18.40	21.62	22.43	23.49	24.17
3	24.33	24.49	24.00	22.45	21.99	23.15	23.03	17.78	21.64	22.49	23.52	24.19
4	24.35	24.56	24.00	22.68	22.14	23.18	22.88	18.84	21.56	22.53	23.53	24.20
5	24.38	24.60	23.98	22.80	22.25	23.21	22.91	19.30	21.66	22.46	23.55	24.24
6	24.39	24.61	23.96	22.85	22.28	23.21	22.92	19.58	21.73	22.42	23.58	24.27
7	24.41	24.26	23.86	22.89	22.57	23.21	22.90	19.71	21.79	22.51	23.56	24.30
8	24.42	24.22	23.98	22.95	22.61	23.19	22.72	19.66	21.87	22.55	23.59	24.32
9	24.43	24.37	24.01	22.99	22.67	23.19	21.68	19.75	21.92	22.58	23.62	24.33
10	24.45	24.40	24.05	23.00	22.71	23.21	21.93	19.76	21.98	22.63	23.64	24.35
11	24.48	24.41	24.08	23.04	22.74	23.23	22.07	19.60	22.02	22.68	23.66	24.38
12	24.49	24.42	24.14	23.08	22.77	23.24	22.18	19.64	22.07	22.75	23.59	24.40
13	24.51	24.43	24.16	23.11	22.78	23.25	22.24	20.23	22.12	22.84	23.63	24.43
14	24.52	24.44	24.18	23.18	22.81	23.27	22.23	20.32	22.16	22.87	23.67	24.45
15	24.55	24.45	24.19	23.21	22.84	23.32	21.11	20.21	22.19	22.89	23.70	24.47
16	24.56	24.46	23.91	23.27	22.84	23.33	21.60	19.98	22.19	22.92	23.73	24.49
17	24.58	24.47	23.61	23.28	22.86	23.36	21.83	20.42	22.24	22.96	23.76	24.51
18	24.42	24.49	23.62	23.30	22.88	23.36	21.98	20.60	22.27	23.00	23.79	24.53
19	24.30	24.50	23.62	23.33	22.91	23.36	22.07	20.73	22.29	23.02	23.81	24.55
20	24.27	24.50	23.59	23.37	22.94	23.36	22.16	20.84	22.29	23.03	23.83	24.57
21	24.22	24.49	23.59	23.37	22.98	23.32	22.23	20.91	22.16	23.06	23.87	24.58
22	24.18	24.39	23.69	23.36	23.01	22.99	22.29	20.91	22.25	23.11	23.89	24.60
23	24.17	24.11	23.72	22.46	23.03	23.03	22.31	20.95	22.35	23.14	23.93	24.62
24	24.16	24.08	23.72	22.42	23.06	23.09	22.21	21.04	22.36	23.17	23.96	24.63
25	24.16	24.08	23.69	22.48	23.09	23.13	22.24	21.13	22.37	23.22	23.99	24.64
26	24.16	24.22	23.09	22.54	23.12	23.14	22.46	21.18	22.43	23.24	24.02	24.67
27	24.16	24.24	22.88	22.78	23.13	23.15	22.52	21.06	22.47	23.27	24.03	24.67
28	24.18	24.24	21.50	22.84	23.15	23.16	22.56	21.07	22.51	23.31	24.05	24.63
29	24.18	23.88	21.84	22.88	---	23.19	22.58	21.10	22.51	23.35	24.07	24.63
30	24.12	23.84	22.04	22.89	---	23.19	22.58	21.23	22.35	23.38	24.10	24.66
31	24.10	---	22.14	22.68	---	23.20	---	21.38	---	23.41	24.12	---
MAX	24.58	24.61	24.19	23.37	23.15	23.36	23.21	22.00	22.51	23.41	24.12	24.67

WTR YR 1983 MEAN 23.08 HIGH 17.78 LOW 24.67

HAMILTON COUNTY--Continued

391324084272500. Local number, H-9.
LOCATION.--Lat 39°13'24", long 84°27'25", Hydrologic Unit 05090203, 9.1 mi (14.6 km) 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 (0.25 m), depth drilled 168 ft (51.2 m) present depth 163 ft (49.7 m), cased.
DATUM.--Altitude of land-surface datum is 555.30 ft (169.255 m). Measuring point: Floor of instrument shelter, 2.76 ft (0.841 m) above land-surface datum.
PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 136.80 ft (41.697 m) Nov. 9, 1947, Feb. 15, 1948; minimum, daily low, 67.57 ft (20.595 m) Sept. 30, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4, 1982	69.80	May 1, 1983	68.22	Sept. 30, 1983	67.57

HAMILTON COUNTY--Continued

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 (0.2 m), depth 194 ft (59.1 m), cased.
DATUM.--Altitude of land-surface datum is 576.2 ft (175.626 m). Measuring point: Top of platform 3.30 ft (1.006 m) 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 (45.373 m) Dec. 1, 1948; minimum daily low, 91.05 ft (27.752 m) May 3, 1983.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 102.20 ft (31.151 m) Aug. 20; minimum daily low, 91.50 ft (27.752 m) May 3.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99.05	96.00	98.75	95.65	95.15	94.90	92.45	91.40	94.30	95.90	97.55	96.90
2	---	99.10	99.65	95.65	94.40	95.00	92.05	91.10	94.30	99.40	101.00	96.95
3	---	99.75	95.55	95.15	94.95	95.05	92.25	91.05	94.20	100.05	97.85	97.00
4	---	99.00	95.55	95.55	95.40	94.90	92.25	91.15	94.30	95.70	100.95	97.10
5	---	98.80	95.35	95.60	95.85	94.85	92.25	91.35	94.40	95.45	101.75	100.90
6	---	96.40	95.90	95.35	95.10	94.75	92.25	91.15	94.35	98.85	---	96.95
7	---	96.30	95.60	95.40	95.10	94.65	92.20	91.40	94.80	95.85	---	97.30
8	---	96.35	96.00	95.55	95.40	94.65	92.20	91.55	94.65	95.90	97.90	97.45
9	---	96.50	96.75	95.35	98.30	94.80	92.00	92.15	94.75	95.90	98.05	97.45
10	---	96.25	95.10	95.00	95.10	94.95	92.00	96.35	94.95	99.15	101.85	97.55
11	---	95.90	98.50	95.05	98.65	95.05	92.05	96.25	95.05	99.30	97.95	97.50
12	95.55	96.00	95.25	95.45	95.70	95.10	92.10	92.80	95.05	99.85	97.35	97.05
13	95.45	99.75	95.15	95.50	95.60	94.85	91.90	93.10	95.10	96.30	97.65	97.10
14	95.30	96.20	95.65	95.05	95.25	94.90	91.85	93.15	95.05	100.05	101.50	97.25
15	95.30	96.30	95.50	95.55	95.00	95.05	92.00	96.25	94.95	100.40	101.40	97.00
16	95.45	99.05	95.75	95.20	94.90	94.90	92.00	93.80	95.05	100.70	101.80	96.55
17	95.70	96.00	95.90	95.45	95.25	94.80	91.85	93.70	---	99.65	97.45	96.75
18	95.80	96.00	95.45	95.75	95.30	94.55	91.65	93.60	94.85	97.40	97.60	96.85
19	96.20	96.00	95.20	95.90	95.20	94.85	91.65	93.75	94.85	96.40	97.75	96.95
20	96.45	99.50	95.45	95.80	95.30	94.55	91.70	93.95	94.95	96.45	102.20	96.60
21	100.10	95.65	95.40	95.35	95.35	94.45	91.70	95.20	94.90	96.45	102.10	96.65
22	100.40	99.10	95.55	95.15	94.75	93.85	91.65	94.00	95.10	99.85	98.10	96.70
23	96.65	95.65	95.50	95.15	94.85	93.80	91.45	96.45	95.35	96.80	97.95	96.85
24	96.70	96.25	95.45	95.35	94.75	93.55	91.35	94.00	95.50	96.85	101.45	97.00
25	96.65	96.25	95.45	95.45	95.25	93.50	91.45	94.20	95.65	96.85	101.65	96.85
26	96.70	96.15	99.00	95.35	95.35	93.40	91.95	94.30	95.85	99.50	98.05	96.65
27	96.60	96.10	95.35	95.45	95.35	92.65	92.00	94.10	95.45	100.95	97.55	96.65
28	99.75	97.85	95.35	95.35	98.05	93.10	91.75	93.85	95.25	101.45	97.25	96.75
29	96.50	94.95	95.60	95.00	---	93.15	91.60	93.85	95.35	98.15	97.15	96.85
30	99.85	98.35	95.75	94.85	---	93.05	91.50	93.95	95.45	101.80	96.95	96.60
31	96.25	---	98.50	95.45	---	92.65	---	93.90	---	101.40	96.90	---
MAX	100.40	99.75	99.65	95.90	98.65	95.10	92.45	96.45	95.85	101.80	102.20	100.90

WTR YR 1983 MEAN 95.81 HIGH 91.05 LOW 102.20

HAMILTON COUNTY--Continued

391442084262900. Local number, H-7.
LOCATION.--Lat 39°14'42", long 84°26'29", Hydrologic Unit 05090203, at Evendale.
Owner: General Electric Corp.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in (0.15 m), depth 180 ft (54.9 m), cased.
DATUM.--Altitude of land-surface datum is 555.40 ft (159.286 m). Measuring point: Floor of instrument shelter 7.78 ft (2.371 m) 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 PERIOFD OF RECORD.--Maximum daily low, 101.09 ft (30.812 m) Jan. 29, 1964; minimum daily low, 43.17 ft (13.158 m) Apr. 13, 1941.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 55.60 ft (16.947 m) May 9; minimum daily low, 49.10 ft (14.966 m) Dec. 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.30	49.29	49.46	50.93		---	51.37	52.75	51.24	50.91	51.12	51.88
2	49.95	49.27	49.49	50.80		52.50	50.92	52.51	51.31	50.93	51.20	51.89
3	49.62	49.16	49.45	51.79		52.58	51.09	52.72	51.21	50.88	51.08	51.87
4	49.69	49.37	49.48	52.26		52.95	51.46	53.19	51.02	50.72	50.94	51.75
5	49.70	49.65	49.10	52.44		52.25	51.88	55.00	51.03	50.75	50.94	51.63
6	50.01	49.84	49.70	52.48		52.11	52.35	55.01	50.93	50.96	50.84	51.60
7	50.12	49.83	50.11	52.01		52.10	51.78	54.88	50.95	51.07	53.28	51.97
8	50.16	49.97	50.67	51.56		52.18	51.73	54.47	50.98	51.01	54.64	52.12
9	50.12	49.99	50.84	51.18		52.23	51.97	55.60	51.01	50.87	51.22	52.14
10	50.20	50.03	50.72	51.10		52.36	52.06	54.03	51.05	50.69	52.40	52.11
11	50.79	49.86	50.86	51.12		52.45	52.30	53.92	51.09	50.64	51.01	51.93
12	50.75	50.12	50.83	51.62		52.25	52.36	52.32	50.99	50.68	50.91	52.03
13	50.64	50.36	50.89	51.79		51.78	52.10	51.87	50.93	50.76	51.20	52.24
14	50.53	50.38	50.90	51.74		51.97	52.81	51.62	50.88	50.83	50.97	52.43
15	50.29	50.46	50.81	52.96		51.97	53.44	51.73	50.85	50.85	50.81	52.45
16	50.38	50.23	50.71	53.36		52.03	53.54	53.49	50.90	50.88	51.52	52.34
17	50.23	50.10	50.64	53.54		52.04	53.53	53.68	50.91	50.86	52.21	52.34
18	49.96	50.02	50.37	53.48		51.83	53.13	53.97	50.88	50.89	51.28	52.15
19	49.86	50.44	50.08	52.59		51.54	53.38	53.78	50.83	50.96	51.99	52.19
20	49.86	51.03	50.55	51.98		51.46	54.08	52.53	51.37	50.99	51.40	52.17
21	49.89	50.62	50.68	51.43		51.18	54.24	52.12	51.34	50.86	51.36	52.39
22	49.90	50.40	50.65	51.27		51.57	53.92	51.59	51.08	50.82	51.30	52.58
23	49.90	50.02	50.37	51.87		51.62	53.46	51.84	51.12	50.76	51.56	52.78
24	49.85	50.07	50.39	51.79		51.11	52.71	51.84	51.05	50.89	51.66	52.79
25	49.68	49.98	50.78	51.81		52.13	52.79	51.73	50.96	51.08	51.69	52.54
26	49.94	49.97	50.84	51.96		52.21	52.81	51.79	50.94	51.16	51.65	52.35
27	50.54	49.91	50.62	52.05		51.87	52.66	51.76	50.87	51.19	51.64	52.41
28	49.86	49.26	50.49	51.96		51.94	52.50	51.50	50.80	51.24	51.63	52.45
29	50.47	49.62	50.99	52.57		52.22	52.66	50.98	50.89	51.33	51.66	52.46
30	50.27	49.63	51.37	51.50		52.24	52.69	50.92	50.88	51.31	51.67	52.46
31	49.60	---	51.08	51.88		51.92	---	51.03	---	51.14	51.77	---
MAX	50.79	51.03	51.37	53.54		52.95	54.24	55.60	51.37	51.33	54.64	52.79

WTR YR 1983 MEAN 51.41 HIGH 49.10 LOW 55.60

HAMILTON COUNTY--Continued

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 (0.2 m), depth 167 ft (50.9 m), cased.
DATUM.--Altitude of land-surface datum is 570.65 ft (173.934 m). Measuring point: Floor of instrument shelter 4.05 ft (1.234 m) 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 (25.634 m) Oct. 14, 1960; minimum daily low, 23.10 ft (7.041 m) Apr. 28, 1939.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 47.30 ft (14.417 m) Mar. 11; minimum recorded daily low, 37.90 ft (11.552 m) May. 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.70	43.10	44.00	42.60	43.90	45.50	43.50	43.70	40.50	41.30	42.90	43.80
2	39.30	42.90	44.10	42.30	44.20	45.80	42.80	43.80	40.50	40.90	43.30	43.10
3	39.60	43.90	44.10	43.40	44.70	46.30	43.30	44.10	40.80	40.20	43.40	43.20
4	40.40	43.60	44.00	44.20	45.10	46.80	43.80	44.80	40.20	38.80	43.30	43.10
5	40.30	43.70	42.90	43.80	45.50	45.70	44.00	45.70	39.30	39.90	43.40	42.60
6	40.30	43.30	43.70	43.90	44.00	43.40	44.70	45.10	---	39.10	43.10	42.90
7	40.10	42.80	44.20	45.10	44.10	44.30	45.00	44.00	---	41.70	42.80	43.60
8	39.90	43.00	45.00	44.20	45.50	45.60	44.80	40.90	40.50	40.80	43.10	43.70
9	40.00	43.50	45.00	43.80	44.90	46.90	44.50	42.30	40.70	41.00	43.30	44.40
10	39.30	43.60	44.10	43.50	44.50	47.20	42.20	43.80	40.80	40.50	43.30	44.50
11	41.20	43.60	43.60	44.00	44.80	47.30	43.60	42.90	40.80	41.50	42.50	44.00
12	42.50	43.80	43.00	44.10	44.80	46.10	45.20	42.90	39.90	42.20	42.60	43.70
13	42.10	43.70	43.30	44.90	44.00	43.70	45.00	42.50	40.30	42.10	42.10	43.50
14	42.30	42.50	44.20	44.90	43.70	44.70	44.60	41.80	40.80	42.30	42.90	43.70
15	42.80	43.20	44.00	44.00	44.30	45.60	44.90	41.70	40.70	42.70	42.70	43.70
16	---	43.60	44.70	43.50	44.30	46.30	43.10	41.90	40.70	42.30	43.30	42.90
17	---	44.10	45.00	44.20	44.60	46.40	42.30	41.70	41.00	41.00	43.50	43.50
18	---	43.80	44.30	44.30	44.50	46.10	43.70	41.70	40.20	41.70	43.10	43.50
19	---	44.10	42.70	45.30	44.30	44.80	44.60	41.60	39.80	41.80	42.70	43.60
20	---	43.90	43.70	44.50	43.50	43.30	44.80	42.30	39.90	42.50	42.30	43.50
21	---	42.60	44.20	44.30	43.80	43.70	44.70	41.00	40.20	42.30	42.30	43.10
22	---	43.20	44.70	43.50	44.20	44.40	44.50	40.10	40.70	42.60	42.30	44.50
23	---	43.50	44.20	43.10	44.70	44.50	44.30	40.70	40.90	42.20	43.20	44.90
24	---	44.20	42.50	43.80	45.00	44.70	42.20	40.70	40.80	41.50	43.30	44.10
25	42.10	42.30	42.00	43.90	44.80	44.90	43.30	41.40	40.90	42.10	43.50	43.40
26	43.00	42.90	42.70	44.30	44.90	44.50	44.60	41.90	40.10	42.50	43.60	43.90
27	43.50	42.90	43.70	45.10	43.60	43.30	45.20	41.30	40.40	42.00	43.20	43.90
28	43.40	41.90	43.40	44.70	44.10	44.00	45.60	40.30	40.50	42.80	42.70	44.60
29	43.30	43.30	44.30	44.20	---	44.80	46.40	39.00	40.50	43.40	42.50	44.60
30	43.00	44.10	44.40	42.60	---	44.30	45.70	37.90	40.50	43.00	42.80	44.60
31	42.10	---	43.70	43.60	---	44.50	---	39.00	---	42.70	43.10	---
MAX	43.50	44.20	45.00	45.30	45.50	47.30	46.40	45.70	41.00	43.40	43.60	44.90

WTR YR 1983 MEAN 43.15 HIGH 37.90 LOW 47.30

HAMILTON COUNTY--Continued

391733084392400. Local number, H-2.
LOCATION.--Lat 39°17'33", long 84°39'24", Hydrologic Unit 05080002, East Miami River Road 1.5 mi (2.4 km) south of Ross.
Owner: Lee Wilhelm.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in (0.15 m), depth 89 ft (27.1 m), cased.
DATUM.--Altitude of land-surface datum is 534.21 ft (162.827 m), Measuring point: Floor of instrument shelter 8.97 ft (2.734 m) 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 (7.428 m) Sept. 24, 25, 1972; minimum daily low 1.60 ft (0.488 m) June 16, 1958. (Water level above land surface but could not be measured during January 1959 flood.)
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 18.77 ft (5.721 m) Nov. 21-22; minimum daily low, 6.43 ft (1.960 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.62	17.96	17.44	15.17	16.44	17.03	17.13	15.32	14.42	16.02	16.89	17.41
2	17.58	17.99	17.38	15.01	16.57	17.07	17.16	10.76	14.60	15.82	16.92	17.46
3	17.56	17.99	17.47	15.13	16.61	17.12	17.16	8.81	14.77	15.54	16.94	17.46
4	17.56	17.99	17.58	15.21	16.61	17.17	17.12	6.48	14.82	15.42	16.98	17.44
5	17.58	18.01	17.66	15.30	16.53	17.19	16.94	6.43	14.82	15.36	17.02	17.41
6	17.61	18.04	17.75	15.43	16.43	17.19	16.80	7.05	14.91	15.26	17.06	17.47
7	17.65	18.08	17.81	15.70	16.43	17.19	16.71	7.93	15.06	15.24	17.06	17.57
8	17.71	18.10	17.88	15.88	16.53	17.14	16.68	8.60	15.23	15.18	17.06	17.66
9	17.71	18.13	17.96	16.01	16.64	17.15	16.59	9.23	15.36	15.14	17.13	17.73
10	17.71	18.17	18.02	16.08	16.72	17.16	16.22	9.88	15.41	15.16	17.20	17.78
11	17.63	18.23	18.08	16.11	16.74	17.16	15.73	10.43	15.41	15.29	17.29	17.79
12	17.56	18.28	18.14	16.19	16.75	17.11	15.30	11.12	15.45	15.43	17.31	17.78
13	17.58	18.29	18.19	16.25	16.75	17.03	14.96	11.82	15.55	15.60	17.31	17.83
14	17.66	18.28	18.25	16.26	16.73	17.13	14.72	12.37	15.59	15.75	17.24	17.89
15	17.69	18.26	18.31	16.32	16.73	17.22	14.54	12.46	15.67	15.91	17.17	17.93
16	17.70	18.28	18.32	16.34	16.67	17.29	14.08	12.18	15.69	16.03	17.23	17.96
17	17.69	18.34	18.29	16.41	16.68	17.36	13.60	12.36	15.69	16.08	17.31	17.96
18	17.70	18.43	18.17	16.46	16.70	17.43	13.41	12.56	15.69	16.19	17.38	17.94
19	17.72	18.51	18.06	16.52	16.69	17.50	13.53	12.89	15.66	16.28	17.46	17.88
20	17.72	18.67	18.03	16.62	16.66	17.50	13.71	13.17	15.68	16.38	17.52	17.93
21	17.73	18.77	18.01	16.76	16.63	17.47	13.94	13.43	15.68	16.51	17.54	18.02
22	17.74	18.77	18.00	16.79	16.67	17.38	14.14	13.56	15.63	16.66	17.53	18.03
23	17.76	18.72	17.98	16.73	16.69	17.26	14.33	13.64	15.62	16.78	17.58	18.03
24	17.80	18.60	17.98	16.50	16.72	17.13	14.48	13.76	15.69	16.87	17.65	18.00
25	17.85	18.44	17.95	16.28	16.78	17.04	14.53	13.92	15.71	16.88	17.69	17.94
26	17.88	18.21	17.87	16.10	16.81	17.01	14.62	14.08	15.76	16.84	17.74	17.91
27	17.90	18.01	17.69	15.99	16.88	17.02	14.77	14.20	15.87	16.80	17.75	17.95
28	17.92	17.86	17.31	16.06	16.97	17.13	15.04	14.22	15.99	16.81	17.74	17.96
29	17.97	17.75	16.62	16.07	---	17.14	15.28	14.19	16.03	16.87	17.64	17.94
30	17.99	17.62	15.97	16.19	---	17.13	15.32	14.11	16.05	16.91	17.52	17.90
31	17.99	---	15.46	16.30	---	17.10	---	14.24	---	16.90	17.38	---
MAX	17.99	18.77	18.32	16.79	16.97	17.50	17.16	15.32	16.05	16.91	17.75	18.03

WTR YR 1983 MEAN 16.44 HIGH 6.43 LOW 18.77

HAMILTON COUNTY--Continued

391748084393800. Local number, H-19.
LOCATION.--Lat 39°17'48", long 84°39'38", Hydrologic Unit 05080002, on left bank of Great Miami River 1.3 mi (2.1 km) 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 (6.1 m), depth 144 ft (43.9 m) horizontal intakes at 95-100 ft (29.0-30.5 m).
PERIOD OF RECORD.--1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	BICARBONATE FET-FLD (MG/L AS HCO3)
OCT 29...	0930	720	8.2	10.0	16.0	13	290	76	25	310
FEB 28...	1630	705	8.0	11.0	15.0	13	320	82	27	310
MAY 27...	1000	705	8.0	14.0	13.5	46	330	85	28	300
SEP 06...	1630	750	7.9	30.0	17.0	32	310	81	27	300

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, TOTAL (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (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 29...	73	49	.3	430	450	.020	1.5	<1	20	20
FEB 28...	74	49	.4	463	470	.050	2.4	--	--	--
MAY 27...	67	40	.4	468	470	.020	3.6	--	--	--
SEP 06...	74	55	.2	446	450	.040	1.7	3	10	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (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 29...	6	5	140	1	<1	230	110	40	39
FEB 28...	--	--	110	--	--	240	--	--	1.0
MAY 27...	--	--	530	--	--	290	--	--	1.6
SEP 06...	23	13	140	4	3	250	120	23	1.8

HAMILTON COUNTY--Continued

391817084393300. Local number, H-4.
LOCATION.--Lat 39°18'17", long 84°39'33", Hydrologic Unit 05080002, 0.7 mi (1.1 km) 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 (0.15 m), depth 100 ft (30.3 m), cased.
DATUM.--Altitude of land-surface datum is 541.57 ft (165.071 m). (Levels by Miami Conservancy District.)
Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--December 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.16 ft (9.802 m) Nov. 20, 1971; minimum daily low, 11.60 ft (3.536 m) June 16, 1958.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 25.39 ft (7.739 m) Dec. 17-18; minimum daily low, 13.49 ft (4.112 m) May 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.90	24.47	24.65	21.84	22.14	22.63	23.05	20.17	17.75	20.55	22.00	23.48
2	23.92	24.62	24.75	21.71	21.87	22.84	22.79	17.84	17.85	20.55	22.12	23.51
3	23.70	24.77	24.82	21.78	21.66	22.91	22.60	15.82	17.92	20.25	22.22	23.54
4	23.69	24.85	24.91	22.04	21.43	22.99	22.46	13.91	17.97	19.92	22.31	23.41
5	23.86	24.89	24.93	22.28	21.21	23.10	22.48	13.49	18.08	20.06	22.39	23.37
6	23.96	24.95	24.99	22.28	21.17	23.11	22.62	13.89	18.29	20.21	22.42	23.25
7	24.04	24.96	25.08	22.09	21.18	22.98	22.66	14.44	18.30	20.41	22.48	23.39
8	24.11	24.98	25.10	22.01	21.13	22.99	22.65	14.90	18.40	20.55	22.44	23.48
9	24.14	25.05	25.12	22.05	21.20	22.99	22.36	15.17	18.70	20.68	22.51	23.57
10	24.03	25.08	25.26	22.37	21.34	22.97	21.88	15.64	19.08	20.80	22.57	23.66
11	23.74	25.15	25.28	22.63	21.55	23.04	21.48	16.00	19.26	20.88	22.60	23.72
12	23.52	25.25	25.09	22.74	21.55	23.11	21.19	16.04	19.20	20.98	22.65	23.74
13	23.38	25.28	24.94	22.88	21.58	23.13	21.11	16.17	19.14	21.05	22.73	23.77
14	23.42	25.12	25.15	22.99	21.87	23.15	21.05	16.52	19.49	21.13	22.72	23.81
15	23.69	24.87	25.31	23.05	22.13	23.19	20.90	16.57	19.72	21.24	22.73	23.83
16	23.80	25.06	25.37	22.99	22.26	23.24	20.46	16.23	19.91	21.32	22.82	23.90
17	23.73	25.19	25.39	22.86	22.34	23.27	19.75	16.21	20.07	21.42	22.88	24.00
18	23.60	25.29	25.39	23.05	22.43	23.31	19.36	16.33	20.13	21.46	22.93	24.06
19	23.90	25.34	25.17	23.17	22.54	23.33	19.20	16.48	20.11	21.46	23.00	24.07
20	24.12	25.13	25.12	23.23	22.61	23.19	19.19	16.64	20.02	21.47	23.04	24.08
21	24.25	24.67	25.20	23.26	22.59	23.17	19.25	16.82	19.92	21.47	23.04	24.08
22	24.34	24.69	25.22	23.29	22.38	23.17	19.33	16.90	20.03	21.49	23.05	24.09
23	24.38	24.92	25.21	23.18	22.55	23.12	19.40	16.89	20.09	21.51	23.13	24.12
24	24.24	25.15	25.10	22.74	22.61	23.15	19.52	16.94	20.20	21.61	23.18	24.15
25	24.28	25.31	24.85	22.62	22.70	23.19	19.76	17.05	20.30	21.71	23.24	24.02
26	24.41	25.21	24.55	22.62	22.75	23.21	20.13	17.09	20.23	21.78	23.30	24.06
27	24.55	24.77	24.31	22.62	22.60	22.98	20.15	17.12	20.18	21.85	23.35	24.09
28	24.62	24.31	24.02	22.64	22.42	22.71	20.08	17.55	20.36	21.92	23.44	24.21
29	24.71	24.29	23.38	22.70	---	22.93	20.09	17.57	20.47	21.98	23.45	24.29
30	24.77	24.49	22.60	22.64	---	23.09	20.20	17.55	20.52	22.05	23.44	24.37
31	24.73	---	22.09	22.38	---	23.16	---	17.64	---	22.02	23.46	---
MAX	24.77	25.34	25.39	23.29	22.75	23.33	23.05	20.17	20.52	22.05	23.46	24.37

WTR YR 1983 MEAN 22.16 HIGH 13.49 LOW 25.39

HARDIN COUNTY

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 (0.15 m), depth 40 ft (12.2 m), cased.
DATUM.--Altitude of land-surface datum is 975 ft (297 m), from topographic map. Measuring point: Floor of instrument shelter 1.5 ft (0.457 m) 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 (6.751 m) Dec. 14, 1964; minimum daily low, 5.85 ft (1.783 m) July 1, 1946.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 19.60 ft (5.974 m) July 13; minimum daily low, 11.80 ft (3.597 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.95	17.00	16.45	14.40	13.55	13.25	12.75	12.35	16.05	16.00	17.05	18.35
2	15.90	16.70	16.45	14.10	13.35	13.40	12.55	12.70	16.00	14.95	17.05	17.60
3	16.00	17.00	16.20	14.55	13.05	13.40	12.50	11.80	15.70	14.95	17.05	18.45
4	15.95	16.80	16.25	13.95	13.70	13.45	12.85	12.35	15.05	14.95	16.95	18.10
5	16.00	17.20	15.70	14.00	13.85	13.45	12.80	12.25	15.15	15.90	16.85	17.75
6	16.40	19.15	16.00	13.70	13.30	12.90	12.85	12.15	15.00	15.65	17.15	16.50
7	16.15	17.40	16.20	13.35	13.50	13.45	12.35	12.05	15.10	16.15	17.40	16.25
8	16.30	17.65	16.15	14.00	13.25	13.35	12.40	11.90	15.40	16.40	17.60	16.30
9	16.45	17.45	15.95	13.95	13.55	13.30	12.40	12.25	15.25	15.70	17.90	17.05
10	16.05	17.45	15.80	13.55	13.70	13.20	12.45	12.50	15.65	15.25	18.65	16.70
11	16.45	17.35	15.65	13.25	13.90	13.35	12.50	12.45	15.15	17.05	17.90	16.75
12	16.60	17.30	15.85	13.95	13.75	13.70	12.70	12.70	15.20	19.15	17.70	16.85
13	16.35	18.00	16.15	13.95	13.70	12.95	12.30	12.65	15.50	19.60	17.60	16.40
14	16.25	17.70	15.85	13.70	14.10	13.00	12.10	12.90	15.40	16.20	16.80	17.15
15	16.50	17.75	15.40	13.80	13.50	13.50	12.30	12.30	15.50	16.65	17.30	16.60
16	16.95	17.70	15.45	13.85	13.40	13.05	12.30	12.80	15.30	16.35	17.60	16.05
17	16.60	17.45	15.65	13.95	13.65	13.00	12.25	12.75	16.65	16.40	17.75	16.95
18	17.15	17.50	15.55	14.45	13.65	12.65	12.50	13.20	16.60	17.90	17.45	16.55
19	16.80	17.40	14.90	16.30	14.05	12.85	12.45	12.65	15.50	18.25	17.80	17.25
20	17.05	17.15	15.05	16.35	13.60	13.10	12.30	13.35	15.30	18.40	17.95	16.90
21	16.90	17.20	15.00	14.05	13.75	12.95	12.65	13.55	15.65	18.50	17.95	18.15
22	16.95	17.15	14.90	14.05	13.50	13.15	12.85	13.00	15.40	19.00	18.10	16.85
23	17.20	17.15	16.00	14.00	13.55	13.20	12.45	13.85	15.35	17.00	18.20	16.55
24	17.25	17.35	14.90	14.45	13.05	13.00	12.15	14.05	16.05	15.10	18.20	17.25
25	17.15	17.95	14.45	14.75	13.20	13.30	12.70	14.15	16.05	17.70	18.40	17.75
26	17.00	17.75	14.10	14.60	13.80	13.00	12.80	14.50	15.90	17.70	18.40	17.05
27	16.95	17.40	14.40	13.95	13.25	12.50	12.75	14.85	15.35	17.40	18.00	16.65
28	16.60	16.70	14.30	13.80	13.55	12.55	12.35	14.55	14.90	16.75	18.15	17.15
29	16.85	16.65	14.45	13.75	---	13.00	12.55	14.50	15.30	16.85	18.20	17.95
30	17.15	16.55	14.75	13.40	---	12.95	12.90	14.95	15.70	17.00	18.15	18.30
31	16.90	---	14.75	13.80	---	12.75	---	15.40	---	16.90	18.25	---
MAX	17.25	19.15	16.45	16.35	14.10	13.70	12.90	15.40	16.65	19.60	18.65	18.45

WTR YR 1983 MEAN 15.27 HIGH 11.80 LOW 19.60

GROUND-WATER RECORDS

HOCKING COUNTY

393200082235300. Local number, HK-1.
LOCATION.--Lat 39°32'00", long 82°23'53", Hydrologic Unit 05060002, at railroad yards southeast edge of Logan.
Owner: Chessie System.
AQUIFER.--Sand and gravel of Quaternary Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 88 ft (26.8 m), cased.
DATUM.--Altitude of land-surface datum is 710 ft (216 m), from topographic map. Measuring point: Top of gage platform 4.90 ft (1.494 m) above land-surface datum.
PERIOD OF RECORD.--August 1962 to September 1982 continuous, preiodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.35 ft (6.507 m) Dec. 21, 22, 1967; minimum daily low, 9.11 ft (2.777 m) Apr. 22, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 5, 1982	17.41	Apr. 12, 1983	14.17

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 (0.2 m), depth 90 ft (27-4 m), cased.
DATUM.--Altitude of land-surface datum is 1000 ft (305 m), from topographic map. Measuring point: Floor of instrument shelter 3.50 ft (1.067 m) 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 (6.090 m) Oct. 1, 1983; minimum daily low, 1.43 ft (0.436 m) Apr. 9, 1950.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 19.98 ft (6.090 m) Oct. 1; minimum daily low, 6.96 ft (2.121 m) May 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.98	12.73	12.19	8.69	13.24	10.42	13.25	9.51	11.12	11.49	12.37	12.89
2	15.92	11.99	14.88	8.39	10.34	11.10	9.90	10.01	11.09	10.16	11.66	13.15
3	12.17	11.37	16.55	10.08	13.43	12.31	10.17	9.90	9.08	8.78	11.22	13.52
4	15.36	12.14	16.64	8.31	13.57	14.81	9.39	9.84	8.25	8.05	11.38	13.31
5	15.58	12.37	10.89	8.48	13.40	14.18	11.09	9.68	8.10	12.38	11.49	12.82
6	17.41	10.81	11.78	8.90	8.80	14.15	12.94	8.61	8.90	10.98	10.58	12.60
7	17.50	10.24	15.32	11.16	13.37	11.90	12.84	8.66	10.99	10.90	9.36	12.31
8	16.02	13.08	16.45	8.34	13.53	11.62	11.04	6.99	12.06	10.72	11.70	13.05
9	14.56	11.14	11.71	7.96	12.71	10.22	9.61	9.95	11.26	9.21	11.54	14.90
10	13.96	12.31	11.85	10.57	10.60	11.29	8.49	9.90	10.59	10.20	11.69	12.68
11	14.18	13.54	9.56	8.52	10.74	11.13	11.14	11.42	10.65	12.12	11.45	13.83
12	16.20	12.58	10.09	8.67	9.00	9.60	12.11	11.30	9.39	13.97	11.90	14.37
13	16.63	10.97	10.61	11.85	8.04	7.98	11.32	11.10	11.03	14.13	12.66	14.56
14	16.73	10.52	10.78	13.58	10.32	10.06	10.09	9.25	11.46	14.32	11.82	13.61
15	13.25	11.17	11.84	13.64	10.52	10.09	11.01	9.43	12.49	13.43	14.28	15.95
16	11.46	11.61	11.54	9.05	9.84	9.05	9.46	9.11	11.51	11.71	14.07	14.46
17	11.13	12.15	14.00	12.78	9.55	9.54	8.11	11.71	11.85	11.09	12.15	12.79
18	13.29	11.84	11.01	10.74	9.54	9.34	10.93	11.62	10.37	13.74	12.69	12.04
19	13.70	12.22	11.48	12.49	9.23	7.62	10.22	12.13	9.56	12.97	14.29	12.75
20	13.91	12.24	11.66	11.87	8.87	7.80	11.22	10.90	12.01	11.23	11.74	12.70
21	14.83	11.58	9.31	10.66	9.62	11.26	10.96	9.72	11.75	12.88	11.68	12.26
22	14.02	11.65	9.77	10.40	8.48	10.44	11.33	9.29	14.61	13.47	12.71	14.21
23	11.89	12.71	10.14	9.40	8.58	9.82	8.96	10.59	10.84	14.30	12.75	12.93
24	11.69	12.72	8.50	11.48	9.96	9.50	8.16	12.44	10.85	13.46	12.62	11.73
25	13.82	10.30	8.82	10.52	10.25	9.21	10.57	12.04	10.14	15.22	13.72	12.03
26	14.65	11.70	8.89	11.03	9.37	11.09	11.45	9.64	9.31	14.50	13.84	11.87
27	13.58	9.19	9.08	11.83	8.60	8.06	10.00	8.15	12.30	13.75	12.50	12.17
28	12.48	8.76	9.11	10.26	10.77	11.58	10.60	8.09	11.41	13.99	10.89	13.53
29	11.44	11.11	9.05	11.08	---	12.10	9.96	6.96	11.23	15.53	13.51	14.35
30	11.97	11.35	8.92	9.51	---	12.14	8.52	7.06	10.60	15.64	11.99	14.98
31	11.92	---	8.53	12.46	---	13.78	---	8.48	---	13.34	11.39	---
MAX	19.98	13.54	16.64	13.64	13.57	14.81	13.25	12.44	14.61	15.64	14.29	15.95

WTR YR 1983 MEAN 11.50 HIGH 6.96 LOW 19.98

LICKING COUNTY

400159082282100. Local number, LI-2.
LOCATION.--Lat 40°01'59", long 82°28'21", Hydrologic Unit 05040006, Heath Refinery at Heath.
Owner: Heath Refinery.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well. diameter 6 in (0.15 m), depth 23 ft (7.010 m) cased.
DATUM.--Altitude of land-surface datum is 890 ft (271 m), from topographic map. Measuring point: Floor of instrument shelter 3.80 ft (1.158 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--November 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 18.55 ft (5.654 m); Dec. 17, 18, 1953; minimum daily low, 0.48 ft (0.146 m) above land surface June 23, 1956.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 4.81 ft (1.466 m) Nov. 20; minimum daily low, 0.24 ft (0.073 m) above land surface May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.45	4.54	1.66	.68	.92	1.42	2.35	-0.14	.84	.70	1.57	3.39
2	3.50	4.57	1.79	.72	.90	1.46	2.35	-0.16	.92	.91	1.68	3.45
3	3.55	4.60	1.89	.86	.26	1.51	1.48	-0.24	.92	1.07	1.75	3.50
4	3.60	4.60	1.98	.89	.42	1.51	1.56	-0.16	.84	.79	1.79	3.55
5	3.65	4.55	2.02	.91	.58	1.57	1.62	.01	.98	.77	1.87	3.60
6	3.69	4.60	1.43	.87	.62	1.60	1.64	.16	.99	.75	1.93	3.65
7	3.72	4.63	1.62	.92	.71	1.61	1.54	.32	1.09	.92	1.99	3.71
8	3.76	4.66	1.67	.98	.78	1.64	1.43	.37	1.18	1.05	2.06	3.77
9	3.79	4.69	1.80	1.03	.83	1.69	.34	.52	1.24	1.14	2.15	3.82
10	3.83	4.72	1.83	.99	.84	1.75	.15	.64	1.29	1.20	2.23	3.86
11	3.83	4.74	1.91	.68	.93	1.75	.28	.72	1.34	1.32	2.25	3.90
12	3.87	4.74	2.01	.88	1.00	1.74	.48	.78	1.38	1.38	2.33	3.94
13	3.89	4.55	2.11	.95	1.04	1.71	.54	.83	1.42	1.45	2.41	3.98
14	3.92	4.58	2.18	.97	1.01	1.75	.50	.83	1.44	1.50	2.47	4.03
15	3.95	4.64	2.20	1.07	.97	1.85	.22	.68	1.49	1.57	2.56	4.07
16	4.02	4.68	.92	1.10	.92	1.91	.38	.01	1.51	1.63	2.62	4.08
17	4.07	4.74	.93	1.20	.99	1.93	.51	.14	1.51	1.67	2.67	4.03
18	4.11	4.77	1.01	1.31	1.04	1.94	.60	.30	1.46	1.69	2.73	4.08
19	4.14	4.80	.81	1.38	1.14	1.93	.69	.33	1.48	1.07	2.80	4.12
20	4.17	4.81	.44	1.41	1.16	1.90	.76	.31	.02	1.25	2.87	4.16
21	4.22	4.63	.64	1.41	1.16	1.91	.85	.39	.20	1.35	2.93	4.16
22	4.25	3.33	.73	1.39	1.16	2.02	.90	.38	.47	1.42	2.97	4.11
23	4.29	2.71	.72	1.09	1.21	2.09	.91	.03	.73	1.11	3.05	4.16
24	4.32	2.74	.66	1.02	1.26	2.13	.92	.21	.90	.47	3.13	4.21
25	4.35	2.89	.68	1.11	1.37	2.20	1.01	.28	1.04	.77	3.18	4.24
26	4.39	2.96	.52	1.17	1.43	2.24	1.07	.46	1.14	1.03	3.23	4.27
27	4.42	2.87	.52	1.23	1.43	2.24	1.12	.57	1.20	1.21	3.28	4.31
28	4.44	2.85	.19	1.28	1.40	2.22	1.16	.57	.99	1.37	3.31	4.34
29	4.45	1.32	.38	1.29	---	2.28	1.16	.55	.88	1.48	3.24	4.41
30	4.48	1.50	.51	.09	---	2.31	1.12	.66	1.03	1.56	3.28	4.44
31	4.51	---	.60	.90	---	2.31	---	.74	---	1.56	3.32	---
MAX	3.45	1.32	.19	.68	.26	1.42	.15	-0.24	.02	.47	1.57	3.39

WTR YR 1983 MEAN 1.95 HIGH -0.24 LOW 4.81

MADISON COUNTY

395301083272200. Local number, M-2.
LOCATION.--Lat 39°53'01", long 83°27'22", Hydrologic Unit 05060002, U.S. 42 and Westmore Dr., London.
Owner: State of Ohio
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in (0.3 m), depth 350 ft (106.7 m), cased.
DATUM.--Altitude of land-surface datum is 1035 ft (315 m), from topographic map. Measuring point: Floor of instrument shelter 1.00 ft (0.305 m) 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, 35.18 ft (10.723 m) July 16, 1977; minimum daily low, 0.55 ft (1.68 m) above land surface Apr. 13, 1980.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 34.12 ft (10.400 m) July 16; minimum daily low, 8.21 ft (2.502 m) Dec. 16.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.15	14.26	13.90	13.20			---	14.19	16.30	27.61	26.41	27.50
2	14.88	14.69	13.36	12.56			---	17.61	17.87	25.50	26.21	25.04
3	14.23	15.27	13.22	13.17			---	17.83	17.56	21.49	25.78	25.01
4	15.83	15.87	12.56	13.79			---	16.16	17.32	20.10	27.84	24.95
5	16.24	14.00	10.54	13.27			---	18.48	14.05	21.21	27.25	24.95
6	17.58	15.34	12.57	12.25			---	17.46	15.27	20.46	25.32	25.57
7	17.32	12.98	12.09	11.81			---	17.83	20.52	20.43	25.28	28.10
8	16.73	15.06	11.87	11.12			---	16.69	24.34	20.69	26.20	27.75
9	15.66	15.40	11.89	11.58			---	19.06	26.57	23.02	30.62	27.43
10	14.24	15.78	13.44	10.35			---	17.18	21.47	23.33	30.26	28.71
11	15.74	15.26	12.58	9.43			15.59	17.84	22.01	28.68	28.70	25.91
12	14.59	16.23	11.03	11.43			15.19	18.57	20.98	29.57	24.14	28.07
13	14.70	15.92	12.11	9.64			16.78	19.47	22.25	30.91	22.65	28.04
14	15.44	14.15	10.97	9.45			15.36	16.80	24.54	31.70	22.75	27.74
15	15.22	17.25	12.15	10.16			17.70	15.91	25.08	33.78	24.85	27.54
16	15.07	16.79	11.41	9.92			17.11	15.33	24.51	34.12	26.42	27.60
17	13.87	15.93	11.64	12.64			15.98	18.17	22.89	32.38	27.45	26.41
18	14.71	14.52	11.40	12.73			17.39	19.40	19.69	30.64	28.16	23.16
19	15.02	14.35	11.78	---			16.74	18.46	18.59	28.77	30.01	26.55
20	16.54	13.87	18.12	---			17.54	17.14	19.34	27.69	30.82	26.91
21	16.02	12.97	16.50	---			18.31	16.97	20.97	27.81	32.28	25.66
22	16.93	15.64	14.88	---			16.55	18.80	21.34	30.43	33.77	26.30
23	15.78	14.77	13.77	---			16.11	22.98	25.82	28.15	34.08	25.14
24	14.47	16.10	11.68	---			13.85	21.26	25.76	27.95	33.24	24.14
25	16.04	14.93	9.82	---			16.36	20.27	25.01	24.11	32.82	22.91
26	15.43	13.89	8.21	---			16.69	18.76	22.13	27.40	33.65	24.11
27	16.17	14.13	12.12	---			17.23	18.87	23.62	27.77	33.45	25.54
28	15.44	12.10	16.41	---			16.96	19.22	21.44	29.26	30.66	26.06
29	15.39	14.28	16.30	---			17.94	16.25	22.30	28.65	27.22	26.59
30	14.89	14.71	15.36	---			16.04	15.14	21.54	29.18	28.67	27.17
31	13.47	---	15.67	---			---	17.76	---	28.63	28.84	---
MAX	17.58	17.25	18.12	13.79			18.31	22.98	26.57	34.12	34.08	28.71

WTR YR 1983 MEAN 19.70 HIGH 8.21 LOW 34.12

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

MADISON COUNTY--Continued.

395357083304400. Local number, M-4
LOCATION.--Lat 39°53'57", long 83°30'44" Hydrologic Unit 05060002, 3.5 mi (5.6 km) northwest of London, Ohio.
OWNER.--State of Ohio.
AQUIFER.--Sand and gravel of Pleistoncene Age.
WELL CHARACTERISTICS.--Drilled unused water table well, diameter 10 in (0.25 m) depth 49 ft (14.9 m), cased.
DATUM.--Altitud of land surface datum is 1,112 ft (338.9 m), from topographic map. Measuring point: Floor of instrument shelter 4.00 ft (1.219 m) above land surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--June 1983 to September 1983.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.55 ft (6.264 m) June 6, 1983; minimum daily low 0.65 ft (0.198 m) Aug. 24, 1983.
EXTREMES FOR PERIOD JUNE 1983 TO SEPTEMBER 1983.--Maximum daily low, 25.55 ft (6.264 m) June 6; minimum daily low, 0.65 ft (0.198 m) Aug. 24.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	7.45	15.90	20.50
2									---	7.55	11.25	14.05
3									.85	7.90	12.20	14.10
4									.85	8.20	12.20	14.15
5									.85	7.85	13.25	13.85
6									.65	5.45	9.70	14.00
7									.80	8.15	15.05	14.05
8									1.25	8.40	17.15	14.10
9									1.65	8.55	12.80	14.00
10									2.60	10.65	13.35	13.60
11									4.45	11.00	12.75	13.95
12									7.10	11.35	14.70	18.85
13									7.50	11.65	14.15	13.90
14									7.65	11.45	16.90	13.85
15									4.60	11.50	16.90	19.30
16									4.20	11.85	17.65	19.55
17									4.35	11.90	14.10	19.75
18									4.45	12.05	13.65	19.80
19									4.45	12.10	14.15	20.00
20									4.30	12.05	14.30	14.50
21									4.45	12.00	14.45	14.45
22									3.50	9.60	14.60	19.15
23									---	11.35	14.70	20.10
24									---	12.20	14.70	20.55
25									---	12.35	20.35	---
26									---	11.55	20.00	---
27									7.60	11.65	14.10	---
28									7.65	11.25	14.00	---
29									7.40	15.50	13.35	---
30									7.40	11.30	13.75	---
31									---	11.20	19.50	---
MAX									7.65	15.50	20.35	20.55

WTR YR 1983 MEAN 11.61 HIGH .65 LOW 20.55

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

MADISON COUNTY--Continued

395740083255700. Local number, M-3.
LOCATION.--Lat 39°57'40", long 83°25'57", Hydrologic Unit 05060002, 5.2 mi (8.4 km) north of London.
Owner: State of Ohio.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in (0.3 m), depth 290 ft (88.4 m) cased to 145 ft (44.2 m).
DATUM.--Altitude of land-surface datum is 1,020 ft (311 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--November 1974 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.03 ft (3.057 m) Oct. 6, 1982; minimum daily low, 3.93 ft (1.198 m) Feb. 25, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 6, 1982	10.03	Apr. 26, 1983	5.42

MAHONING COUNTY

410042080453800. Local number, MA-1.
LOCATION.--Lat 41°00'42", long 80°45'38", Hydrologic Unit, 05030103, in county fairgrounds at south edge of Canfield.
Owner: Canfield Water Department.
AQUIFER.--Sandstone of Pennsylvanian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.2), depth 170 ft (51.8 m) cased to 99.5 ft (30.3 m).
DATUM.--Altitude of land-surface datum is 1,160 ft (354 m), from topographic map. Measuring point: Floor of instrument shelter at land-surface datum.
REMARKS.--Influenced by seasonal water demand at county fairgrounds.
PERIOD OF RECORD.--May 1946 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 110.75 ft (33.757 m) Sept. 18, 1946; minimum daily low, 30.35 ft (9.251 m) Apr. 23, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 7, 1982	38.18	Apr. 1, 1983	34.75

GROUND-WATER RECORDS

MARION COUNTY

403413083170500. Local number, MN-4.
LOCATION.--Lat 40°34'13", long 83°17'05", Hydrologic Unit 05060001, 1.9 mi (3.1 km) southeast of New Bloomington.
Owner: State of Ohio.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in (0.3 m), depth drilled 290 ft (88.4 m), present depth 286 ft (87.2 m), cased to 33 ft (10.1 m).
DATUM.--Altitude of land-surface datum is 915.96 ft (279.185 m). Measuring point: Floor of shelter 3.00 ft (0.914 m) 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 (9.927 m) Aug. 14, 1983. minimum daily low, 0.61 ft. (0.186 m) Mar. 18, 1974.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 32.57 ft (9.927 m) Aug. 14; minimum daily low, 4.32ft (1.317 m) May 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.07	8.81	6.94	6.87	6.34	6.05	5.42	5.45	17.91	28.02	30.57
2	---	9.92	8.80	6.87	6.62	6.34	5.97	5.12	5.51	21.07	28.23	30.83
3	---	9.87	8.71	6.88	6.56	6.38	6.01	4.75	5.48	22.39	28.32	31.09
4	---	9.88	8.62	6.92	6.72	6.35	6.13	4.43	5.49	23.18	28.48	31.28
5	---	9.88	8.51	6.82	6.72	6.37	6.09	4.43	5.54	23.77	28.66	31.43
6	31.51	9.93	8.63	6.75	6.59	6.32	6.02	4.43	5.56	24.21	28.80	31.70
7	31.57	9.88	8.73	6.84	6.54	6.29	5.98	4.32	5.60	24.52	28.93	31.95
8	31.64	9.81	8.72	6.89	6.54	6.30	5.97	4.48	5.71	24.70	29.04	32.08
9	31.71	9.86	8.72	6.87	6.51	6.32	5.88	4.51	5.77	24.87	29.27	32.16
10	31.79	9.81	8.55	6.73	6.50	6.34	5.77	4.56	5.84	25.05	29.39	32.21
11	31.97	9.67	8.45	6.73	6.56	6.37	5.61	4.59	5.90	25.20	29.53	32.21
12	32.07	9.62	8.47	6.87	6.64	6.36	5.50	4.61	5.92	25.41	29.68	32.34
13	32.13	9.76	8.48	6.89	6.64	6.34	5.53	4.65	5.96	25.63	24.12	32.44
14	32.18	9.75	8.46	6.88	6.48	6.31	5.38	4.65	5.96	25.80	27.05	32.57
15	32.02	9.73	8.46	6.89	6.43	6.39	5.30	4.75	5.98	25.89	15.80	21.28
16	17.42	9.69	8.41	6.89	6.43	6.86	5.18	4.85	6.04	26.02	21.90	16.47
17	14.98	9.60	8.41	6.92	6.50	7.06	5.11	4.97	6.07	26.10	26.84	14.80
18	13.75	9.60	8.21	7.04	6.51	6.34	5.06	5.00	6.09	23.59	28.28	13.98
19	13.01	9.59	7.97	7.08	6.48	6.25	5.08	4.94	6.08	25.10	28.85	13.43
20	12.45	9.52	7.92	7.09	6.52	6.27	5.10	5.09	6.01	25.75	20.38	13.01
21	12.19	9.46	7.93	6.99	6.50	6.17	5.17	5.08	5.95	26.12	26.16	12.59
22	11.96	9.43	7.92	6.87	6.42	6.30	5.20	5.03	5.87	26.28	28.42	12.45
23	11.71	9.30	7.76	6.81	6.32	6.30	5.18	5.13	5.83	26.43	29.34	12.26
24	11.50	9.42	7.72	6.88	6.35	6.26	5.23	5.20	5.79	26.65	29.75	25.22
25	11.25	9.41	7.66	6.94	6.51	6.29	5.31	5.17	5.78	26.84	20.07	28.34
26	11.06	9.28	7.72	6.94	6.56	6.28	5.40	5.24	5.81	26.97	14.77	29.55
27	10.93	9.26	7.65	6.93	6.56	6.08	5.42	5.32	5.84	27.13	22.59	30.28
28	10.73	9.12	7.30	6.92	6.45	6.19	5.50	5.31	5.81	27.27	27.54	30.80
29	10.50	8.85	7.20	6.85	---	6.28	5.54	5.22	5.87	27.46	28.96	31.13
30	10.35	8.85	7.11	6.80	---	6.26	5.47	5.25	5.76	27.64	29.65	31.37
31	10.22	---	7.04	6.86	---	6.12	---	5.31	---	27.78	30.17	---
MAX	32.18	10.07	8.81	7.09	6.87	7.06	6.13	5.42	6.09	27.78	30.17	32.57

WTR YR 1983 MEAN 12.58 HIGH 4.32 LOW 32.57

MARION COUNTY--Continued

403443083230400. Local number, MN-1.
LOCATION.--Lat 40°34'43, long 83°23'04", Hydrologic Unit 05060001, SR 37 at Baptist Church in LaRue.
Owner: Village of LaRue.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (0.1 m), depth 100 ft (30.5 m), cased.
DATUM.--Altitude of land-surface datum is 930 ft (283 m), from topographic map. Measuring point: Floor of instrument shelter 3.30 ft (1.006 m) 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, 14.55 ft (4.435 m) Aug. 10, 1950; minimum daily low, 5.67 ft (1.728 m) Jan. 23, 1959.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 14.26 ft (4.346 m) Sep. 16; minimum daily low, 7.44 ft (2.268 m) May 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.78	13.14	12.00	9.77	10.80	10.83	10.68	10.07	10.00	10.29	12.87	13.53
2	13.81	13.10	12.03	9.88	10.53	10.99	10.64	8.67	10.27	10.29	12.98	13.85
3	13.84	12.96	11.98	10.04	10.27	10.89	10.41	7.66	10.18	10.32	12.88	13.97
4	13.90	12.86	11.97	10.26	10.20	10.78	10.31	7.44	10.28	10.59	12.81	13.96
5	13.92	12.89	11.81	10.19	10.16	10.75	10.35	7.75	10.32	10.83	12.87	13.97
6	13.88	13.11	12.07	10.84	10.09	11.53	10.34	8.09	10.35	11.09	13.06	13.99
7	13.83	13.14	12.18	10.52	10.37	11.56	10.47	8.22	10.36	11.23	13.01	13.81
8	13.67	13.04	---	10.40	10.23	10.95	10.49	8.64	10.50	11.28	13.09	13.83
9	14.14	13.01	---	10.44	10.37	10.89	10.18	8.58	11.09	11.23	13.15	13.89
10	14.17	13.12	---	10.46	10.38	10.67	9.66	8.67	11.47	11.37	13.04	13.98
11	14.09	12.97	---	10.48	10.53	10.71	9.50	8.54	11.13	12.04	13.01	14.05
12	14.06	12.93	---	10.50	10.54	11.05	9.64	9.30	11.07	11.86	13.09	14.11
13	14.00	13.00	---	10.56	10.34	11.26	9.48	9.37	11.03	11.85	13.28	14.11
14	14.06	12.88	---	10.43	10.91	11.29	9.39	9.32	10.99	12.08	13.20	14.21
15	13.99	12.86	---	10.46	10.96	11.15	8.69	9.36	10.82	12.19	13.22	14.18
16	14.04	13.04	---	10.45	11.18	10.87	8.58	9.36	10.68	12.27	13.28	14.26
17	14.00	12.94	---	10.80	11.06	10.89	8.91	9.53	11.12	12.20	13.12	14.25
18	13.98	13.32	---	10.81	11.49	10.75	8.92	9.51	11.20	12.08	13.27	14.08
19	13.89	13.32	---	10.79	11.36	10.85	9.13	9.56	11.17	12.06	13.29	14.07
20	13.75	12.88	---	10.97	10.89	10.82	9.10	9.58	11.06	12.11	13.36	14.01
21	13.67	12.75	---	10.94	10.84	11.09	9.56	9.57	10.55	12.34	13.16	13.97
22	13.55	12.80	---	11.17	10.60	10.61	9.84	9.79	10.57	12.42	13.16	13.81
23	13.54	12.70	---	10.72	10.78	10.60	9.67	9.74	10.49	12.26	14.12	13.82
24	13.41	12.66	---	10.75	10.79	10.47	10.02	9.76	10.79	12.45	13.73	13.74
25	13.35	12.48	---	10.75	10.91	10.45	9.83	9.78	10.88	12.42	13.78	13.87
26	13.31	12.32	---	10.76	10.95	10.42	9.83	9.86	10.88	12.57	13.56	13.75
27	13.17	12.28	10.53	10.81	11.07	10.53	10.08	9.94	10.89	12.58	13.54	13.68
28	13.04	12.18	10.20	10.68	11.02	10.75	10.71	10.00	10.75	12.55	13.42	13.89
29	13.01	12.30	9.38	10.63	---	10.81	10.43	9.95	10.46	12.64	13.49	13.93
30	12.96	12.31	9.55	10.66	---	10.51	10.32	9.84	10.35	12.98	13.45	13.98
31	13.30	---	9.70	10.83	---	10.54	---	10.08	---	12.94	13.52	---
MAX	14.17	13.32	12.18	11.17	11.49	11.56	10.71	10.08	11.47	12.98	14.12	14.26

WTR YR 1983 MEAN 11.58 HIGH 7.44 LOW 14.26

MARION COUNTY--Continued

403601083110400. Local number, MN-2.
LOCATION.--Lat 40°36'01, long 83°11'04", Hydrologic Unit 05060001 water treatment plant 2 mi (3.2 km) west of Marion
Owner: Marion Water Department.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.3 m), depth 67 ft (20.4 m), cased.
DATUM.--Altitude of land-surface datum is 910 ft (277 m), from topographic map. Measuring point: Floor of instrument shelter 2.00 ft (0.610 m) 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 (15.088 m) Feb. 11, 1956; minimum daily low, 7.35 ft (2.240 m) Apr. 2, 1974.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 16.32 ft (4.974 m) Sept. 30; minimum daily low, 10.10 ft (3.078 m) May 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		15.75	15.56	14.76	12.52	11.43	11.09	10.84	10.26	10.82	12.05	15.76
2		---	15.56	14.64	12.37	11.37	11.02	10.72	10.29	11.08	12.15	15.89
3		---	15.50	14.54	12.32	11.36	11.04	10.54	10.26	11.22	12.18	15.92
4		---	15.39	14.49	12.62	11.31	11.13	10.37	10.21	11.37	12.20	15.92
5		---	15.32	14.38	12.66	11.30	11.13	10.60	10.23	11.50	12.24	15.90
6		---	15.26	14.27	12.51	11.24	11.06	10.67	10.24	11.56	12.25	15.89
7		---	15.28	14.13	12.45	11.19	11.01	10.65	10.26	11.58	12.27	16.01
8		---	15.25	14.11	12.47	11.17	11.00	10.85	10.38	11.58	12.29	16.05
9		---	15.19	14.02	12.39	11.18	10.92	10.92	10.41	11.40	12.36	16.04
10		---	15.11	13.93	12.33	11.19	10.92	10.98	10.45	11.25	12.42	16.06
11		---	15.00	13.79	12.27	11.22	11.01	10.92	10.48	11.16	12.50	16.17
12		---	14.96	13.75	12.30	11.22	11.09	10.89	10.48	11.08	12.56	16.23
13		---	14.92	13.71	12.25	11.18	11.12	10.78	10.47	11.06	12.62	16.26
14		---	14.83	13.61	12.15	11.18	11.05	10.66	10.43	11.02	12.64	16.28
15		---	14.77	13.50	12.08	11.23	11.16	10.60	10.42	11.02	12.71	16.28
16		---	14.66	13.48	12.00	11.22	11.19	10.57	10.67	11.10	12.74	16.26
17		---	14.79	13.37	11.95	11.14	11.25	10.58	10.71	11.17	12.82	16.25
18		---	14.78	13.37	11.93	11.06	11.32	10.57	10.72	11.20	12.97	16.24
19		---	14.62	13.37	11.85	11.06	11.33	10.42	10.77	11.23	13.13	16.25
20		---	14.69	13.33	11.84	11.11	11.34	10.44	10.77	11.24	13.26	16.23
21		---	14.74	13.24	11.80	11.19	11.33	10.40	10.77	11.31	13.34	16.21
22		---	14.74	13.12	11.71	11.28	11.32	10.24	10.75	11.28	13.47	16.23
23		---	14.65	13.01	11.60	11.28	11.19	10.32	10.73	11.23	13.67	16.23
24		---	14.68	12.94	11.55	11.29	11.11	10.33	10.70	11.28	13.82	16.23
25		---	14.76	12.89	11.62	11.32	11.11	10.25	10.72	11.33	13.99	16.17
26		---	14.81	12.87	11.63	11.25	11.10	10.28	10.71	11.36	14.30	16.18
27		---	14.79	12.83	11.62	11.10	11.08	10.28	10.68	11.38	14.58	16.13
28		---	14.63	12.77	11.50	11.23	11.07	10.25	10.70	11.38	14.87	16.12
29		15.66	14.82	12.67	---	11.30	11.06	10.18	10.73	11.50	15.15	16.23
30		15.61	14.89	12.56	---	11.30	10.99	10.10	10.72	11.69	15.42	16.32
31		---	14.89	12.56	---	11.16	---	10.13	---	11.87	15.58	---
MAX		15.75	15.56	14.76	12.66	11.43	11.34	10.98	10.77	11.87	15.58	16.32

WTR YR 1983 MEAN 12.49 HIGH 10.10 LOW 16.32

MEDINA COUNTY

410120081431800. Local number, MD-3.
LOCATION.--Lat 41°01'20", long 81°43'18", Hydrologic Unit 05040001, Auble Street at water treatment plant in Wadsworth.
Owner: Wadsworth Water Department.
AQUIFER.--Sandstone of Mississippian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diamter 12 in (0.3 m), depth 275 ft (83.8 m), cased.
DATUM.--Altitude of land-surface datum is 1180 ft (360 m), from topographic map. Measuring point: Floor of instrument shelter 1.00 ft (0.305 m) 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 (56.918 m) Jan. 21, 1975; minimum daily low, 140.60 ft (42.855 m) April 16, 1983
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 170.20 ft (51.877 m) Aug. 25; minimum daily low, 140.60 ft (42.855 m) April 16.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148.00		166.00	166.40	160.60	163.60	160.50	144.50	144.20	167.70	168.10	166.20
2	147.80		166.50	165.50	162.70	163.60	---	143.80	144.50	167.90	168.30	166.30
3	147.60		166.50	166.40	163.40	162.90	147.30	144.10	---	167.60	167.00	168.30
4	147.70		163.80	166.60	163.80	162.80	147.00	144.30	---	167.60	168.60	168.30
5	147.70		166.20	166.70	164.80	162.70	147.10	144.80	---	164.50	168.60	166.40
6	147.70		166.60	165.10	163.20	163.20	146.90	145.00	---	167.90	167.10	167.80
7	147.50		166.70	165.70	164.80	162.90	146.90	143.70	---	166.50	166.90	168.60
8	147.40		166.90	165.50	164.90	163.50	146.90	143.80	---	168.70	168.00	169.10
9	147.30		167.10	165.50	164.50	162.40	146.80	144.50	---	166.50	168.80	167.60
10	147.20		166.10	165.10	164.60	163.30	145.30	144.50	---	166.90	167.50	165.90
11	147.30		166.10	165.20	164.80	163.30	145.30	144.50	---	165.20	167.10	166.30
12	147.40		165.90	165.60	164.40	162.40	145.10	144.70	---	167.20	167.00	166.10
13	---		166.10	---	163.70	162.70	145.30	144.80	---	168.00	167.10	166.40
14	---		166.50	---	163.60	163.30	144.30	144.80	---	168.20	167.00	166.60
15	---		166.50	---	163.60	162.30	145.10	144.70	---	168.70	167.50	166.60
16	---		165.90	---	163.30	163.40	140.50	144.50	---	169.00	168.50	166.30
17	---		166.40	---	163.50	162.50	143.70	144.60	---	169.10	168.60	165.90
18	---		166.40	---	163.10	163.20	144.30	144.60	---	167.80	169.00	166.00
19	---		165.90	---	164.00	162.60	143.80	144.60	---	168.90	169.10	167.00
20	---		165.60	---	164.10	161.60	144.50	143.90	166.00	169.30	169.40	166.00
21	---		166.50	---	163.50	162.70	144.00	144.30	166.60	169.70	169.60	166.20
22	---		166.60	---	163.70	163.70	144.60	144.30	166.70	169.70	169.60	166.20
23	---		166.70	---	162.70	---	143.80	143.90	167.60	167.90	169.90	167.30
24	---		165.90	---	162.90	---	144.40	144.40	168.10	167.00	170.10	165.50
25	---		166.50	---	163.50	---	144.10	144.50	168.60	168.60	170.20	165.70
26	---		165.20	---	162.60	164.30	144.70	144.20	168.90	---	170.10	167.10
27	---		165.90	---	163.60	149.90	145.00	144.60	169.00	---	170.10	167.80
28	147.00		166.40	---	163.70	162.60	145.40	144.70	168.70	---	170.10	168.00
29	146.80		166.80	---	---	163.30	145.50	144.60	166.40	169.60	168.70	168.30
30	146.90		165.50	---	---	163.80	144.30	142.40	168.10	169.60	169.50	168.60
31	---		166.10	---	---	149.70	---	143.50	---	168.70	169.60	---
MAX	148.00		167.10	166.70	164.90	164.30	160.50	145.00	169.00	169.70	170.20	169.10

WTR YR 1983 MEAN 160.29 HIGH 140.60 LOW 170.20

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

MERCER COUNTY

402833084375200. Local number, MR-2.
LOCATION.--Lat 40°28'33", long 84°37'52", Hydrologic Unit 05120101, at AVCO Mfg. Co. building in Coldwater.
Owner: AVCO Mfg. Company.
AQUIFER.--Limestone of Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 253 ft (77.1 m), cased.
DATUM.--Altitude of land-surface datum is 915 ft (279 m), from topographic map. Measuring point: Top of platform 1.2 ft (0.366 m) 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, 74.75 ft (22.784 m) May 15, 1980; minimum daily low, 60.13 ft (18.328 m) Feb. 14, 1967.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 72.38 ft (22.061 m) Aug. 30; minimum daily low, 66.96 ft (20.409 m) June 25.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.49	70.63	70.33	69.89	71.97	71.17	68.67	68.65	69.66	67.42	70.97	70.99
2	71.53	70.76	70.40	69.57	70.76	71.48	68.16	68.46	69.55	67.27	71.00	71.09
3	70.88	70.91	70.27	69.82	71.57	71.66	67.83	68.52	69.25	---	71.03	70.56
4	71.24	70.96	70.08	69.94	71.74	70.37	69.90	70.83	68.90	---	71.36	69.99
5	71.45	70.92	70.07	69.89	70.47	69.54	67.84	71.23	68.86	---	71.33	69.67
6	71.37	71.05	70.06	69.86	69.23	68.38	67.94	71.28	69.00	---	71.36	69.92
7	71.38	70.68	70.14	69.96	71.43	68.46	68.03	71.02	68.97	---	70.69	72.09
8	71.30	70.88	70.15	70.12	69.69	69.56	68.15	70.66	69.18	---	71.10	70.45
9	71.18	70.92	70.11	70.10	70.87	70.25	67.96	70.80	69.19	---	71.33	72.01
10	70.91	70.85	69.91	69.90	71.36	70.29	67.83	70.92	69.30	---	71.21	69.52
11	70.98	70.76	69.88	70.04	71.32	69.26	69.23	70.52	69.14	---	71.50	68.39
12	71.09	70.67	69.77	70.35	69.46	68.88	69.64	70.67	68.95	---	70.10	69.78
13	70.99	71.06	69.66	70.23	69.72	67.36	67.92	70.70	68.12	---	71.80	69.77
14	71.05	70.45	69.84	70.19	70.88	69.33	67.78	70.31	67.94	---	71.66	70.14
15	71.15	70.74	69.55	70.43	71.42	70.22	69.55	70.44	68.73	---	69.92	69.60
16	70.90	70.74	70.15	70.43	71.49	70.11	68.10	70.70	67.88	---	71.78	69.59
17	71.22	70.62	70.22	70.47	70.49	70.12	67.89	70.95	67.89	---	71.87	69.46
18	70.92	70.65	69.36	70.73	71.46	68.76	68.54	70.87	67.80	---	70.85	69.31
19	70.51	70.55	69.74	70.83	71.03	69.18	68.05	70.61	67.76	---	69.91	69.76
20	70.87	70.24	69.96	70.80	71.64	69.17	68.51	70.71	67.58	---	71.91	69.99
21	70.93	70.60	70.15	70.59	71.12	70.18	69.91	70.77	67.04	---	70.42	70.29
22	70.98	70.53	70.15	70.39	71.04	70.70	70.09	70.36	67.17	---	71.92	70.51
23	70.94	70.43	70.05	71.28	70.92	69.41	70.17	70.46	67.27	---	72.14	70.75
24	70.96	70.92	70.09	71.52	70.23	69.41	70.56	70.58	67.04	---	72.28	69.05
25	70.76	70.92	69.87	71.85	70.01	69.35	68.37	70.06	66.96	69.30	72.27	68.60
26	70.97	70.54	70.05	71.91	71.56	69.86	68.53	70.34	67.37	69.38	72.21	68.37
27	70.97	70.67	69.83	71.81	71.36	67.16	68.57	69.94	67.75	70.75	72.37	70.01
28	70.93	70.08	69.86	71.89	70.87	69.92	68.79	69.96	68.01	70.74	71.97	70.01
29	70.70	69.95	70.06	71.60	---	69.92	68.84	69.15	67.57	70.95	72.25	70.00
30	70.87	70.29	70.08	71.74	---	69.42	68.69	67.55	67.25	71.00	72.38	70.10
31	70.51	---	69.99	71.94	---	68.53	---	69.36	---	70.99	71.32	---
MAX	71.53	71.06	70.40	71.94	71.97	71.66	70.56	71.28	69.66	71.00	72.38	72.09

WTR YR 1983 MEAN 70.12 HIGH 66.96 LOW 72.38

GROUND-WATER RECORDS

MIAMI COUNTY

395848084085500. Local number, MI-3.
LOCATION.--Lat 39°58'48", long 84°08'55", Hydrologic Unit 05080001, 2.0 mi (3.2 km) 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 (0.13 m), depth 48 ft (14.6 m), cased.
DATUM.--Altitude of land-surface datum is 804.78 ft (245.297 m). (Levels by Miami Conservancy District.)
Measuring point: Floor of shelter 3.50 ft (1.067 m) above land-surface datum.
PERIOD OF RECORD.--October 1966 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD---Maximum daily low, 15.61 ft (4.758 m) Feb. 4, 1971; minimum daily low , 7.53 ft (2.295 m) Feb. 25, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 5, 1982	12.22	Apr. 26, 1983	10.26

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 (1.1 km) 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 (0.66 m), depth 105 ft (32.0 m) screened below 89 ft (27.1 m).
PERIOD OF RECORD.--August 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	BICARBONATE FET-FLD (MG/L AS HCO3)
OCT										
29...	1230	710	7.5	10.0	12.5	14	310	74	30	380
FEB										
28...	1200	700	7.4	11.0	12.5	22	350	84	33	380
MAY										
27...	1400	730	7.5	15.0	13.0	24	340	83	33	370
SEP										
06...	1100	720	7.3	26.5	14.0	15	330	78	32	380

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, TOTAL (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (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										
29...	59	23	.8	425	438	<.010	<.10	3	20	20
FEB										
28...	64	27	1.7	425	448	<.010	<.10	--	--	--
MAY										
27...	64	33	.9	467	480	<.010	<.10	--	--	--
SEP										
06...	62	27	.5	460	475	.040	<.10	4	20	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (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									
29...	14	3	1500	3	1	30	30	11	1.1
FEB									
28...	--	--	1600	--	--	40	--	--	1.3
MAY									
27...	--	--	2000	--	--	60	--	--	1.6
SEP									
06...	22	3	1600	<1	<1	40	20	10	1.8

MONTGOMERY COUNTY

393853084170700. Local number, MT-63.
LOCATION.--Lat 39°38'53", long 84°17'07", Hydrologic Unit 05080002, on left bank of Great Miami River 0.4 mi (0.6 km) north of city hall in Miamisburg.
Owner: Miamisburg Box Board Company.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled industrial supply water-table well, diameter 16 in (0.41 m), depth 95 ft (29.0 m) cased below 73 ft (22.3 m).
PERIOD OF RECORD.--September 1972 to September 1983 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	BICARBONATE FET-FLD (MG/L AS HCO3)
OCT 28...	0945	840	7.4	3.0	12.0	<10	360	93	31	440
FEB 28...	1000	815	7.5	5.0	13.0	12	420	110	35	450

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, TOTAL (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (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 28...	84	27	.2	452	516	<.010	<.10	12	20	20
FEB 28...	87	32	.6	460	543	<.010	<.10	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (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 28...	6	1	3000	5	2	170	70	40	1.1
FEB 28...	--	--	3200	--	--	160	--	--	1.3

393757084173600. Local number, MT-928
LOCATION.--Lat 39°37'57", long 84°17'36", Hydrologic Unit 05080002, on right bank of Great Miami River 0.2 mi (0.3 km) 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 (5.1 m), depth 95 ft (29.0 m) screened below 70 ft (21.3 m).
PERIOD OF RECORD.--September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	BICARBONATE FET-FLD (MG/L AS HCO3)
SEP 06...	1400	800	7.5	28.0	17.0	95	350	88	31	370

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, TOTAL (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (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)
SEP 06...	63	51	.3	498	463	.040	1.6	4	20	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
SEP 06...	20	15	150	10	10	150	30	7	2.3

MONTGOMERY COUNTY--Continued

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 (0.3 m), depth 84 ft (25.6 m), cased.
DATUM.--Altitude of land-surface datum is 717.6 ft (218.724 m). Measuring point: Floor of instrument shelter 0.30 ft (0.091 m) 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 (17.852 m) Nov. 24, 1974; minimum daily low, 26.16 ft (7.974 m) Mar. 22,23, 1982.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 34.37 ft (10.476 m) Sept. 30; minimum daily low, 26.91 ft (8.202 m) May 10.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.55	32.34	31.97	30.33	31.18	31.78	32.15	30.37	28.11	29.43	30.71	33.04
2	32.52	31.84	31.94	30.30	31.14	31.87	32.03	29.81	28.28	29.35	30.84	33.09
3	32.48	31.83	32.05	30.30	31.12	31.89	31.99	29.30	28.35	29.17	30.93	33.07
4	31.94	31.83	32.11	30.41	31.08	31.94	32.08	28.61	28.40	29.22	31.07	33.01
5	31.63	32.67	31.82	30.61	31.07	31.94	32.08	27.68	28.41	29.23	31.18	33.12
6	31.38	32.65	31.90	30.63	30.86	31.83	32.01	27.28	28.49	29.23	31.19	33.14
7	31.61	32.63	32.10	30.64	30.88	31.87	32.04	27.05	28.60	29.26	31.20	33.10
8	31.79	32.69	32.15	30.69	30.88	31.91	31.91	27.02	28.74	29.27	31.41	33.15
9	31.89	32.84	32.23	30.63	31.00	32.07	31.84	26.95	28.89	29.19	31.58	33.15
10	31.90	32.96	32.16	30.76	31.04	32.07	31.42	26.91	28.89	29.23	31.60	33.14
11	32.04	32.90	32.04	30.92	31.16	32.10	31.32	27.05	28.85	28.98	31.65	32.55
12	32.12	32.83	32.10	31.02	31.08	31.97	31.19	27.07	28.77	29.47	31.71	33.26
13	32.12	32.77	32.16	31.17	31.06	31.88	31.16	27.26	29.03	29.51	31.75	33.33
14	32.19	32.62	32.09	31.20	31.12	31.94	31.13	27.24	29.19	29.63	31.76	33.48
15	32.29	32.73	32.24	31.18	31.15	31.98	31.04	27.28	29.29	29.83	31.83	33.61
16	32.31	32.89	32.23	31.19	31.36	32.06	30.83	27.41	29.30	29.91	31.98	33.61
17	32.30	32.82	32.19	31.34	31.39	32.07	30.52	27.49	29.50	30.02	32.08	33.61
18	32.35	33.03	32.00	31.40	31.39	32.20	30.40	27.68	29.52	30.13	32.14	33.64
19	32.42	33.05	31.76	31.46	31.34	32.21	30.44	27.67	29.46	30.24	32.21	33.73
20	32.50	32.88	31.62	31.50	31.27	32.05	30.45	27.78	29.61	30.30	32.21	33.83
21	32.61	32.83	31.71	31.53	31.32	32.19	30.43	27.78	29.65	30.38	32.16	33.92
22	32.69	32.74	31.83	31.45	31.48	32.28	30.36	27.67	29.52	30.53	32.27	33.99
23	32.67	32.63	31.44	31.28	31.57	32.21	30.30	27.77	29.55	30.53	32.38	33.99
24	32.49	32.60	31.60	31.19	31.54	32.20	30.42	27.87	29.68	30.37	32.45	34.03
25	32.59	32.39	31.08	31.19	31.57	32.20	30.43	27.86	29.65	30.45	32.54	34.14
26	32.61	32.31	31.22	31.18	31.58	32.16	30.55	27.91	29.62	30.47	32.66	34.28
27	32.69	32.23	31.21	31.25	31.60	32.00	30.61	27.85	29.71	30.56	32.67	34.27
28	32.68	32.09	31.09	31.28	31.68	32.11	30.71	27.90	29.66	30.61	32.64	34.29
29	32.58	32.02	30.88	31.11	---	32.18	30.56	27.79	29.59	30.70	32.69	34.27
30	32.57	32.08	30.58	31.06	---	32.17	30.54	27.84	29.66	30.72	32.87	34.37
31	32.53	---	30.35	31.12	---	32.16	---	27.95	---	30.63	32.95	---
MAX	32.69	33.05	32.24	31.53	31.68	32.28	32.15	30.37	29.71	30.72	32.95	34.37

WTR YR 1983 MEAN 31.18 HIGH 26.91 LOW 34.37

MONTGOMERY COUNTY--Continued

394025084162800. Local number, MT-49.
LOCATION.--Lat 39°40'25", long 84°16'28", Hydrologic Unit 05080002, 1.2 mi (1.9 km) 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 (0.15 m), depth 220 ft (67.1 m), cased.
DATUM.--Altitude of land-surface datum is 714.61 ft (217.813 m). (Levels by Miami Conservancy District.)
Measuring point: Floor of shelter 2.50 ft (0.762 m) above land-surface datum.
PERIOD OF RECORD.--November 1947 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.30 ft (11.064 m) Dec. 8, 1974; minimum daily low, 10.58 ft (3.225 m) Jan. 23, 1959.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 22.82 ft (6.956 m) Sept. 30; minimum daily low, 17.07 ft (5.203 m) May 8.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.65	21.85	21.50	20.40	20.69	21.06	21.76	19.93	18.36	19.27	20.28	21.83
2	21.54	21.87	21.51	20.45	20.58	21.09	21.44	19.16	18.44	18.96	20.39	21.87
3	21.53	21.89	21.50	20.49	20.55	21.13	21.43	18.46	18.41	18.91	20.45	21.61
4	21.55	21.90	21.50	20.51	20.53	21.17	21.70	17.71	18.21	18.89	20.51	21.58
5	21.58	21.92	21.48	20.51	20.51	21.16	21.68	17.37	18.23	19.09	20.58	21.56
6	21.58	21.92	21.56	20.51	20.45	21.15	21.62	17.38	18.51	19.23	20.32	21.90
7	21.58	21.92	21.60	20.61	20.53	21.37	21.69	17.08	18.64	19.28	20.34	21.98
8	21.70	21.96	21.59	20.62	20.55	21.43	21.61	17.07	18.72	19.31	20.65	21.99
9	21.59	21.97	21.63	20.61	20.56	21.46	21.17	17.29	18.79	19.07	20.75	22.06
10	21.57	21.95	21.56	20.61	20.59	21.20	20.93	17.31	18.86	19.10	20.74	21.83
11	21.77	21.98	21.60	20.66	20.65	21.43	21.03	17.37	18.62	19.43	20.73	21.79
12	21.65	21.99	21.65	20.71	20.69	21.21	21.04	17.42	18.63	19.48	20.81	22.11
13	21.62	22.01	21.66	20.71	20.68	21.18	20.96	17.48	18.96	19.55	20.64	22.21
14	21.66	21.98	21.65	20.70	20.69	21.39	20.89	17.23	19.03	19.63	20.64	22.24
15	21.69	22.02	21.64	20.77	20.72	21.52	20.63	17.26	19.00	19.69	20.98	22.31
16	21.73	22.00	21.59	20.77	20.75	21.49	20.25	17.58	19.15	19.46	21.08	22.34
17	21.74	22.03	21.51	20.84	20.81	21.58	20.16	17.67	19.22	19.48	21.13	22.12
18	21.74	22.04	21.37	20.88	20.81	21.58	20.41	17.72	18.84	19.77	21.20	22.08
19	21.77	22.04	21.33	20.92	20.84	21.38	20.48	17.75	18.84	19.81	21.23	22.41
20	21.81	22.02	21.33	20.92	20.87	21.36	20.47	17.88	19.11	19.69	21.01	22.46
21	21.82	21.99	21.35	20.90	20.89	21.61	20.49	17.61	19.15	19.81	21.02	22.52
22	21.83	21.86	21.32	20.85	20.88	21.41	20.51	17.57	19.21	19.68	21.39	22.55
23	21.82	21.76	21.32	20.73	20.92	21.31	20.24	17.91	19.26	19.71	21.48	22.64
24	21.81	21.82	21.34	20.67	20.95	21.55	20.22	17.95	19.31	19.69	21.56	22.41
25	21.83	21.77	21.33	20.64	21.02	21.63	20.51	18.02	19.07	19.74	21.59	22.34
26	21.85	21.72	21.33	20.63	21.03	21.38	20.59	18.11	19.11	19.78	21.64	22.67
27	21.85	21.73	21.22	20.64	21.04	21.30	20.62	18.16	19.41	19.89	21.68	22.72
28	21.86	21.61	20.66	20.64	21.04	21.63	20.56	17.90	19.42	19.87	21.42	22.73
29	21.86	21.54	20.45	20.63	---	21.72	20.69	17.89	19.44	19.92	21.66	22.77
30	21.87	21.52	20.42	20.68	---	21.73	20.36	17.91	19.37	19.95	21.71	22.82
31	21.85	---	20.39	20.69	---	21.72	---	18.24	---	19.97	21.77	---
MAX	21.87	22.04	21.66	20.92	21.04	21.73	21.76	19.93	19.44	19.97	21.77	22.82

WTR YR 1983 MEAN 20.67 HIGH 17.07 LOW 22.82

MONTGOMERY COUNTY--Continued

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. (0.15 m), depth 80 ft (24.4 m), cased.
DATUM.--Altitude of land-surface datum is 744 ft (226.8 m), from topographic map. Measuring point: Floor of instrument shelter 1.20 ft (0.366 m) above land-surface datum.
PERIOD OF RECORD.--May 1945 to June 1974. Re-activated June 1980.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 79.45 ft (24.216 m) Apr. 6, 1971; minimum daily low, 25.72 ft (7.839 m) Mar. 21. 1982.
EXTREMES FOR CURRENT YEAR.--Maximum daily low 41.20 ft (12.558 m) Sept. 16, minimum daily low, 28.11 ft (8.568 m) May 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.10	32.53	30.40	29.31	29.25	30.54	29.28	30.04	31.57	34.73	38.33	40.01
2	33.10	32.95	30.44	29.34	28.96	30.76	29.11	29.43	31.77	34.84	38.36	40.09
3	32.22	32.36	30.46	30.52	29.02	29.91	29.11	28.78	31.69	35.02	38.16	40.43
4	32.94	32.00	30.46	30.30	29.83	29.62	29.13	28.11	31.28	35.18	38.38	40.64
5	33.12	31.89	30.33	29.67	29.13	29.51	29.12	28.37	31.12	35.45	38.30	40.76
6	32.54	31.83	30.56	29.57	28.92	29.42	29.15	28.66	31.11	35.58	38.57	40.92
7	33.10	31.72	31.46	29.62	29.09	29.38	29.23	28.99	30.94	35.69	38.79	40.25
8	33.07	31.71	31.68	29.61	29.09	29.40	29.21	29.17	31.01	35.72	38.97	39.65
9	33.28	31.72	31.77	29.51	29.02	29.40	28.96	29.34	31.08	35.75	38.97	39.34
10	33.28	31.69	31.74	29.39	29.02	29.33	28.86	29.35	31.17	35.89	39.03	39.38
11	33.38	31.63	31.09	29.51	29.06	29.33	28.84	29.40	31.28	36.16	38.83	39.39
12	33.25	31.55	30.78	29.65	29.12	29.28	29.69	29.49	31.34	36.41	38.63	40.25
13	33.17	31.56	31.72	30.35	29.09	29.19	29.05	29.62	31.52	36.56	38.29	40.71
14	33.16	31.42	31.07	30.36	28.97	29.23	28.88	29.71	31.64	36.71	38.02	40.99
15	33.28	31.53	30.78	29.71	29.03	29.27	28.69	29.78	31.82	36.80	38.56	41.10
16	33.45	31.43	30.60	29.63	29.00	29.27	28.49	29.97	31.97	36.92	38.85	41.20
17	33.49	31.45	31.14	29.68	29.06	30.22	28.49	29.91	31.99	37.05	38.82	40.92
18	33.57	31.46	30.36	29.73	29.98	30.46	28.58	29.89	32.07	37.14	39.12	40.44
19	33.39	31.46	30.11	29.75	29.25	29.66	28.68	29.83	32.12	36.84	39.13	40.66
20	33.47	31.36	30.16	29.67	29.13	29.53	29.90	29.92	32.08	36.82	39.54	40.50
21	33.47	31.30	31.18	30.34	29.11	29.44	28.96	29.97	32.85	36.94	39.79	40.33
22	33.37	31.13	31.17	29.58	29.02	29.44	28.92	30.10	33.48	36.90	40.04	40.15
23	33.22	30.99	30.37	29.29	29.05	29.35	28.83	30.72	33.84	37.08	40.17	39.64
24	32.43	31.10	30.21	29.22	29.02	29.34	28.77	30.26	33.99	37.31	40.06	39.48
25	33.09	30.97	30.19	29.25	29.12	29.38	28.83	31.11	34.15	37.56	39.84	39.52
26	33.11	30.71	30.15	29.23	29.14	29.35	28.88	31.57	33.39	37.35	40.17	39.63
27	32.36	30.68	30.43	29.24	29.08	29.18	29.02	31.72	34.23	37.31	40.36	39.37
28	32.10	30.54	29.58	30.17	30.12	29.41	28.99	31.18	34.55	37.31	40.46	39.63
29	31.98	30.41	29.25	29.41	---	29.47	29.96	30.79	34.74	37.40	40.49	39.81
30	31.92	30.39	29.31	29.18	---	29.40	30.16	30.60	34.82	37.76	40.10	40.06
31	31.81	---	29.29	29.27	---	29.32	---	31.56	---	38.03	40.00	---
MAX	33.57	32.95	31.77	30.52	30.12	30.76	30.16	31.72	34.82	38.03	40.49	41.20

WTR YR 1983 MEAN 32.57 HIGH 28.11 LOW 41.20

MONTGOMERY COUNTY--Continued

394533084113800. Local number, MT-6.
LOCATION.--Lat 39°45'33", long 84°11'38", Hydrologic Unit 05080002, 3rd and Ludlow Sts., Dayton.
Owner: City of Dayton
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.2 m), depth 60 ft (18.3 m), cased.
DATUM.--Altitude of land-surface datum is 740 ft (226 m) from topographic map. Measuring point: Floor of instrument shelter 13.00 ft (3.962 m) below land-surface datum.
PERIOD OF RECORD.--February 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.20 ft (18.349 m) Oct. 2, 1970; minimum daily low, 21.23 ft (6.471 m) Feb. 26, 1982.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 34.71 ft (10.580 m) Sept. 20; minimum daily low, 23.84 ft (7.266 m) Feb. 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.26	29.18	27.71	25.61	24.09	25.45	26.17	26.23	26.65	30.80	31.89	34.15
2	30.04	29.62	28.58	25.39	24.74	25.71	25.99	26.97	26.85	30.71	32.46	34.38
3	29.51	29.16	28.49	25.72	24.47	25.97	25.68	26.29	27.02	30.06	32.46	33.92
4	30.18	28.25	28.28	25.71	24.38	26.19	26.10	25.83	26.89	29.62	32.86	33.87
5	30.62	27.92	28.09	25.67	24.10	26.11	26.15	25.56	26.43	29.94	32.93	33.45
6	30.73	27.74	28.14	25.60	23.88	25.85	26.50	25.73	27.24	30.46	32.72	33.83
7	30.92	27.55	28.13	25.61	23.84	26.39	26.30	25.38	27.58	30.70	32.41	34.23
8	30.79	28.06	28.14	25.30	24.14	26.34	26.06	24.85	28.09	30.39	32.73	34.11
9	30.53	28.26	28.07	25.07	24.26	26.14	25.66	25.08	28.34	30.55	32.78	34.33
10	30.26	28.10	27.81	25.30	24.37	25.81	25.44	25.30	28.41	29.92	32.77	33.99
11	30.44	28.31	27.56	25.38	24.48	25.64	25.26	26.16	28.02	30.88	33.18	33.85
12	30.08	28.36	27.41	25.48	24.54	25.52	25.67	26.31	27.57	31.13	33.03	34.51
13	29.83	27.90	27.31	25.64	24.57	25.43	25.75	26.69	28.69	31.22	32.64	34.58
14	30.14	27.49	27.14	25.51	24.53	25.94	25.94	26.23	28.95	31.43	32.29	34.29
15	29.54	27.50	27.26	25.30	24.57	26.09	25.60	25.72	29.27	31.73	32.84	34.60
16	29.23	27.84	27.24	25.13	24.62	26.13	25.22	25.75	29.17	31.66	33.14	34.44
17	29.02	28.05	27.03	25.41	24.66	26.28	24.94	26.04	29.61	31.09	33.34	34.16
18	28.79	28.03	26.95	25.32	24.63	26.28	24.92	26.07	28.97	31.64	33.58	33.82
19	29.00	28.27	26.86	25.26	24.71	25.95	24.69	26.26	28.51	31.97	33.92	34.61
20	29.24	28.05	26.85	25.42	24.75	25.73	24.83	27.06	29.08	32.04	33.63	34.71
21	29.06	28.11	26.85	25.36	25.19	25.52	25.25	26.25	29.53	32.33	33.35	33.93
22	28.65	27.91	26.95	24.98	25.48	25.51	25.50	26.19	30.05	32.29	33.68	33.59
23	28.51	27.91	26.89	24.72	25.23	25.49	25.46	26.75	30.12	32.34	33.74	33.02
24	28.39	27.70	26.86	25.05	25.04	25.62	25.11	27.00	30.14	31.49	33.76	32.48
25	28.27	27.43	26.60	24.83	25.01	25.44	25.56	27.11	30.29	31.86	33.98	32.08
26	28.76	27.25	26.56	24.57	25.02	25.48	26.22	26.71	29.45	32.06	34.06	32.32
27	28.51	26.95	26.61	24.44	24.96	25.29	26.85	26.60	30.18	32.22	34.14	32.97
28	28.79	27.02	26.61	24.35	25.18	25.73	26.85	26.45	30.53	32.39	33.64	32.92
29	28.70	27.25	26.43	24.25	---	25.65	26.61	25.99	30.45	32.63	33.88	33.28
30	28.21	27.46	26.30	24.18	---	25.80	26.57	25.68	30.49	32.54	33.97	33.30
31	28.00	---	25.98	24.15	---	26.00	---	26.14	---	32.10	34.03	---
MAX	30.92	29.62	28.58	25.72	25.48	26.39	26.85	27.11	30.53	32.63	34.14	34.71

WTR YR 1983 MEAN 28.30 HIGH 23.84 LOW 34.71

MUSKINGUM COUNTY

395804081593200. Local number, MU-1A.
LOCATION.--Lat 39°58'04", long 81°59'32", Hydrologic Unit 05040004, 2.2 mi (3.5 km) 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 (0.15 m), depth 109 ft (33.2 m), cased.
DATUM.--Altitude of land-surface datum is 700 ft (213 m), from topographic map. Measuring point: Floor of instrument shelter 4.48 ft (1.366 m) 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 (40.2 m).
PERIOD OF RECORD.--May 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.25 ft (11.354 m) Aug. 1-2, 1954; minimum daily low, 8.50 ft (2.591 m) May 25, 1967.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 27.88 ft (8.498 m) Apr. 1; minimum daily low, 12.57 ft (3.831 m) May 11.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.24	21.08	20.49	19.09	22.45	22.91	27.88	16.92	15.07	19.89	22.48	24.63
2	20.13	21.23	20.39	18.98	22.50	23.01	26.96	16.95	15.59	19.81	22.47	24.60
3	20.02	21.41	20.22	19.36	22.46	23.14	27.13	16.34	15.93	19.50	22.33	24.75
4	20.11	21.42	20.33	19.58	22.36	23.23	27.16	15.42	16.22	19.57	22.31	25.00
5	20.08	21.45	20.21	19.75	22.17	23.32	26.92	14.44	16.52	19.51	22.50	24.83
6	20.28	21.42	20.55	19.89	21.88	23.36	25.82	13.81	16.51	19.27	22.40	24.89
7	20.34	21.31	20.78	20.12	21.66	23.39	25.71	13.66	16.31	19.47	22.09	25.19
8	20.38	21.31	20.81	20.28	21.64	23.42	26.09	13.52	16.68	19.57	22.86	25.40
9	20.44	21.31	20.83	20.31	21.66	23.80	26.28	13.76	16.83	18.93	23.16	25.40
10	20.58	21.11	20.81	20.45	21.69	24.40	25.87	13.48	17.85	19.24	23.48	24.99
11	20.61	21.25	20.89	20.61	21.78	24.81	25.12	12.57	17.92	19.58	23.60	24.73
12	20.54	21.35	20.90	20.90	21.76	25.05	24.75	12.79	18.02	20.05	23.38	24.68
13	20.64	21.32	20.88	21.00	21.65	25.12	23.89	12.92	17.70	20.59	23.47	24.49
14	20.74	21.13	20.97	21.08	21.23	25.32	22.25	12.84	17.90	20.60	23.40	24.34
15	20.76	20.67	21.09	21.15	21.63	25.30	21.76	13.04	18.22	20.85	23.38	24.01
16	20.72	20.96	21.29	21.18	21.86	25.22	19.99	14.31	18.92	21.37	23.61	23.67
17	20.56	21.07	21.35	21.28	22.02	25.79	17.61	14.50	19.22	21.20	23.74	23.54
18	20.68	21.09	21.20	21.52	22.13	26.43	17.03	14.52	19.29	20.74	23.78	23.39
19	20.65	21.18	21.08	21.64	22.13	26.59	16.27	14.63	19.26	21.19	24.02	23.45
20	20.57	21.15	21.12	21.75	22.13	26.54	16.41	14.30	19.31	21.95	24.44	23.43
21	20.86	21.21	21.13	21.87	22.25	26.94	17.17	14.94	19.30	22.09	24.65	23.27
22	21.01	21.19	21.15	21.92	22.36	27.09	17.46	15.06	18.28	22.09	24.62	23.85
23	21.05	21.16	21.00	21.94	22.47	27.38	16.99	---	18.05	21.58	24.70	24.40
24	20.90	21.14	21.27	22.10	22.49	27.50	16.86	---	18.45	21.37	24.76	24.06
25	20.88	21.02	21.06	22.18	22.65	27.16	16.91	14.07	18.79	21.29	24.45	23.46
26	20.94	20.73	20.82	22.29	22.69	27.40	16.54	14.57	19.25	21.49	24.17	22.94
27	20.97	20.75	20.64	22.33	22.76	27.34	17.34	14.61	19.92	21.69	24.35	23.23
28	21.10	20.63	20.46	22.36	22.85	27.48	17.37	14.92	19.92	21.68	24.52	23.43
29	21.13	20.43	20.21	22.38	---	27.48	17.44	14.90	19.88	22.02	24.96	23.62
30	21.25	20.56	19.83	22.31	---	27.53	16.93	14.96	19.85	22.62	24.99	24.19
31	21.22	---	19.38	22.44	---	27.76	---	14.90	---	22.65	24.82	---
MAX	21.25	21.45	21.35	22.44	22.85	27.76	27.88	16.95	19.92	22.65	24.99	25.40

WTR YR 1983 MEAN 21.17 HIGH 12.57 LOW 27.88

PICKAWAY COUNTY

393327082571600. Local number, PK-7.
LOCATION.--Lat 39°33'27", long 82°57'16", Hydrologic Unit 05060002, 3.1 mi (5.0 km) south of Circleville.
Owner: State of Ohio.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in (0.15 m) depth drilled 172 ft (52.4 m), present depth 169 ft (51.5 m), cased to 164 ft (50.0 m).
DATUM.--Altitude of land-surface datum is 705 ft (215 m), from topographic map. Measuring point: Floor of instrument shelter, 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--July 1972 to September 1982 continuous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.80 ft (16.703 m) Sept. 15, 1977; minimum daily low, 38.32 ft (11.680 m) Dec. 25, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 13, 1982	46.29	Feb. 28, 1983	48.21	May 2, 1983	48.92	June 29, 1983	47.15

PICKAWAY COUNTY--Continued

393402082572500. Local number, Pk-4.
LOCATION.--Lat 39°34'02", long 82°57'25", Hydrologic Unit 05060002, 2 mi (3.2 km) 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 (0.15 m), depth 136 ft (41.5 m), cased.
DATUM.--Altitude of land-surface datum is 707 ft (215 m), from topographic map. Measuring point: Floor of instrument shelter 3.50 ft (1.067 m) 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 (24.430 m) Nov. 3, 1972; minimum daily low, 47.40 ft (14.448 m) Feb. 25, 1960.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 72.80 ft (22.189 m) Aug. 10; minimum daily low, 63.50 ft (19.355 m) Oct. 15.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.95	65.50	72.00	66.75	70.55	69.05	67.50	66.15	68.75	70.00	67.60	69.90
2	65.00	65.65	71.50	69.05	---	69.30	67.35	65.65	68.90	69.05	67.75	69.65
3	65.00	65.70	71.60	66.40	70.85	69.25	67.45	65.25	68.90	69.50	67.40	69.85
4	65.25	67.25	71.15	69.15	71.00	67.55	67.50	65.55	68.75	69.15	67.00	70.15
5	69.55	65.90	---	67.75	70.65	71.00	67.50	65.85	68.65	68.70	67.30	70.20
6	69.60	68.30	---	67.50	70.55	65.50	67.80	65.60	68.70	68.75	66.90	70.70
7	68.90	65.75	---	67.85	70.75	66.20	67.45	65.70	68.70	68.60	66.85	69.40
8	65.75	65.90	64.55	67.75	70.90	68.25	67.25	65.75	69.55	68.70	70.00	69.50
9	66.70	66.05	64.75	67.65	71.10	68.35	67.10	70.35	69.45	68.30	71.40	70.45
10	66.15	65.90	64.40	67.45	71.15	65.20	67.20	70.05	69.65	68.75	72.80	70.15
11	63.65	65.85	64.20	67.35	70.85	65.00	67.30	72.45	69.85	69.20	68.80	70.15
12	63.75	69.80	68.65	68.20	69.15	68.55	67.30	69.60	69.85	69.25	67.75	70.60
13	63.75	69.90	69.65	67.95	67.90	65.70	70.30	70.00	69.80	69.25	66.70	70.75
14	68.35	69.45	69.80	68.15	68.00	64.95	69.85	68.75	69.35	69.65	66.95	71.60
15	63.50	69.60	69.80	68.15	68.50	68.25	70.00	68.40	68.35	71.80	68.20	71.80
16	65.35	66.00	69.85	65.25	68.45	68.10	69.80	68.45	72.65	71.50	70.80	70.65
17	65.20	66.05	70.05	67.65	69.75	65.15	69.80	68.50	69.25	70.85	70.20	70.50
18	65.50	66.15	67.80	67.75	68.80	67.65	69.80	68.50	69.20	71.40	70.40	70.30
19	65.60	66.15	67.20	67.40	68.45	68.00	69.85	67.65	69.05	71.15	70.05	70.55
20	65.50	65.75	67.45	67.15	71.15	68.05	69.80	67.45	69.70	71.45	70.00	70.45
21	65.70	65.70	67.40	67.15	---	70.65	68.10	70.10	69.75	71.45	69.90	70.45
22	65.85	65.70	67.35	67.05	---	68.15	---	67.30	69.45	70.85	69.50	70.20
23	67.95	65.80	67.30	69.85	---	68.25	70.35	68.55	69.50	70.75	70.10	69.50
24	65.05	66.10	69.70	68.50	---	68.15	65.20	67.15	68.75	70.30	71.90	69.15
25	65.40	65.80	67.10	67.60	---	68.45	65.40	66.95	71.05	69.95	69.80	69.10
26	68.65	65.60	66.80	68.55	---	70.45	71.15	66.95	68.80	67.75	69.00	69.75
27	69.30	69.15	67.25	69.60	---	67.75	65.95	69.80	68.45	72.45	69.00	70.15
28	69.30	65.80	67.15	67.75	69.00	68.10	65.90	71.50	68.75	68.55	69.15	70.30
29	65.50	68.95	67.45	70.20	---	68.15	66.30	68.40	68.90	68.35	---	70.25
30	65.25	71.75	67.85	70.40	---	68.00	66.10	68.45	69.35	68.40	---	70.15
31	65.15	---	67.50	70.85	---	67.85	---	68.85	---	67.70	69.95	---
MAX	69.60	71.75	72.00	70.85	71.15	71.00	71.15	72.45	72.65	72.45	72.80	71.80

WTR YR 1983 MEAN 68.40 HIGH 63.50 LOW 72.80

PICKAWAY COUNTY--Continued

393638082572300. Local number, PK-6.
LOCATION.--Lat 39°36'38", long 82°57'23", Hydrologic Unit 05060002, water works plant 1 mi (1.6 km) northwest of Circleville.
Owner: Circleville Water Dept.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 120 ft (36.6 m), cased.
DATUM.--Altitude of land-surface datum is 672 ft (205 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) 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 (11.375 m) Feb. 24, 1977; minimum daily low, 14.50 ft (4.420 m) Feb. 2, 1969.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 35.20 ft (10.729 m) Oct. 26; minimum daily low, 21.05 ft (6.416 m) May 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.65	31.80	33.05	30.15	32.05	32.90	30.30	29.55	29.15	31.30	29.20	32.20
2	31.50	34.40	32.95	30.85	30.85	32.80	31.30	28.75	29.05	30.95	29.70	32.25
3	34.50	34.40	33.50	28.25	30.85	33.15	31.75	23.40	29.15	31.25	32.20	32.35
4	34.65	31.85	33.25	30.35	29.25	33.25	32.55	23.35	29.85	28.05	32.95	32.40
5	34.40	31.85	33.75	27.70	30.75	33.20	31.70	21.05	30.15	28.00	32.85	32.30
6	34.55	34.25	32.90	27.90	28.95	33.25	32.85	25.05	29.95	28.80	32.80	32.75
7	34.60	35.15	33.50	30.25	30.65	33.20	32.45	23.05	30.65	31.05	32.80	32.80
8	34.35	34.85	33.90	29.65	29.25	33.30	30.60	25.20	30.55	31.15	32.75	32.80
9	34.40	34.65	32.55	30.20	29.55	33.05	30.80	26.10	28.40	31.65	32.90	32.80
10	30.90	35.00	33.55	30.40	30.50	31.75	27.70	26.15	27.55	30.35	32.85	32.90
11	34.45	35.05	33.45	31.25	32.05	32.15	30.05	27.10	27.60	31.30	32.85	33.35
12	33.45	34.20	31.30	31.85	32.40	31.80	29.50	27.30	30.75	29.00	32.80	33.50
13	34.65	34.65	31.70	29.80	31.10	32.05	30.60	24.40	31.45	30.65	32.70	32.80
14	34.90	34.75	34.00	31.05	32.55	33.00	29.70	26.95	30.20	32.90	32.55	32.85
15	34.40	34.75	34.05	31.65	31.35	33.30	29.85	28.55	31.05	33.10	32.75	33.15
16	31.90	32.65	32.85	30.45	32.25	32.90	30.00	28.20	30.65	32.95	32.85	32.90
17	34.35	32.85	33.40	29.25	31.90	32.95	28.55	27.20	31.35	32.50	32.90	32.25
18	33.95	35.00	31.05	30.35	32.20	32.55	28.70	27.85	30.85	32.55	32.85	32.15
19	31.70	33.50	32.70	30.45	30.30	32.20	27.20	26.10	31.35	32.20	34.05	31.45
20	34.50	32.70	29.60	30.65	31.85	32.90	28.15	27.45	31.35	32.05	33.40	33.05
21	33.25	32.55	29.05	31.40	32.35	33.35	29.50	26.60	30.45	32.15	32.95	33.05
22	34.85	34.10	31.40	32.10	31.60	32.40	29.35	28.95	29.70	32.35	32.85	33.00
23	34.55	34.15	32.35	31.95	31.05	32.85	29.20	28.65	30.20	32.45	33.75	---
24	34.95	34.35	31.85	31.15	32.30	31.75	30.85	28.95	30.55	32.15	31.75	---
25	34.70	32.95	32.10	31.10	32.45	29.95	28.50	28.25	30.85	32.20	32.35	---
26	35.20	30.60	30.35	29.50	32.65	29.25	28.45	25.60	27.58	32.45	30.75	---
27	33.50	33.30	30.30	30.10	30.85	29.75	31.95	27.35	31.25	32.60	32.55	---
28	31.75	34.40	31.45	31.40	31.05	29.75	31.60	25.70	31.30	32.65	32.50	---
29	34.00	33.00	30.55	30.75	---	30.10	31.35	28.75	27.75	30.00	33.30	33.20
30	33.65	31.75	---	29.80	---	30.20	31.30	28.10	30.85	29.10	---	33.20
31	35.15	---	27.55	30.75	---	30.10	---	28.10	---	29.15	32.50	---
MAX	35.20	35.15	34.05	32.10	32.65	33.35	32.85	29.55	31.45	33.10	34.05	33.50

WTR YR 1983 MEAN 31.38 HIGH 21.05 LOW 35.20

PICKAWAY COUNTY--Continued

39348083072200. Local number, Pk-8.
LOCATION.--Lat 39°34'38", long 83°07'22", Hydrologic Unit 05060002, 0.5 mi (0.8 km) south of Williamsport. Owner: Village of Williamsport.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 10 in (0.25 m), depth 18 ft (5.5 m), cased.
DATUM.--Altitude of land-surface datum is 723 ft (220.3 m), from topographic map. Measuring point: Floor of instrument shelter 0.9 ft (0.274 m) 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 9.98 ft (3.042 m) Sept. 26, 1983; minimum daily low, 0.05 ft (0.015 m) May 3, 1983.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 9.98 ft (3.042 m) Sept. 26; minimum recorded daily low, 0.05 ft (0.015 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.62	9.65	6.20	2.78	4.77	5.36	6.91	3.73	---	5.96	7.68	9.35
2	8.58	9.63	6.29	3.07	4.77	5.42	6.91	.90	3.73	5.93	7.85	9.31
3	8.62	9.53	6.33	3.28	4.57	5.46	7.09	.05	3.88	5.86	8.02	9.67
4	8.66	9.52	6.45	3.49	4.48	5.51	6.92	.27	3.82	5.90	8.97	9.39
5	9.43	9.59	6.38	3.70	4.40	5.72	6.90	.68	3.74	6.01	9.77	9.29
6	9.43	9.55	6.50	3.83	4.26	5.66	6.83	---	3.95	6.13	9.88	9.53
7	9.03	9.74	6.42	4.03	4.45	5.78	6.80	---	4.20	6.21	9.96	9.47
8	8.93	9.76	6.50	4.19	4.47	5.89	6.75	---	4.42	6.29	9.56	9.54
9	8.91	9.66	6.78	4.16	4.61	5.90	4.61	---	4.53	6.30	9.44	9.61
10	8.92	9.63	7.02	4.36	4.63	5.93	2.97	---	4.75	6.37	9.35	9.68
11	8.90	9.52	7.45	4.50	4.69	6.20	2.61	---	4.93	6.56	9.17	9.64
12	8.90	9.75	7.56	4.44	4.83	6.60	3.48	---	4.86	6.75	9.01	9.75
13	8.85	9.67	7.79	4.92	4.83	6.27	3.53	---	5.18	6.89	8.98	9.80
14	9.02	9.62	7.62	4.73	4.84	6.20	3.40	---	5.34	7.09	8.87	9.83
15	9.19	9.53	7.51	4.86	4.88	6.26	3.35	---	5.34	7.18	8.81	9.77
16	9.04	9.62	7.40	4.89	4.92	6.25	3.02	---	5.27	7.31	9.24	9.72
17	9.03	9.48	6.86	5.05	4.96	6.24	2.92	---	5.40	7.29	9.21	9.74
18	9.14	9.27	6.55	5.16	4.99	6.24	3.00	---	5.41	7.28	9.19	9.73
19	9.24	9.09	6.17	5.19	4.98	6.55	3.14	---	5.27	7.18	9.20	9.71
20	9.21	8.92	5.55	5.26	5.01	6.40	3.24	---	5.32	7.23	9.38	9.87
21	9.08	8.71	5.43	5.36	5.10	6.41	3.46	---	5.44	7.43	9.22	9.79
22	9.13	8.68	5.26	5.31	5.12	6.46	3.54	---	5.46	7.39	9.28	9.76
23	9.20	7.82	5.19	5.04	5.13	6.47	3.68	.60	5.50	7.48	9.41	9.82
24	9.10	7.67	4.81	4.88	5.16	6.50	3.71	.63	5.51	7.43	9.01	9.75
25	9.27	7.77	4.51	4.84	5.19	6.60	3.83	---	5.61	7.36	9.23	9.75
26	9.28	7.61	4.24	4.76	5.26	6.69	4.00	---	5.63	7.42	9.35	9.98
27	9.50	7.61	3.60	4.76	5.28	6.66	4.14	---	5.75	7.66	9.43	9.95
28	9.50	7.31	2.99	4.82	5.32	6.72	4.25	---	5.79	7.60	9.43	9.91
29	9.47	6.80	2.58	4.86	---	6.79	4.43	---	5.79	7.58	9.25	9.91
30	9.54	6.38	2.60	4.83	---	6.81	4.47	---	5.86	7.63	9.12	9.96
31	9.41	---	2.56	4.89	---	6.83	---	---	---	7.77	9.32	---
MAX	9.54	9.76	7.79	5.36	5.32	6.83	7.09	3.73	5.86	7.77	9.96	9.98

WTR YR 1983 MEAN 6.68 HIGH .05 LOW 9.98

PIKE COUNTY

390359083015100. Local number, PI-2.
LOCATION.--Lat 39°03'59", long 83°01'51", Hydrologic Unit 05060002, 1 mi (1.6 km) west of Piketon.
Owner. Goodyear Atomic Corporation.
AQUIFER.--Sand and gravel of Quaternary Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 60 ft (18.3 m), cased.
DATUM.--Altitude of land-surface datum is 550 ft (168 m), from topographic map. Measuring point: Floor of instrument shelter, 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--September 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.46 ft (8.370 m) Feb. 15, 1977; minimum daily low, 10.06 ft (3.066 m) Mar. 1, 1979.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 26.26 ft (8.004 m) Nov. 18-24; minimum daily low, 10.65 ft (3.246 m) May 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	26.17	25.99	24.05	24.50	24.52	25.36	23.09	17.21	21.48	23.27	24.79
2	---	26.17	25.95	23.87	24.50	24.55	25.38	23.04	17.48	21.57	23.34	24.84
3	---	26.17	25.89	23.72	24.50	24.59	25.39	22.96	17.66	21.60	23.40	24.87
4	---	26.18	25.82	23.61	24.50	24.62	25.40	22.66	17.90	21.60	23.45	24.91
5	---	26.19	25.76	23.53	24.49	24.66	25.40	17.30	18.10	21.50	23.52	24.93
6	---	26.20	25.72	23.48	24.40	24.69	25.40	11.31	18.29	21.61	23.57	24.97
7	---	26.20	25.68	23.49	24.32	24.72	25.37	10.65	18.46	21.66	23.62	24.99
8	---	26.21	25.66	23.51	24.27	24.76	25.35	10.86	18.65	21.73	23.67	25.03
9	---	26.21	25.63	23.54	24.22	24.81	25.18	---	18.84	21.78	23.74	25.05
10	---	26.21	25.62	23.58	24.18	24.85	25.14	---	19.03	21.87	23.78	25.08
11	---	26.21	25.61	23.64	24.16	24.89	25.04	13.13	19.21	21.95	23.84	25.12
12	---	26.22	25.61	23.71	24.17	24.93	24.91	13.56	19.38	22.02	23.91	25.14
13	---	26.23	25.62	23.76	24.18	24.96	24.73	13.85	19.56	22.11	23.97	25.17
14	---	26.23	25.64	23.81	24.20	25.00	24.51	14.13	19.72	22.19	24.03	25.20
15	26.02	26.24	25.65	23.88	24.23	25.04	24.27	14.35	19.90	22.26	24.08	25.22
16	26.02	26.25	25.60	23.92	24.25	25.06	24.08	14.56	20.07	22.36	24.13	25.24
17	26.03	26.25	25.58	23.99	24.28	25.09	23.87	14.76	20.23	22.44	24.18	25.26
18	26.04	26.26	25.58	24.07	24.30	25.11	23.66	14.93	20.37	22.53	24.23	25.29
19	26.05	26.26	25.56	24.13	24.33	25.15	23.44	15.09	20.52	22.60	24.29	25.31
20	26.06	26.26	25.52	24.18	24.34	25.16	23.25	15.29	20.66	22.65	24.33	25.33
21	26.08	26.26	25.45	24.24	24.35	25.20	23.11	15.44	20.81	22.69	24.37	25.35
22	26.08	26.26	25.37	24.30	24.35	25.23	22.99	15.47	20.89	22.75	24.42	25.37
23	26.09	26.26	25.26	24.36	24.37	25.24	22.92	15.60	20.94	22.80	24.46	25.39
24	26.10	26.26	25.14	24.41	24.39	25.26	22.86	15.68	20.96	22.83	24.51	25.41
25	26.11	26.25	25.02	24.44	24.43	25.28	22.88	15.76	21.01	22.90	24.56	25.43
26	26.12	26.21	24.89	24.45	24.46	25.29	22.92	15.92	21.08	22.95	24.60	25.44
27	26.12	26.16	24.76	24.46	24.47	25.30	22.95	16.07	21.14	23.00	24.63	25.45
28	26.14	26.12	24.62	24.46	24.49	25.31	22.99	16.22	21.22	23.05	24.66	25.47
29	26.14	26.06	24.52	24.46	---	25.33	23.03	16.40	21.30	23.11	24.71	25.50
30	26.15	26.03	24.39	24.48	---	25.33	23.07	16.64	21.39	23.16	24.75	25.53
31	26.16	---	24.23	24.50	---	25.34	---	16.92	---	23.21	24.77	---
MAX	26.16	26.26	25.99	24.50	24.50	25.34	25.40	23.09	21.39	23.21	24.77	25.53

WTR YR 1983 MEAN 23.47 HIGH 10.65 LOW 26.26

PORTAGE COUNTY

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 (0.15 m), depth 55 ft (16.8 m), cased.
DATUM.--Altitude of land-surface datum is 980 ft (298 m) from topographic map. Measuring point: Floor of instrument shelter 0.60 ft (0.183 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORED.--May 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.08 ft (7.035 m) Feb. 22, 1954; minimum daily low, 14.59 ft (4.448 m) June 24, 1947.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 22.06 ft (6.724 m) Dec. 9; minimum daily low, 19.27 ft (5.873 m) June 6, 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.49	21.83	21.97	21.59	21.39	21.09	20.61	19.93	19.33	19.52	19.80	20.40
2	21.50	21.83	21.97	21.58	21.31	21.09	20.58	19.83	19.35	19.49	19.85	20.40
3	21.51	21.85	21.96	21.60	21.28	21.11	20.56	19.78	19.32	19.45	19.85	20.43
4	21.53	21.84	21.99	21.61	21.33	21.09	20.59	19.72	19.28	19.44	19.86	20.44
5	21.56	21.86	21.97	21.61	21.32	21.11	20.57	19.75	19.29	19.45	19.88	20.45
6	21.57	21.87	22.03	21.57	21.25	21.10	20.53	19.75	19.27	19.49	19.88	20.47
7	21.56	21.87	22.04	21.61	21.26	21.08	20.51	19.69	19.27	19.52	19.89	20.49
8	21.58	21.89	22.04	21.62	21.26	21.07	20.50	19.73	19.32	19.50	19.91	20.50
9	21.59	21.91	22.06	21.59	21.24	21.07	20.47	19.72	19.32	19.48	19.96	20.50
10	21.60	21.91	21.98	21.54	21.22	21.07	20.39	19.70	19.32	19.50	19.98	20.50
11	21.63	21.89	22.02	21.51	21.18	21.03	20.37	19.67	19.32	19.51	19.95	20.51
12	21.64	21.91	22.02	21.56	21.21	21.01	20.37	19.64	19.32	19.53	20.00	20.54
13	21.63	21.95	22.02	21.52	21.18	20.98	20.36	19.63	19.37	19.58	20.03	20.55
14	21.63	21.93	22.01	21.49	21.12	20.95	20.30	19.60	19.36	19.57	20.04	20.58
15	21.64	21.96	22.00	21.50	21.15	20.97	20.19	19.59	19.33	19.57	20.04	20.60
16	21.68	21.95	21.92	21.48	21.14	20.97	20.19	19.58	19.35	19.59	20.05	20.56
17	21.69	21.95	21.92	21.50	21.17	20.94	20.14	19.59	19.36	19.59	20.06	20.59
18	21.70	21.96	21.88	21.53	21.16	20.93	20.13	19.59	19.36	19.60	20.10	20.59
19	21.70	21.97	21.83	21.53	21.14	20.87	20.12	19.56	19.36	19.61	20.13	20.62
20	21.73	21.98	21.86	21.51	21.15	20.85	20.10	19.58	19.36	19.62	20.14	20.61
21	21.74	21.97	21.88	21.49	21.12	20.79	20.09	19.58	19.36	19.63	20.19	20.62
22	21.75	21.97	21.88	21.45	21.09	20.84	20.09	19.50	19.37	19.65	20.18	20.66
23	21.77	21.94	21.82	21.42	21.09	20.83	20.07	19.41	19.37	19.63	20.23	20.70
24	21.77	21.99	21.73	21.45	21.08	20.81	20.01	19.44	19.38	19.61	20.27	20.71
25	21.77	21.98	21.70	21.46	21.12	20.83	20.03	19.41	19.43	19.62	20.29	20.68
26	21.81	21.98	21.73	21.45	21.15	20.83	20.04	19.39	19.48	19.65	20.29	20.67
27	21.81	22.00	21.66	21.46	21.12	20.74	20.01	19.39	19.53	19.67	20.30	20.71
28	21.80	21.96	21.60	21.43	21.07	20.73	20.03	19.38	19.50	19.73	20.33	20.73
29	21.82	21.93	21.61	21.42	---	20.74	20.03	19.34	19.51	19.76	20.34	20.73
30	21.84	21.94	21.63	21.40	---	20.71	19.96	19.30	19.52	19.76	20.36	20.74
31	21.85	---	21.60	21.42	---	20.64	---	19.30	---	19.77	20.38	---
MAX	21.85	22.00	22.06	21.62	21.39	21.11	20.61	19.93	19.53	19.77	20.38	20.74

WTR YR 1983 MEAN 20.71 HIGH 19.27 LOW 22.06

PREBLE COUNTY

394438084335900. Local number, PR-2.
LOCATION.--Lat 39°44'38", long 84°33'59", Hydrologic Unit 05080002, Stover Rd 4 mi (6.4) east of Eaton.
Owner: Eaton Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 78.5 ft (23.927 m), cased.
DATUM.--Altitude of land-surface datum is 900 ft (274 m), from topographic map. Measuring point: Floor of instrument shelter 1.50 ft (0.457 m) 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 (4.657 m) Aug. 26, 1983; minimum daily low, 7.94 ft (2.420 m) May 4, 1975.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 15.28 ft (4.657 m) Aug. 26; minimum daily low, 8.77 ft (2.673 m) May 15.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.96	13.34	13.08	11.08	11.40	11.50	11.76	10.58	9.33	11.65	13.55	14.32
2	12.97	13.35	13.10	11.04	11.31	11.73	11.60	10.31	9.48	11.81	13.56	14.09
3	12.96	13.29	13.00	11.00	11.42	11.83	11.40	9.95	9.61	11.78	13.56	13.98
4	12.91	13.46	12.91	10.97	11.50	11.97	11.45	9.61	9.74	11.73	13.62	14.30
5	13.03	13.50	12.65	10.89	11.49	11.97	11.45	9.39	9.86	11.97	13.63	14.04
6	13.08	13.54	12.61	10.82	11.42	11.96	11.36	9.23	9.85	12.00	13.79	14.04
7	13.15	13.47	12.67	11.05	11.36	11.85	11.17	9.10	9.92	12.08	13.81	14.19
8	13.10	13.35	12.89	11.18	11.39	11.87	11.17	8.93	10.34	12.28	14.00	14.20
9	13.06	13.39	12.93	11.23	11.38	11.86	11.10	8.96	10.74	12.09	13.98	14.25
10	13.00	13.58	12.89	11.19	11.44	11.82	11.06	8.98	10.95	12.08	14.35	14.19
11	13.07	13.61	12.86	11.28	11.45	11.85	10.99	9.00	11.04	12.24	14.00	14.11
12	13.02	13.68	12.89	11.40	11.55	11.87	11.02	8.89	11.04	12.24	13.78	14.10
13	13.14	13.80	12.89	11.44	11.50	11.78	11.11	8.97	11.15	12.24	14.10	13.94
14	13.18	13.78	12.94	11.44	11.41	11.68	10.92	8.94	11.17	12.67	13.88	14.01
15	13.22	13.81	12.89	11.52	11.42	11.70	10.92	8.77	11.17	12.62	13.83	13.96
16	13.35	13.81	12.73	11.50	11.36	11.67	10.85	9.13	11.05	12.48	14.24	13.89
17	13.40	13.78	12.76	11.56	11.46	11.67	10.70	9.14	11.13	12.47	14.42	14.09
18	13.30	13.78	12.61	11.64	11.25	11.84	10.39	9.34	11.09	12.29	14.50	13.92
19	13.38	13.70	12.39	11.72	11.17	11.66	10.32	9.57	11.05	12.23	14.63	13.99
20	13.34	13.65	12.35	11.61	11.36	11.70	10.40	9.41	11.09	12.67	14.63	14.11
21	13.36	13.60	12.38	11.55	11.41	11.65	10.48	9.40	11.42	12.79	14.72	13.91
22	13.40	13.49	12.38	11.50	11.55	11.91	10.65	9.25	11.26	12.80	14.72	13.90
23	13.39	13.44	12.11	11.49	11.48	12.04	10.45	9.09	11.45	13.02	14.88	14.03
24	13.40	13.57	12.23	11.42	11.51	12.08	10.39	9.14	11.38	12.92	14.80	13.70
25	13.43	13.41	11.99	11.48	11.54	12.01	10.47	9.14	11.47	12.82	15.01	13.55
26	13.47	13.35	11.96	11.49	11.51	12.03	10.67	9.44	11.61	12.81	15.28	13.79
27	13.47	13.34	11.83	11.53	11.45	11.87	10.79	9.38	11.55	12.87	15.27	13.48
28	13.39	13.19	11.46	11.49	11.52	11.67	10.80	9.31	11.34	12.90	15.03	13.98
29	13.39	12.97	11.40	11.55	---	11.77	10.88	9.13	11.69	13.10	14.86	14.02
30	13.40	13.05	11.40	11.36	---	11.80	10.80	8.97	11.70	13.47	14.79	13.91
31	13.38	---	11.16	11.43	---	11.72	---	9.40	---	13.55	14.55	---
MAX	13.47	13.81	13.10	11.72	11.55	12.08	11.76	10.58	11.70	13.55	15.28	14.32

WTR YR 1983 MEAN 12.14 HIGH 8.77 LOW 15.28

RICHLAND COUNTY

404625082305100. Local number, R-4.
LOCATION.--Lat 40°46'25", long 82°30'51", Hydrologic Unit 05040002, at Ohio Brass Plant in Mansfield.
Owner: Ohio Brass Company
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in (0.36 m), depth 127 ft (38.7 m), cased.
DATUM.--Altitude of land-surface datum is 1150 ft (351 m) from topographic map. Measuring point: Top of platform 5.00 ft (1.524 m) 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 (18.318 m) Oct. 12, 13, 19, 20, 1962; minimum daily low, 6.43 ft (1.960 m) May 31, 1983.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 8.38 ft (2.554 m) Nov. 11; minimum daily low, 6.43 ft (1.960 m) May 31.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.10	8.23	7.74	6.92	7.34	7.15	7.34	6.96	6.43	7.08	6.98	7.51
2	8.12	8.17	7.76	6.87	7.34	7.12	7.31	6.91	6.49	7.08	7.03	7.54
3	8.11	8.14	7.77	6.83	7.24	7.15	7.19	6.83	6.52	7.08	7.08	7.55
4	8.06	8.15	7.77	6.90	7.21	7.16	7.05	6.75	6.52	7.05	7.13	7.55
5	8.02	8.18	7.73	6.95	7.26	7.17	7.05	6.71	6.51	6.99	7.16	7.55
6	8.05	8.20	7.62	6.97	7.26	7.17	7.07	6.71	6.51	6.95	7.18	7.53
7	8.06	8.20	7.62	6.98	7.23	7.15	7.09	6.71	6.53	6.98	7.18	7.51
8	8.06	8.18	7.70	7.04	7.23	7.09	7.12	6.69	6.57	6.99	7.18	7.55
9	8.06	8.20	7.78	7.06	7.26	7.05	7.13	6.67	6.63	6.99	7.20	7.58
10	8.05	8.32	7.78	7.06	7.28	7.08	7.09	6.69	6.69	6.96	7.23	7.59
11	7.99	8.38	7.78	7.04	7.31	7.14	7.00	6.71	6.72	6.90	7.24	7.59
12	7.99	8.38	7.77	7.06	7.34	7.17	6.94	6.72	6.73	6.87	7.25	7.55
13	8.02	8.31	7.74	7.13	7.36	7.18	6.94	6.72	6.74	6.90	7.28	7.56
14	8.03	8.29	7.74	7.15	7.36	7.18	6.94	6.72	6.78	6.92	7.29	7.59
15	8.03	8.22	7.74	7.16	7.30	7.19	6.90	6.68	6.81	6.94	7.30	7.63
16	8.03	8.19	7.73	7.17	7.27	7.23	6.90	6.61	6.83	6.95	7.31	7.63
17	8.05	8.18	7.71	7.17	7.24	7.27	6.90	6.59	6.86	6.95	7.32	7.63
18	8.06	8.20	7.71	7.22	7.23	7.27	6.84	6.62	6.87	6.92	7.32	7.62
19	8.10	8.20	7.64	7.31	7.23	7.27	6.81	6.62	6.87	6.90	7.34	7.58
20	8.15	8.20	7.50	7.40	7.22	7.24	6.82	6.61	6.88	6.89	7.36	7.57
21	8.20	8.19	7.43	7.43	7.20	7.23	6.83	6.61	6.92	6.89	7.36	7.57
22	8.25	8.15	7.43	7.43	7.18	7.20	6.85	6.60	6.95	6.88	7.36	7.57
23	8.28	8.09	7.43	7.41	7.14	7.27	6.85	6.53	6.99	6.87	7.39	7.61
24	8.29	8.04	7.42	7.33	7.10	7.32	6.84	6.51	7.01	6.84	7.43	7.64
25	8.27	8.06	7.38	7.31	7.12	7.37	6.80	6.52	7.02	6.81	7.46	7.64
26	8.25	8.06	7.30	7.35	7.18	7.41	6.83	6.54	7.02	6.83	7.48	7.63
27	8.27	8.02	7.24	7.39	7.19	7.41	6.89	6.56	7.02	6.85	7.49	7.61
28	8.29	7.98	7.15	7.42	7.19	7.33	6.93	6.57	7.03	6.87	7.49	7.64
29	8.29	7.84	7.01	7.42	---	7.31	6.97	6.56	7.05	6.90	7.47	7.68
30	8.29	7.76	6.95	7.40	---	7.34	6.98	6.50	7.07	6.94	7.47	7.70
31	8.29	---	6.95	7.33	---	7.35	---	6.43	---	6.96	7.48	---
MAX	8.29	8.38	7.78	7.43	7.36	7.41	7.34	6.96	7.07	7.08	7.49	7.70

WTR YR 1983 MEAN 7.31 HIGH 6.43 LOW 8.38

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 (1.6 km) 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 (0.15 m), depth 67 ft (20.4 m), cased.
DATUM.--Altitude of land-surface datum is 740 ft (226 m) from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) 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, 42.37 ft (12.914 m) Sept. 16, 1983; minimum daily low, 20.93 ft (6.379 m) Feb. 28, 1971.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 42.37 ft (12.914 m) Sept. 16; minimum daily low, 31.49 ft (9.598 m) May 27.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.74	39.83	39.54	38.41	39.15	38.54	38.67	36.56	32.36	36.89	39.58	40.76
2	40.00	39.94	39.48	38.27	38.96	38.54	38.54	36.37	32.64	37.09	39.58	40.99
3	40.00	39.92	39.51	38.34	39.02	38.66	38.56	36.31	32.85	37.28	39.48	41.28
4	39.85	39.56	39.37	38.46	39.08	38.94	38.49	36.34	32.90	37.25	39.70	41.43
5	40.05	39.58	39.21	38.41	38.89	38.99	38.56	35.93	33.01	37.09	39.67	41.37
6	40.13	39.60	39.13	38.50	38.96	38.99	38.54	35.54	33.20	37.09	39.81	41.60
7	39.96	39.49	39.35	38.73	38.99	39.16	38.41	35.05	33.14	37.06	39.97	41.59
8	40.03	39.51	39.38	38.75	39.02	39.20	38.50	34.64	33.65	37.13	40.18	41.76
9	40.02	39.78	39.44	38.80	39.00	39.15	38.47	34.29	33.91	37.41	40.25	41.74
10	40.02	40.18	39.41	38.77	39.24	39.13	38.54	34.00	34.12	37.87	40.35	41.62
11	40.23	40.29	39.62	38.96	39.08	39.19	38.25	33.70	34.52	38.25	40.37	41.91
12	40.27	40.19	39.72	38.98	39.23	39.13	38.15	33.38	34.83	38.32	40.25	42.07
13	40.06	40.36	39.91	39.14	39.27	39.26	37.99	33.43	35.19	38.38	40.17	42.21
14	40.06	40.50	39.99	39.07	39.16	39.31	37.61	33.02	35.36	39.07	40.10	42.33
15	40.33	40.46	39.98	39.16	39.17	39.23	37.54	32.93	35.49	39.27	39.98	42.36
16	40.15	40.73	40.16	39.39	38.84	39.49	37.38	32.67	35.59	39.50	40.09	42.37
17	39.94	40.89	39.64	39.41	38.80	39.58	37.32	32.38	35.59	39.78	40.24	42.24
18	40.10	40.95	39.93	39.69	38.77	39.32	37.15	32.06	35.75	39.89	40.23	42.12
19	40.13	40.95	39.66	39.58	38.77	39.31	37.16	31.96	35.74	39.78	40.33	42.05
20	40.00	40.93	39.37	39.54	38.96	39.41	36.99	31.94	36.17	39.44	40.60	41.93
21	39.98	40.85	39.36	39.51	39.14	39.38	36.63	31.95	36.18	39.32	40.68	41.55
22	39.93	40.91	39.27	39.60	39.00	39.34	36.59	32.29	35.97	39.24	40.80	41.24
23	39.87	40.80	39.14	39.80	39.09	39.19	36.74	32.24	36.11	39.41	40.82	40.92
24	40.01	40.42	39.04	39.64	38.65	39.06	36.71	32.12	36.20	39.44	40.75	40.64
25	39.91	40.40	39.13	39.59	38.94	39.13	36.62	32.06	36.57	39.09	40.86	40.39
26	39.84	40.29	38.99	39.56	38.54	39.04	36.53	31.72	36.57	39.08	40.90	40.39
27	39.79	40.17	39.05	39.28	38.68	38.82	36.57	31.49	36.81	39.08	41.18	40.30
28	39.79	40.09	39.05	39.14	38.48	38.81	36.72	31.58	36.76	38.96	41.18	40.17
29	39.83	39.92	38.96	39.12	---	38.74	36.67	31.53	36.74	39.03	40.91	40.13
30	39.71	39.72	39.03	39.27	---	38.82	36.44	31.97	36.88	39.18	40.96	40.07
31	39.62	---	38.57	39.18	---	38.81	---	32.26	---	39.54	41.03	---
MAX	40.33	40.95	40.16	39.80	39.27	39.58	38.67	36.56	36.88	39.89	41.18	42.37

WTR YR 1983 MEAN 38.58 HIGH 31.49 LOW 42.37

ROSS COUNTY--Continued.

391913082580500. Local number, RO-8.
LOCATION.--Lat 39°19'13", long 82°58'05", Hydrologic Unit 05060003, Mead Paper wood yard in Chillicothe.
Owner: Mead Paper Corp.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 95 ft (30.0 m), cased.
DATUM.--Altitude of land-surface datum is 631.30 ft (186.93 m) Measuring point: Floor of instrument shelter 3.30 ft (1.006 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--May 1983 to September 1983.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 28.18 ft (8.589 m) Sept. 30, 1983; minimum daily low, 23.05 ft (7.026 m) May 26, 1983.
EXTREMES FOR PERIOD MAY 1983 TO SEPTEMBER 1983.--Maximum daily low, 28.18 ft (8.589 m) Sept. 30; minimum daily low, 23.05 ft (7.026 m) May 25.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	24.38	26.35	27.31	27.39
2								---	24.46	26.42	27.39	27.37
3								---	24.52	26.47	27.44	27.34
4								---	24.52	26.51	27.49	27.35
5								---	24.46	26.56	27.55	27.36
6								---	24.57	26.64	27.60	27.42
7								---	24.61	26.69	27.60	27.49
8								---	24.66	26.76	27.61	27.50
9								---	24.74	26.83	27.67	27.52
10								---	24.84	26.91	27.69	27.57
11								---	24.92	27.03	27.69	27.63
12								---	25.00	27.10	27.69	27.63
13								---	25.09	27.16	27.69	27.64
14								---	25.17	27.19	27.67	27.66
15								---	25.27	27.21	27.77	27.66
16								---	25.41	27.29	27.86	27.65
17								24.86	25.53	27.34	27.92	27.71
18								25.00	25.61	27.34	27.90	27.76
19								25.04	25.67	27.31	27.79	27.83
20								25.06	25.75	27.28	27.69	27.88
21								25.02	25.78	27.25	27.63	27.91
22								24.95	25.79	27.28	27.60	27.95
23								24.29	25.83	27.36	27.57	27.98
24								23.65	25.87	27.33	27.55	27.98
25								23.05	25.94	27.33	27.54	27.97
26								23.10	26.02	27.34	27.51	28.00
27								23.37	26.08	27.33	27.48	28.04
28								23.61	26.17	27.37	27.46	28.04
29								23.83	26.22	27.40	27.43	28.13
30								24.07	26.27	27.38	27.42	28.18
31								24.27	---	27.33	27.40	---
MAX								25.06	26.27	27.40	27.92	28.18

WTR YR 1983 MEAN 26.63 HIGH 23.05 LOW 28.18

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

SHELBY COUNTY

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, diamter 8 in (0.2 m), depth 280 ft (85.3 m) cased to 136 ft (41.5 m).
DATUM.--Altitude of land-surface datum is 1,033.72 ft (315.078 m). Measuring point: Top of platform 4.50 ft (1.372 m) 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 (28.709 m) Oct. 26, 1982; minimum daily low, 63.45 ft (19.340 m) Jan. 2, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum daily low 94.19 ft (28.709 m) Oct. 26; minimum daily low, 73.29 ft (20.339 m) May 28.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90.70	92.31	92.96	90.45	88.64	91.62	81.71	84.69	92.16	91.87	91.85	93.00
2	88.89	93.38	89.51	85.82	84.63	91.38	85.86	92.04	92.40	78.38	92.37	93.01
3	86.12	93.31	88.49	93.15	86.95	90.84	82.63	92.33	91.77	77.22	92.43	87.41
4	92.85	93.71	92.80	91.88	86.61	92.23	89.39	92.76	91.67	85.26	92.66	82.59
5	92.76	93.56	85.48	89.17	82.31	90.99	89.07	92.75	85.98	92.29	92.90	84.69
6	93.72	88.78	92.35	91.90	79.86	81.67	88.62	92.91	90.48	93.02	91.83	91.57
7	93.20	83.51	93.32	91.86	90.43	91.34	88.07	91.10	90.46	93.08	87.79	91.95
8	92.59	93.06	91.99	86.83	88.88	92.13	89.77	85.33	91.91	93.57	91.63	92.51
9	89.15	93.60	93.88	81.43	91.09	92.05	88.55	92.85	92.37	91.13	92.43	92.81
10	87.70	92.58	93.20	91.11	89.66	91.75	84.92	92.04	92.98	88.18	92.21	91.94
11	92.58	90.97	93.24	92.41	89.22	91.87	89.93	92.91	92.07	92.94	91.85	88.48
12	94.03	87.17	86.84	92.67	87.21	91.05	90.04	92.66	86.56	92.50	91.44	92.13
13	93.73	93.87	93.45	90.61	83.32	82.52	89.88	92.55	92.80	93.07	90.07	93.10
14	89.86	88.87	91.43	92.93	91.98	92.01	89.74	88.76	92.11	92.54	85.44	92.25
15	91.90	91.49	92.95	87.88	91.84	92.22	90.26	86.25	92.73	90.64	91.84	92.29
16	89.75	87.42	92.72	83.04	88.40	88.28	88.37	90.82	92.85	92.67	92.46	91.45
17	87.95	89.67	94.07	92.15	87.56	88.59	85.15	92.52	92.50	88.44	92.32	91.54
18	92.98	92.84	92.67	92.59	88.68	90.69	89.69	92.77	92.51	92.64	92.19	88.11
19	90.86	93.07	87.24	91.18	89.69	91.03	89.57	92.26	87.66	92.77	92.43	93.00
20	92.15	92.43	93.74	92.73	83.20	81.21	89.66	92.27	90.15	93.04	91.44	88.52
21	93.49	83.75	92.85	91.60	87.84	88.83	89.82	86.37	92.08	92.62	88.12	89.67
22	90.31	87.74	93.45	83.67	90.90	89.63	89.20	88.84	92.76	92.91	92.71	90.60
23	89.69	89.57	91.92	81.90	87.67	89.23	88.01	91.50	92.85	91.44	92.83	88.29
24	88.06	93.07	86.22	90.28	90.09	89.53	83.01	92.35	92.51	87.23	92.87	92.04
25	90.23	87.00	81.63	88.32	90.73	89.91	89.07	92.22	92.36	92.89	91.42	89.50
26	94.19	84.62	86.73	87.89	88.69	87.06	89.17	92.96	87.08	93.29	91.27	91.91
27	92.90	74.09	92.31	88.08	85.86	79.80	89.55	91.35	93.05	92.78	91.52	91.34
28	90.11	84.19	92.97	88.26	92.59	88.75	89.73	73.29	93.90	92.85	88.46	92.48
29	87.88	90.77	91.88	83.49	---	89.47	90.77	79.14	93.33	92.73	91.32	92.37
30	86.72	91.18	89.95	79.57	---	89.46	88.38	85.61	93.45	91.48	92.65	92.24
31	82.14	---	84.73	88.89	---	89.84	---	91.96	---	87.25	91.62	---
MAX	94.19	93.87	94.07	93.15	92.59	92.23	90.77	92.96	93.90	93.57	92.90	93.10

WTR YR 1983 MEAN 90.02 HIGH 73.29 LOW 94.19

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 (0.3 m), depth 132 ft (40.2 m), cased.
DATUM.--Altitude of land-surface datum is 1060 ft (323 m), from topographic map. Measuring point: Floor of instrument shelter 1.00 ft (0.305 m) 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 (16.459 m) Feb. 10, 1956; minimum daily low, 26.13 ft (7.964 m) May 18, 1964.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 40.44 ft (12.326m) Nov. 16-18; minimum daily low, 33.62 ft (10.247 m) June 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.34	39.67	40.03	38.25	37.91	38.16	37.78	36.33	34.36	35.44	36.51	36.49
2	39.39	39.89	39.87	37.98	37.63	38.19	37.55	36.33	34.53	35.38	36.18	36.34
3	39.31	40.03	39.86	38.03	37.15	38.33	37.36	36.41	34.59	35.22	35.87	36.36
4	39.71	39.93	40.11	38.12	37.06	37.94	37.51	36.32	33.62	35.23	35.78	36.81
5	39.43	40.11	40.27	38.30	37.14	37.98	37.58	35.95	34.28	35.36	35.75	36.67
6	39.06	39.91	40.20	38.47	37.04	38.03	37.81	35.97	34.45	35.33	35.73	36.86
7	39.41	40.18	40.29	38.54	37.08	38.02	37.71	35.51	34.04	35.38	35.72	36.82
8	39.45	40.21	39.97	37.99	37.20	38.22	37.86	35.34	33.75	35.42	35.83	36.58
9	39.46	40.22	39.71	37.84	37.35	37.96	37.86	35.31	34.26	35.43	36.16	36.57
10	39.18	40.13	39.68	37.74	37.31	37.94	37.71	35.08	34.25	35.29	36.11	36.48
11	39.59	40.20	39.86	37.72	37.36	37.99	37.45	35.22	34.21	35.62	36.25	36.66
12	39.83	40.27	39.41	37.84	37.33	37.89	37.60	35.20	34.28	35.82	36.19	36.49
13	39.60	40.36	39.72	38.15	37.22	37.83	37.58	35.21	34.71	36.13	36.25	36.81
14	39.90	40.39	39.55	37.83	37.46	38.09	37.64	35.06	34.88	36.40	36.08	36.54
15	39.63	40.43	40.00	37.74	37.45	38.23	37.67	35.16	34.46	36.25	36.32	36.71
16	39.70	40.44	40.17	37.63	37.40	38.32	37.55	34.50	34.77	36.25	36.50	36.85
17	39.30	40.44	40.23	37.65	37.68	38.12	36.95	34.95	34.81	36.24	36.33	36.63
18	39.58	40.44	39.97	37.69	37.67	38.19	36.33	34.69	34.53	36.46	36.44	36.80
19	39.58	40.41	39.66	37.81	37.63	38.29	36.83	34.62	34.83	36.50	36.42	36.91
20	39.67	39.96	39.58	37.77	37.46	37.73	36.92	34.81	35.11	36.94	36.37	36.78
21	39.72	39.91	39.62	37.70	37.51	37.32	37.08	34.74	35.86	36.89	36.56	36.99
22	39.74	39.90	39.65	37.45	37.87	37.89	37.17	34.74	35.90	36.58	36.71	37.01
23	39.12	40.29	39.56	37.57	38.07	37.72	37.12	34.91	35.83	36.37	36.97	37.22
24	39.40	40.17	39.45	37.69	38.22	37.71	37.07	34.74	35.87	36.26	36.84	37.33
25	39.61	40.00	39.09	37.90	38.19	37.86	36.96	34.51	35.33	36.26	36.88	36.89
26	40.09	40.24	38.75	37.80	38.04	37.85	36.53	34.22	35.24	36.41	36.55	37.36
27	40.01	39.94	38.81	38.09	38.08	37.62	36.77	34.57	35.59	36.38	36.82	37.03
28	39.69	39.90	38.83	37.82	38.02	37.78	36.75	33.98	35.43	36.34	36.55	37.38
29	39.53	40.05	38.75	37.65	---	37.86	36.78	33.77	35.45	36.50	36.62	37.45
30	39.84	40.29	38.65	37.67	---	37.91	36.45	---	35.29	36.44	36.78	37.46
31	39.56	---	38.52	37.81	---	37.60	---	---	---	36.16	36.64	---
MAX	40.09	40.44	40.29	38.54	38.22	38.33	37.86	36.41	35.90	36.94	36.97	37.46

WTR YR 1983 MEAN 37.44 HIGH 33.62 LOW 40.44

STARK COUNTY--Continued

405051081244200. Local number, ST-28.
LOCATION.--Lat 40°50'51", long 81°24'42", Hydrologic Unit 05040001, Salway St., northwest of Canton.
Owner: North Canton Water Dept.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.2 m) depth 70 ft (21.3 m), cased.
DATUM.--Altitude of land-surface datum is 1060 ft (323 m), from topographic map. Measuring point: Floor of instrument shelter 1.50 ft (0.457 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--September 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.00 ft (4.879 m) July 27, 28, 1978; minimum daily low, 9.37 ft (2.856 m) July 17, 1976.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 15.37 ft (4.685 m) Oct. 29; minimum recorded daily low, 10.03 ft (3.057 m) Aug. 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.14	15.23	11.26	10.43	11.69	12.61	13.06	12.16	10.90	10.56	10.28	10.23
2	---	15.15	11.11	10.45	11.73	12.62	13.06	12.13	10.90	10.54	10.25	10.24
3	---	15.06	10.94	10.47	11.77	12.64	13.06	12.00	10.89	10.52	10.21	10.26
4	---	14.98	10.77	10.48	11.83	12.68	13.05	12.00	10.89	10.51	10.17	10.26
5	---	14.88	10.63	10.51	11.86	12.71	13.05	11.93	10.89	10.50	10.10	10.26
6	---	14.76	10.48	10.53	11.89	12.75	13.05	11.85	10.89	10.48	10.05	10.28
7	---	14.63	10.37	10.57	11.93	12.79	13.05	11.75	10.90	10.47	10.03	10.28
8	---	14.50	10.28	10.62	11.96	12.82	13.05	11.69	10.90	10.47	---	10.29
9	---	14.38	10.22	10.66	11.99	12.86	13.05	11.63	10.90	10.47	---	10.28
10	---	14.25	10.18	10.69	12.04	12.89	13.04	11.57	10.90	10.48	---	10.28
11	---	14.13	10.16	10.73	12.08	12.92	13.03	11.50	10.90	10.48	---	10.29
12	---	13.99	10.16	10.77	12.11	12.95	13.01	11.44	10.91	10.50	---	10.29
13	---	13.87	10.16	10.81	12.16	12.98	12.98	11.38	10.92	10.50	---	10.30
14	---	13.71	10.17	10.86	12.17	13.01	12.94	11.35	10.92	10.50	---	10.32
15	---	13.58	10.17	10.91	12.22	13.04	12.93	11.31	10.93	10.49	---	10.35
16	---	13.44	10.18	10.95	12.25	13.06	12.87	11.28	10.94	10.48	---	10.37
17	---	13.30	10.19	11.00	12.28	13.07	12.79	11.24	10.94	10.48	---	10.39
18	---	13.17	10.21	11.04	12.33	13.09	12.73	11.22	10.94	10.47	---	10.42
19	---	13.01	10.23	11.10	12.37	13.11	12.68	11.20	10.94	10.47	---	10.44
20	---	12.88	10.24	11.14	12.40	13.12	12.62	11.17	10.94	10.46	---	10.46
21	---	12.73	10.24	11.19	12.43	13.12	12.56	11.15	10.91	10.46	---	10.46
22	---	12.59	10.28	11.24	12.47	13.13	12.50	11.13	10.87	10.47	---	10.48
23	---	12.45	10.31	11.30	12.50	13.14	12.43	11.10	10.80	10.47	---	10.51
24	---	12.31	10.36	11.34	12.52	13.14	12.38	11.08	10.72	10.45	---	10.54
25	---	12.17	10.36	11.39	12.54	13.13	12.36	11.04	10.68	10.43	---	10.57
26	---	12.01	10.37	11.43	12.56	13.13	12.32	10.99	10.67	10.38	---	10.61
27	---	11.87	10.38	11.47	12.58	13.12	12.28	10.97	10.64	10.37	---	10.62
28	---	11.72	10.40	11.51	12.60	13.09	12.25	10.95	10.62	10.33	---	10.64
29	15.37	11.57	10.40	11.56	---	13.08	12.21	10.94	10.60	10.33	---	10.67
30	15.35	11.42	10.41	11.60	---	13.08	12.18	10.92	10.56	10.32	---	10.71
31	15.29	---	10.42	11.64	---	13.07	---	10.91	---	10.30	---	---
MAX	15.37	15.23	11.26	11.64	12.60	13.14	13.06	12.16	10.94	10.56	10.28	10.71

WTR YR 1983 MEAN 11.59 HIGH 10.03 LOW 15.37

STARK COUNTY--Continued

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 (0.2 m), depth 55 ft (16.8 m), cased.
DATUM.--Altitude of land-surface datum is 1060 ft (323 m), from topographic map. Measuring point: Floor of instrument shelter 2.50 ft (0.762 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--April 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 40.80 ft (12.436 m) Aug. 29, 1982; minimum daily low, 7.10 ft (2.164 m) June 15, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 35.75 ft (10.897 m) Mar. 22; minimum daily low, 11.80 ft (3.597 m) Aug. 12.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.85	17.35	13.45	25.80	26.55	15.05	26.10	25.85	30.40	33.80	12.95	30.90
2	20.30	16.25	13.40	26.60	29.15	14.35	26.90	27.05	29.25	25.00	12.50	31.10
3	19.85	16.00	13.35	28.05	30.70	14.20	27.30	27.65	22.70	22.45	12.25	21.50
4	19.50	15.80	13.25	28.95	31.20	21.85	28.35	27.85	19.65	20.85	12.35	19.50
5	19.15	15.65	13.25	29.70	30.65	27.20	29.65	26.55	17.80	19.80	12.05	18.25
6	18.85	15.55	13.30	30.20	30.45	28.20	30.20	27.75	16.55	18.95	12.70	17.40
7	18.55	15.45	13.30	30.15	31.55	29.55	30.35	28.00	15.80	18.25	11.95	16.80
8	18.35	15.30	13.25	29.10	31.80	30.90	30.70	27.70	15.20	17.65	11.85	16.30
9	23.30	15.25	13.20	29.85	31.95	31.40	30.75	28.05	14.70	17.15	11.85	20.70
10	25.70	15.20	13.05	30.70	32.40	32.40	30.45	28.60	21.30	16.65	11.90	25.30
11	26.35	15.05	13.05	30.80	32.85	33.00	30.85	28.70	26.10	16.25	11.90	27.55
12	25.70	15.00	13.05	31.25	32.30	32.85	31.35	28.75	26.80	15.90	11.80	28.05
13	21.00	14.95	13.05	31.70	31.80	32.05	31.45	28.85	28.10	15.65	19.95	29.45
14	19.05	14.85	13.00	31.90	31.20	33.05	31.45	20.45	29.00	15.40	15.50	30.65
15	18.35	14.75	13.00	31.40	24.75	33.75	30.25	17.80	30.00	15.15	13.25	31.20
16	17.95	14.70	12.95	30.65	28.35	34.05	24.05	16.50	30.75	15.00	12.70	22.40
17	17.65	14.65	12.90	32.45	22.30	34.55	20.75	15.55	31.70	14.90	12.50	20.15
18	17.35	14.60	12.80	33.15	20.20	35.20	18.85	14.85	31.75	14.65	12.35	18.70
19	17.20	14.60	12.65	33.55	19.00	34.85	17.60	14.25	31.80	14.50	12.85	17.80
20	23.75	14.50	12.65	33.75	18.15	35.20	16.70	21.35	31.15	14.35	12.40	17.25
21	19.40	14.45	21.30	34.00	17.50	35.50	16.05	21.60	30.95	14.25	12.30	16.70
22	17.65	14.35	21.95	33.35	16.95	35.75	15.45	23.80	31.80	14.15	12.25	16.35
23	17.15	14.25	15.05	28.35	16.40	28.40	14.95	24.90	32.15	20.25	12.85	20.50
24	16.80	14.30	13.85	25.95	16.05	24.65	14.55	25.30	32.75	15.10	20.45	22.85
25	16.60	14.20	13.25	23.25	15.70	22.45	14.25	26.75	33.35	13.90	26.60	16.85
26	16.45	14.00	12.95	20.00	15.55	21.10	13.95	28.15	33.75	13.45	27.30	16.00
27	16.35	13.90	12.65	19.00	15.15	20.25	13.75	28.75	33.95	19.30	27.95	15.65
28	16.25	13.70	12.75	18.25	14.85	19.25	13.50	29.10	34.25	14.35	---	15.40
29	16.10	13.50	12.25	25.55	---	18.50	22.80	28.60	34.00	13.65	---	15.20
30	16.00	13.45	20.75	---	---	18.05	25.25	28.25	34.15	13.30	---	15.00
31	22.20	---	24.50	18.15	---	23.85	---	---	---	13.20	30.95	---
MAX	26.35	17.35	24.50	34.00	32.85	35.75	31.45	29.10	34.25	33.80	30.95	31.20

WTR YR 1983 MEAN 21.57 HIGH 11.80 LOW 35.75

SUMMIT COUNTY

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 (0.15 m), depth 60 ft (18.3 m), cased.
DATUM.--Altitude of land-surface datum is 970 ft (296 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) 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 (12.984 m) Oct. 21, 1966; minimum daily low, 3.45 ft (1.052 m) Jan. 23, 1959.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 22.76 ft (6.937 m) Oct. 1; minium daily low, 9.10 ft (2.774 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.76	21.88	17.48	13.80	12.86	12.19	10.51	9.25	11.56	15.15	18.06	19.81
2	22.73	21.71	17.33	13.74	12.85	12.15	10.49	9.14	11.63	15.22	18.15	19.85
3	22.68	21.44	17.18	13.70	12.82	12.11	10.47	9.10	11.70	15.28	18.24	19.86
4	22.65	21.17	17.04	13.67	12.74	12.07	10.46	9.13	11.76	15.34	18.34	19.86
5	22.62	20.93	16.92	13.65	12.66	12.03	10.47	9.21	11.83	15.42	18.42	19.87
6	22.59	20.69	16.81	13.62	12.60	11.98	10.47	9.34	11.91	15.50	18.50	19.87
7	22.57	20.48	16.69	13.59	12.55	11.91	10.47	9.48	11.98	15.61	18.58	19.87
8	22.55	20.28	16.58	13.56	12.51	11.84	10.46	9.64	12.07	15.70	18.66	19.83
9	22.53	20.10	16.47	13.54	12.49	11.76	10.40	9.81	12.15	15.80	18.74	19.74
10	22.51	19.92	16.38	13.52	12.48	11.65	10.32	9.98	12.24	15.89	18.81	19.66
11	22.47	19.75	16.28	13.48	12.47	11.56	10.18	10.16	12.33	15.97	18.87	19.54
12	22.45	19.53	16.21	13.42	12.47	11.44	10.07	10.35	12.44	16.07	18.93	19.39
13	22.43	19.30	16.14	13.35	12.48	11.33	10.00	10.55	12.56	16.18	18.97	19.33
14	22.42	19.08	16.08	13.27	12.48	11.23	9.94	10.68	12.71	16.28	18.99	19.29
15	22.41	18.85	16.02	13.19	12.49	11.11	9.88	10.78	12.86	16.39	19.00	19.28
16	22.39	18.68	15.97	13.13	12.50	11.03	9.77	10.85	13.00	16.50	19.03	19.28
17	22.37	18.54	15.88	13.07	12.51	10.95	9.67	10.93	13.15	16.60	19.09	19.30
18	22.35	18.44	15.75	13.07	12.51	10.88	9.60	11.02	13.30	16.70	19.15	19.32
19	22.34	18.35	15.59	13.07	12.51	10.82	9.54	11.08	13.46	16.82	19.20	19.34
20	22.34	18.28	15.44	13.06	12.49	10.78	9.51	11.16	13.62	16.93	19.22	19.37
21	22.33	18.21	15.29	13.06	12.48	10.73	9.49	11.25	13.76	17.04	19.23	19.39
22	22.34	18.16	15.17	13.05	12.45	10.68	9.48	11.31	13.91	17.14	19.27	19.41
23	22.34	18.10	15.06	13.03	12.40	10.65	9.49	11.31	14.08	17.22	19.31	19.45
24	22.32	18.04	14.97	13.00	12.36	10.64	9.49	11.31	14.24	17.30	19.35	19.48
25	22.27	17.98	14.86	12.96	12.31	10.63	9.50	11.34	14.39	17.39	19.40	19.51
26	22.22	17.90	14.72	12.93	12.28	10.65	9.50	11.37	14.55	17.48	19.46	19.53
27	22.17	17.84	14.57	12.91	12.25	10.65	9.47	11.41	14.70	17.57	19.53	19.55
28	22.13	17.77	14.39	12.89	12.22	10.65	9.40	11.45	14.86	17.67	19.58	19.57
29	22.09	17.69	14.18	12.88	---	10.61	9.35	11.47	14.96	17.77	19.64	19.59
30	22.05	17.59	14.01	12.87	---	10.58	9.34	11.47	15.06	17.87	19.70	19.61
31	21.99	---	13.89	12.87	---	10.54	---	11.48	---	17.96	19.76	---
MAX	22.76	21.88	17.48	13.80	12.86	12.19	10.51	11.48	15.06	17.96	19.76	19.87

WTR YR 1983 MEAN 15.27 HIGH 9.10 LOW 22.76

TRUMBULL 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 (0.3 m), depth 125 ft (38.1 m), cased.
DATUM.--Altitude of land-surface datum is 890 ft (271 m), from topographic map. Measuring point: Floor of instrument shelter 2.50 ft (0.762 m) 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 (18.379 m) July 2, 1975; minimum daily low, 19.35 ft (5.898 m) Feb. 21, 1982.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 44.77 ft (13.646 m) July 16; minimum daily low, 24.55 ft (7.483 m) Nov. 7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.30	25.58	29.31	28.15	33.60	35.32	33.78	39.55	34.89	41.50	30.17	32.79
2	26.05	25.97	30.12	28.11	33.43	35.78	33.59	40.21	34.85	41.37	30.48	32.49
3	25.49	27.58	30.99	28.37	33.31	35.85	33.40	41.19	34.74	40.87	30.23	32.69
4	25.29	29.49	31.39	28.59	33.51	36.25	33.97	36.22	34.37	40.45	30.38	33.46
5	25.90	28.37	29.67	28.64	33.38	36.27	34.38	34.69	34.22	41.25	30.61	33.91
6	25.92	25.91	27.99	28.48	32.84	36.00	34.80	34.08	34.29	41.18	30.00	35.21
7	26.05	24.55	27.96	28.62	32.79	35.94	34.96	33.60	34.53	40.89	29.21	35.39
8	26.69	24.93	28.28	28.40	33.30	36.25	35.48	33.02	34.79	41.36	30.08	34.84
9	26.36	25.33	28.67	27.94	33.38	36.22	35.22	32.97	34.95	41.42	30.89	33.58
10	25.55	25.82	29.30	27.99	33.77	35.92	34.48	32.68	37.64	40.45	30.60	33.13
11	25.35	25.88	29.56	28.70	33.77	34.58	35.46	34.25	39.34	40.06	30.34	33.05
12	25.47	27.88	29.67	29.20	33.72	34.11	36.73	34.24	40.13	40.53	30.36	33.29
13	25.34	27.59	29.87	29.85	33.77	33.62	37.29	34.54	40.18	41.15	29.97	33.90
14	25.17	26.12	29.65	30.07	33.68	33.30	37.49	34.65	38.93	41.47	29.10	34.21
15	25.29	26.23	29.51	30.03	33.91	33.51	37.39	34.67	39.35	44.04	29.18	34.19
16	25.12	30.35	29.15	29.99	33.83	33.48	37.03	34.64	39.29	44.77	30.37	34.34
17	24.67	32.78	28.87	29.52	33.81	33.33	36.90	33.74	39.09	43.84	31.01	33.78
18	24.87	32.97	28.74	31.65	33.78	33.99	36.94	33.55	38.72	43.22	32.28	33.03
19	25.42	34.40	28.27	31.95	33.83	33.97	37.57	33.46	37.95	43.90	32.90	32.42
20	26.82	34.30	28.26	32.71	33.91	33.50	38.05	33.66	38.89	43.44	32.97	32.14
21	27.28	34.27	28.18	32.33	34.39	33.52	38.49	33.68	39.60	43.22	31.75	33.10
22	27.32	32.16	28.24	30.66	35.23	32.89	38.78	33.65	40.29	40.13	30.96	33.12
23	26.61	34.17	28.41	31.27	35.90	33.00	38.77	33.43	40.68	36.61	32.69	32.60
24	26.07	34.74	28.33	31.81	35.76	33.09	38.59	33.69	41.12	32.99	33.00	32.42
25	26.14	34.19	27.94	31.54	34.70	33.50	39.07	33.80	41.01	33.47	32.59	31.85
26	26.53	30.77	28.04	32.27	34.52	33.65	39.41	33.86	40.85	32.56	33.34	31.99
27	26.57	29.35	28.22	32.69	34.30	33.65	39.79	34.19	43.18	31.16	33.85	32.64
28	26.64	27.30	28.09	33.17	34.25	33.74	40.11	34.21	43.61	31.79	32.35	32.60
29	26.49	26.04	28.12	33.06	---	33.88	40.14	34.06	42.34	32.05	32.06	33.10
30	26.18	26.86	28.23	33.11	---	33.98	40.02	34.05	41.54	31.11	33.22	33.00
31	25.55	---	28.08	33.72	---	33.86	---	34.21	---	30.20	33.49	---
MAX	27.32	34.74	31.39	33.72	35.90	36.27	40.14	41.19	43.61	44.77	33.85	35.39

WTR YR 1983 MEAN 33.01 HIGH 24.55 LOW 44.77

TUSCARAWAS COUNTY

403207081293800. Local number, TU-3.
LOCATION.--Lat 40°32'07", long 81°29'38", Hydrologic Unit 05040001, in the northwest part of Dover.
Owner: Dover City Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 62 ft (18.9 m), cased.
DATUM.--Altitude of land-surface datum is 880 ft (268 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) 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 (5.898 m) Nov. 29-30, Dec. 6-8, 1962; minimum daily low, 3.20 ft (0.975 m) July 15, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 29, 1982	11.26	Jan. 31, 1983	10.32	Apr. 29,1983	7.30	July 28, 1983	8.87
Nov. 30	10.67	Feb. 28	10.36	May 31	6.54	Aug. 31	9.73
Dec. 29	10.32	Mar. 31	9.53	June 30	8.08	Sept. 29	10.01

GROUND-WATER RECORDS

TUSCARAWAS COUNTY--Continued.

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 (0.15 m), depth 42.5 ft (13.0 m), cased.
DATUM.--Altitude of land-surface datum is 920 ft (280 m), from topographic map. Measuring point: Floor of instrument shelter 3.50 ft (1.067 m) 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, 10.68 ft (3.255 m) Nov. 3, 1982; minimum daily low, 4.05 ft (1.234 m) July 13, 1969.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 10.68 ft (3.255 m) Nov. 3; minimum daily low, 6.26 ft (1.908 m) May 11.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.46	10.59	10.01	8.96	9.50	9.34	8.71	7.42	6.82	8.14	8.85	9.70
2	10.33	10.60	10.01	8.99	9.52	9.36	8.65	7.11	6.93	8.03	8.84	9.71
3	10.46	10.68	10.01	9.08	9.28	9.38	8.57	6.61	6.99	8.05	8.91	9.68
4	10.41	10.64	10.02	9.15	9.13	9.40	8.59	6.48	6.93	8.04	8.89	9.70
5	10.43	10.50	9.97	9.13	9.12	9.48	8.57	6.55	6.97	8.07	8.94	9.77
6	10.43	10.49	9.99	9.19	8.96	9.39	8.55	6.46	7.04	8.10	8.92	9.78
7	10.44	10.53	9.96	9.23	9.02	9.46	8.54	6.36	7.15	8.19	8.94	9.80
8	10.55	10.60	9.93	9.29	9.02	9.47	8.52	6.34	7.21	8.20	9.06	9.82
9	10.48	10.60	9.94	9.19	9.03	9.49	8.41	6.37	7.24	8.15	9.09	9.89
10	10.41	10.61	9.93	9.28	9.05	9.45	8.12	6.36	7.37	8.20	9.10	9.81
11	10.45	10.62	10.01	9.28	9.07	9.43	7.94	6.26	7.33	8.28	9.12	9.83
12	10.46	10.62	9.91	9.29	9.15	9.39	7.90	6.29	7.39	8.33	9.18	9.89
13	10.47	10.49	9.98	9.32	9.06	9.28	7.83	6.42	7.45	8.42	9.14	9.96
14	10.48	10.47	10.01	9.30	9.13	9.31	7.74	6.36	7.56	8.50	9.18	9.93
15	10.49	10.54	9.99	9.28	9.21	9.24	7.44	6.32	7.65	8.49	9.30	9.99
16	10.55	10.55	9.95	9.29	9.15	9.20	7.34	6.41	7.61	8.49	9.28	9.96
17	10.46	10.61	9.88	9.38	9.19	9.19	7.25	6.44	7.68	8.61	9.33	9.96
18	10.50	10.61	9.89	9.38	9.22	9.16	7.30	6.48	7.69	8.64	9.37	9.90
19	10.53	10.61	9.74	9.43	9.14	9.14	7.29	6.52	7.71	8.37	9.43	10.00
20	10.53	10.57	9.78	9.43	9.15	9.03	7.34	6.62	7.80	8.41	9.41	9.99
21	10.53	10.56	9.74	9.45	9.21	9.02	7.37	6.56	7.83	8.53	9.41	9.99
22	10.57	10.50	9.72	9.43	9.27	8.99	7.44	6.54	7.94	8.56	9.51	10.00
23	10.50	10.47	9.69	9.44	9.23	8.97	7.39	6.59	7.96	8.51	9.50	9.98
24	10.51	10.42	9.54	9.50	9.28	8.95	7.42	6.59	7.97	8.55	9.56	10.00
25	10.56	10.34	9.40	9.49	9.28	8.95	7.51	6.59	8.00	8.63	9.63	9.97
26	10.59	10.33	9.30	9.51	9.37	8.90	7.52	6.63	8.04	8.77	9.58	10.00
27	10.59	10.24	9.30	9.58	9.28	8.88	7.58	6.72	8.18	8.84	9.57	10.02
28	10.59	10.31	9.18	9.52	9.35	8.88	7.63	6.66	8.17	8.77	9.58	10.04
29	10.61	10.06	9.18	9.49	---	8.77	7.60	6.68	8.08	8.83	9.68	10.08
30	10.54	10.03	9.06	9.50	---	8.77	7.51	6.73	8.12	8.80	---	10.09
31	10.54	---	9.01	9.55	---	8.69	---	6.80	---	8.84	---	---
MAX	10.61	10.68	10.02	9.58	9.52	9.49	8.71	7.42	8.18	8.84	9.68	10.09

WTR YR 1983 MEAN 9.00 HIGH 6.26 LOW 10.68

403653081321800. Local number, TU-1.
LOCATION.--Lat 40°36'53", long 81°32'18", Hydrologic Unit 05040001, 1.3 mi (2.1 km) north of Strasburg.
Owner: Everett Waltz.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in (0.1 m), depth 23 ft (7.0 m), cased.
DATUM.--Altitude of land-surface datum is 928.24 ft (282.928 m). Measuring point: Floor of instrument shelter 0.90 ft (0.274 m) above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--July 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 15.51 ft (4.727 m) Nov. 20-22, 1982; minimum daily low, 6.64 ft (2.024 m) July 14, 1969.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 15.51 ft (4.727 m) Nov. 20-22; minimum daily low, 9.40 ft (2.865 m) May 10.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.21	15.42	15.10		14.09	13.77	12.61	11.10	10.40	12.20	13.28	14.30
2	15.22	15.42	15.06		14.09	13.81	12.62	10.82	10.48	12.23	13.26	14.33
3	15.23	15.43	15.04		14.02	13.83	12.57	10.38	10.51	12.17	13.29	14.35
4	15.24	15.43	15.03		13.87	13.86	12.53	10.01	10.59	12.16	13.34	14.38
5	15.24	15.42	---		13.68	13.89	12.44	9.75	10.65	12.18	13.37	14.40
6	15.25	15.42	---		13.52	13.90	12.38	9.62	10.73	12.22	13.42	14.43
7	15.26	15.43	---		13.44	13.92	12.36	9.49	10.82	12.27	13.48	14.45
8	15.26	15.44	---		13.42	13.93	12.35	9.43	10.91	12.32	13.52	14.46
9	15.27	15.45	---		13.41	13.93	12.27	9.41	10.90	12.38	13.57	14.48
10	15.28	15.46	---		13.43	13.92	12.07	9.40	11.07	12.44	13.60	14.50
11	15.28	15.47	---		13.46	13.89	11.67	9.45	11.14	12.50	13.65	14.52
12	15.29	15.48	---		13.49	13.83	11.46	9.54	11.23	12.56	13.69	14.55
13	15.29	15.47	---		13.50	13.76	11.32	9.62	11.30	12.61	13.72	14.56
14	15.30	15.46	---		13.51	13.67	11.18	9.72	11.37	12.66	13.76	14.57
15	15.31	15.46	---		13.54	13.55	11.01	9.77	11.46	12.71	13.79	14.59
16	15.31	15.48	---		13.55	13.46	10.83	9.83	11.54	12.76	13.82	14.62
17	15.32	15.48	---		13.57	13.41	10.63	9.89	11.61	12.80	13.86	14.63
18	15.33	15.49	---		13.56	13.39	10.53	9.94	11.68	12.85	13.89	14.64
19	15.34	15.50	---		13.56	13.39	10.49	10.00	11.74	12.70	13.93	14.66
20	15.34	15.51	---		13.58	13.32	10.50	10.04	11.79	12.78	13.97	14.67
21	15.35	15.51	---		13.60	13.20	10.56	10.07	11.86	12.87	13.99	14.69
22	15.36	15.51	---		13.61	13.13	10.53	10.05	11.93	12.86	14.03	14.69
23	15.36	15.47	---		13.64	13.08	10.69	10.03	11.99	12.88	14.07	14.70
24	15.37	15.42	---		13.67	13.03	10.76	10.00	12.05	12.93	14.11	14.72
25	15.37	15.29	---		13.72	13.04	10.85	10.03	12.14	12.98	14.13	14.73
26	15.38	15.36	---		13.74	13.03	10.91	10.09	12.20	13.03	14.17	14.74
27	15.39	15.35	---		13.76	13.02	11.00	10.15	12.26	13.08	14.20	14.76
28	15.39	15.34	---		13.76	12.96	11.06	10.21	12.28	13.12	14.21	14.78
29	15.40	15.28	13.72		---	12.82	11.07	10.24	12.09	12.17	14.23	14.79
30	15.41	15.19	---		---	12.73	11.11	10.30	12.14	13.22	14.26	14.81
31	15.41	---	---		---	12.66	---	10.33	---	13.25	14.27	---
MAX	15.41	15.51	15.10		14.09	13.93	12.62	11.10	12.28	13.25	14.27	14.81

WTR YR 1983 MEAN 13.19 HIGH 9.40 LOW 15.51

TUSCARAWAS COUNTY--Continued.

403823081324200. Local number, TU-5.
LOCATION.--Lat 40°38'23", long 81°32'42", Hydrologic Unit 05040001, Sugar Creek well field near Strasburg.
Owner: Canton Water Dept.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 100 ft (30.5 m), cased.
DATUM.--Altitude of land-surface datum is 937.93 ft (285.881. Measuring point: Floor of instrument shelter 4.00 ft (1.219 m) 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 (3.865 m) Feb. 14, 24, 1977; minimum daily low, 1.05 ft (0.320 m) July 9, 1969.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 12.26 ft (3.737 m) Dec. 1; minimum daily low, 2.08 ft (0.634 m) May 8.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.37	---	12.26	7.81	8.77	7.78	6.93	5.51	4.92	7.09	8.00	9.31
2	---	---	12.12	7.70	8.83	7.78	6.83	3.48	4.52	6.69	7.99	9.00
3	---	---	12.12	8.19	8.94	8.09	6.69	3.49	4.83	6.27	8.46	8.49
4	---	---	12.21	8.38	8.11	8.28	6.69	3.14	4.86	6.59	8.15	8.96
5	---	---	12.02	8.20	7.57	8.21	6.42	2.76	4.61	6.62	7.93	8.32
6	---	---	12.09	8.57	7.27	8.30	6.56	2.40	4.85	7.17	8.06	8.84
7	---	---	11.34	8.20	7.38	8.54	6.75	2.42	5.01	7.09	8.16	8.92
8	---	---	---	8.46	7.39	8.53	6.45	2.08	5.28	7.34	8.34	8.88
9	---	---	---	8.49	7.49	8.60	5.97	2.10	5.53	7.07	8.32	9.02
10	---	---	---	8.52	7.75	8.28	5.56	2.37	5.64	6.98	8.52	8.87
11	---	---	---	8.76	8.05	7.77	4.46	2.50	5.52	7.26	8.37	8.67
12	---	---	---	8.78	8.03	7.93	4.34	2.36	5.42	7.45	8.47	8.86
13	---	---	---	8.79	8.24	7.98	4.54	2.64	5.65	7.61	7.73	9.02
14	---	---	---	8.49	7.91	8.04	4.19	3.00	6.04	7.84	8.30	9.08
15	---	---	---	8.57	7.65	7.85	3.45	3.07	6.90	7.93	8.08	9.38
16	---	---	---	8.37	8.05	7.74	2.63	3.37	7.13	8.08	8.33	9.54
17	---	---	---	8.67	8.02	7.76	3.07	3.51	6.82	8.12	8.66	9.10
18	---	---	---	8.67	8.03	7.76	3.23	3.60	6.84	8.10	8.89	8.96
19	---	---	---	8.78	7.93	7.71	3.90	4.12	6.84	8.34	9.04	9.31
20	---	---	---	9.02	8.06	7.73	4.24	4.10	6.95	8.11	8.66	9.52
21	---	---	---	9.17	8.02	7.51	4.44	3.99	6.99	8.12	8.78	8.87
22	---	---	---	9.09	8.11	7.48	4.76	3.99	7.21	8.38	8.78	9.02
23	---	---	---	8.71	8.29	7.48	4.23	3.98	7.49	8.09	9.16	9.33
24	---	---	---	9.12	8.12	7.42	4.11	3.91	7.49	7.96	9.17	8.78
25	---	---	---	8.93	8.16	7.57	4.78	3.99	7.10	7.72	9.03	8.72
26	---	---	---	8.95	8.47	7.29	5.51	4.11	7.47	7.57	9.14	9.09
27	---	---	---	9.07	8.29	7.58	5.37	4.04	7.39	8.12	---	9.39
28	---	---	---	9.16	7.91	7.17	5.24	3.75	7.11	8.34	---	9.10
29	11.15	---	7.80	9.05	---	6.86	5.78	4.20	7.03	8.11	---	8.85
30	---	12.24	7.61	---	---	6.65	5.84	4.14	7.19	8.13	---	8.83
31	---	---	7.79	---	---	6.74	---	5.11	---	8.00	---	---
MAX	11.15	12.24	12.26	9.17	8.94	8.60	6.93	5.51	7.49	8.38	9.17	9.54

WTR YR 1983 MEAN 7.27 HIGH 2.08 LOW 12.26

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

UNION COUNTY

401826083255200. Local number, U-4.
LOCATION.--Lat 40°18'26", long 83°25'52", Hydrologic Unit 05060001, 2.6 mi (4.2 km) southeast of Raymond.
Owner: State of Ohio.
AQUIFER.--Limestone of Silurian Age .
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in (0.3 m), depth 350 ft (107 m), cased to 37 ft (11.3 m).
DATUM.--Altitude of land-surface datum is 1,040 ft (317 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) above land-surface datum.
PERIOD OF RECORD.--January 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.45 ft (7.452 m) Sept. 24, 1983; minimum daily low, 19.32 ft (5.889 m) Feb. 24, 1975.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 24.45 ft (7.452 m) Sept. 24; minimum daily low, 20.64 ft (6.291 m) May 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.25		---	22.84	23.14	22.88	22.66	21.59	22.02	21.75	22.93	23.84
2	---		---	22.87	22.87	22.88	22.55	21.06	22.06	21.74	23.00	23.85
3	---		---	22.99	22.54	22.92	22.44	20.72	22.07	21.81	23.02	23.88
4	---		---	23.04	22.80	22.89	22.63	20.64	22.03	21.82	23.02	23.90
5	---		---	23.01	22.82	22.92	22.58	20.89	22.08	21.76	23.04	23.89
6	---		---	22.98	22.71	22.90	22.49	20.96	22.10	21.86	23.05	23.91
7	---		24.19	23.07	22.81	22.85	22.42	20.98	22.16	21.96	23.06	24.00
8	---		24.18	23.12	22.84	22.89	22.33	21.16	22.24	21.99	23.09	24.05
9	---		24.21	23.10	22.82	22.92	22.24	21.28	22.34	21.99	23.17	24.05
10	---		24.03	23.01	22.85	22.96	21.89	21.36	22.39	22.05	23.20	24.06
11	---		24.05	23.04	22.91	22.99	21.94	21.43	22.47	22.10	23.12	24.06
12	---		24.10	23.19	23.01	23.00	22.02	21.47	22.48	22.14	23.24	24.10
13	---		24.08	23.21	23.02	22.98	21.97	21.50	22.47	22.25	23.31	24.18
14	---		24.08	23.19	22.86	22.93	21.83	21.50	22.45	22.26	23.33	24.21
15	---		24.06	23.24	22.84	23.00	21.59	21.56	22.46	22.29	23.38	24.24
16	---		23.79	23.25	22.85	23.03	21.67	21.71	22.52	22.41	23.37	24.13
17	---		23.64	23.26	22.87	22.97	21.69	21.80	22.55	22.39	23.37	24.23
18	---		23.62	23.36	22.88	22.90	21.68	21.83	22.57	22.43	23.38	24.20
19	---		23.47	23.42	22.86	22.92	21.79	21.74	22.53	22.48	23.45	24.26
20	---		23.33	23.46	22.95	22.94	21.85	21.85	20.86	22.50	23.52	24.25
21	---		23.46	23.34	22.91	22.71	21.93	21.88	21.07	22.56	23.57	24.28
22	---		23.49	23.24	22.85	22.92	21.96	21.79	21.21	22.55	23.55	24.31
23	---		23.42	23.17	22.78	22.94	21.97	21.78	21.33	22.51	23.65	24.39
24	---		23.42	23.11	22.81	22.91	21.99	21.87	21.40	22.59	23.72	24.45
25	---		23.41	23.17	22.98	22.98	22.05	21.82	21.52	22.68	23.73	24.41
26	---		23.41	23.16	23.06	22.95	22.15	21.89	21.63	22.72	23.72	24.37
27	---		23.36	23.16	23.06	22.77	22.17	21.98	21.73	22.76	23.75	24.38
28	---		22.53	23.16	22.96	22.82	22.19	21.93	21.73	22.79	23.72	24.39
29	---		22.75	23.09	---	22.90	22.23	21.83	21.77	22.86	23.74	24.42
30	---		22.81	23.07	---	22.88	22.17	21.82	21.81	22.88	23.75	24.42
31	---		22.81	23.11	---	22.72	---	21.89	---	22.89	23.77	---
MAX	24.25		24.21	23.46	23.14	23.03	22.66	21.98	22.57	22.89	23.77	24.45

WTR YR 1983 MEAN 22.79 HIGH 20.64 LOW 24.45

VINTON COUNTY

391452082282900. Local number, V-1.
LOCATION.--Lat 39°14'52", long 82°28'29", Hydrologic Unit 05090101, State Highway garage in Vinton.
Owner: Ohio Department of Highways.
AQUIFER.--Sandstone of Mississippian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 218 ft (66.4 m), cased.
DATUM.--Altitude of land-surface datum is 730 ft (223 m) from topographic map. Measuring Point: Top of platform 2.50 ft (0.762 m) 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 (28.417 m); Apr. 12, 1979; minimum daily low, 49.55 ft (15.103 m) Mar. 20, 1963.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 88.61 ft (27.008 m) Sept. 7; minimum daily low, 85.40 ft (26.030 m), July 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	88.16	87.70	87.52	86.57	86.41	85.46	85.76	85.75	85.42	85.86	87.94
2	---	88.26	87.52	87.42	86.57	86.32	85.51	85.71	85.95	85.47	85.93	87.84
3	---	88.17	87.55	87.18	86.59	86.32	85.86	85.62	85.82	85.50	86.10	87.89
4	---	88.16	87.40	87.21	86.91	86.21	86.20	85.61	85.57	85.46	86.40	87.82
5	---	88.24	87.42	86.98	86.93	86.34	86.16	85.80	85.60	85.40	86.58	87.71
6	---	88.21	87.47	86.91	86.74	86.28	85.97	85.94	85.74	85.48	86.71	87.85
7	---	88.23	87.52	86.80	86.76	86.21	85.97	85.80	85.75	85.65	86.58	88.61
8	---	88.05	87.51	86.80	86.74	86.17	85.92	86.02	85.85	85.68	86.70	88.61
9	---	88.10	87.56	86.72	86.72	86.16	85.86	86.00	85.83	85.70	86.70	88.25
10	---	88.06	87.40	86.74	86.71	86.18	85.74	86.06	85.93	85.42	86.83	88.16
11	---	88.05	87.31	86.54	86.62	86.16	85.77	85.86	86.05	85.44	86.73	88.07
12	---	87.93	87.29	86.63	86.77	86.40	85.77	85.86	85.86	85.42	87.01	88.09
13	---	88.15	87.31	86.62	86.77	86.40	85.76	85.86	85.91	85.43	87.08	88.20
14	---	88.19	87.27	86.60	86.64	86.23	85.67	85.85	85.82	85.51	87.08	88.35
15	88.07	88.07	87.21	86.47	86.60	86.22	85.66	85.62	85.97	85.53	86.99	88.31
16	88.09	88.09	87.35	86.52	86.60	86.23	85.83	85.77	85.82	85.86	86.94	88.18
17	88.20	87.95	87.37	86.49	86.70	86.16	85.65	85.98	85.82	86.01	86.94	88.19
18	88.21	88.01	87.30	86.52	86.70	86.01	85.56	85.95	85.82	86.19	86.79	87.94
19	88.21	88.05	87.21	86.65	86.69	85.89	85.58	85.90	85.69	86.37	86.92	87.99
20	88.09	87.95	87.22	86.70	86.75	85.88	85.74	85.90	85.62	86.24	87.08	87.72
21	88.13	87.84	87.22	86.52	86.77	85.65	85.81	85.95	85.65	86.29	87.19	87.60
22	88.14	87.70	87.20	86.45	86.66	85.90	85.89	85.77	85.66	86.35	87.20	87.64
23	88.25	87.68	87.05	86.27	86.56	85.85	85.87	85.80	85.56	86.23	87.26	87.89
24	88.14	87.83	87.05	86.49	86.49	85.80	85.61	85.99	85.48	86.05	87.43	88.04
25	88.02	87.83	87.32	86.65	86.60	85.83	85.74	85.97	85.58	85.91	87.83	87.79
26	88.04	87.71	88.42	86.64	86.80	85.82	85.79	85.84	85.52	86.08	87.89	87.74
27	88.10	87.73	88.44	86.67	86.82	85.55	85.91	85.97	85.58	86.03	88.17	87.67
28	87.98	87.66	88.07	86.68	86.49	85.70	85.90	85.90	85.53	85.96	88.20	87.71
29	88.03	87.46	87.89	86.56	---	85.79	85.89	85.73	85.48	86.07	88.01	87.71
30	88.08	87.59	87.76	86.50	---	85.79	85.80	85.52	85.44	85.93	87.84	87.76
31	88.12	---	87.71	86.56	---	85.64	---	85.66	---	85.84	87.81	---
MAX	88.25	88.26	88.44	87.52	86.93	86.41	86.20	86.06	86.05	86.37	88.20	88.61

WTR YR 1983 MEAN 86.71 HIGH 85.40 LOW 88.61

WARREN COUNTY

392712084191700. Local number, W-5.
LOCATION.--Lat 39°27'12", long 84°19'17", Hydrologic Unit 05080002, Union Rd., 2 mi (3.2 km) east of Monroe.
Owner: Bob Proeschel.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diamter 12 in (0.3 m), depth 121 ft (36.9 m), cased.
DATUM.--Altitude of land-surface datum is 660 ft (201 m), from topographic map. Measuring point: Floor of instrument shelter 3.50 ft (1.067 m) 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, 43.60 ft (13.289 m) Sep. 30, 1983; minimum daily low, 17.70 ft (5.395 m) Apr. 30, 1975.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 43.60 ft (13.289 m) Sep. 30; minimum daily low, 40.25 ft (12.268 m) Oct. 1.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.25	41.15	41.25	41.30	41.75	41.95	42.30	42.35	41.70	41.60	42.10	42.95
2	40.25	41.20	41.15	41.35	41.55	42.05	42.20	42.20	41.75	41.60	42.20	43.05
3	40.35	41.40	41.25	41.45	41.80	42.15	42.50	42.05	41.30	41.60	42.25	43.10
4	40.45	41.45	41.15	41.50	42.10	41.95	42.80	42.20	41.35	41.40	42.25	42.95
5	40.55	41.50	40.90	41.45	41.95	42.05	42.85	42.65	41.30	41.55	42.40	43.00
6	40.40	41.50	41.45	41.40	41.65	41.90	42.50	42.50	41.45	41.60	42.20	43.10
7	40.45	41.60	41.45	41.35	41.90	42.00	42.50	42.25	41.60	41.50	42.45	43.25
8	40.45	41.55	41.35	41.55	41.95	42.15	42.40	42.45	41.50	41.55	42.55	43.35
9	40.40	41.60	41.50	41.40	41.90	42.20	42.50	42.70	41.45	41.35	42.60	43.30
10	40.25	41.50	41.15	41.35	41.95	42.20	42.55	42.80	41.85	41.45	42.60	43.35
11	40.55	41.40	41.10	41.35	41.90	42.25	42.60	42.50	41.65	41.50	42.35	43.35
12	40.45	41.50	41.20	41.65	42.15	42.20	42.50	42.20	41.60	41.55	42.55	43.25
13	40.55	41.65	41.25	41.55	42.00	42.15	42.35	42.15	41.65	41.75	42.45	43.30
14	40.50	42.00	41.25	41.40	41.85	42.15	42.35	42.05	41.80	41.85	42.55	43.40
15	40.40	42.00	41.15	41.70	41.85	42.35	42.50	42.00	42.60	41.95	42.70	43.35
16	40.65	41.60	41.30	41.45	41.75	42.25	42.45	42.25	41.90	41.90	42.75	43.00
17	40.75	41.80	41.40	41.75	42.00	42.30	42.40	42.25	41.75	41.90	42.65	43.35
18	40.85	41.80	41.35	41.85	41.85	42.00	42.35	42.15	41.65	42.00	42.65	43.40
19	40.55	41.65	41.10	41.75	41.95	42.40	42.45	41.90	41.40	42.00	42.75	43.40
20	40.85	41.65	41.25	41.55	42.05	42.15	42.35	41.95	41.65	42.95	42.95	43.25
21	40.90	41.60	41.50	41.40	42.00	42.45	42.55	41.95	41.60	42.00	42.85	43.35
22	40.95	41.75	41.50	41.50	41.80	42.55	42.35	41.80	41.60	42.05	42.80	43.40
23	40.85	41.70	41.25	41.70	41.85	42.45	42.35	41.90	41.90	42.00	43.00	43.50
24	40.75	42.00	41.45	41.65	41.90	42.45	42.35	41.95	41.85	42.15	43.05	43.60
25	40.70	41.85	41.25	41.85	42.10	42.50	42.80	41.85	42.00	42.05	43.10	43.45
26	40.90	41.68	41.45	41.90	42.15	42.45	42.75	42.15	42.10	42.00	43.15	43.45
27	40.75	41.80	41.25	41.75	42.05	42.00	42.80	42.20	41.90	42.15	43.15	43.50
28	41.25	41.30	41.30	41.70	41.85	42.45	42.55	41.55	41.70	42.10	42.90	43.50
29	41.30	41.55	41.55	41.80	---	42.70	42.65	41.45	41.70	42.20	42.90	43.60
30	41.20	41.45	41.65	---	---	42.45	42.55	41.50	41.55	42.20	42.85	43.60
31	41.30	---	41.35	41.90	---	42.30	---	41.70	---	42.00	42.85	---
MAX	41.30	42.00	41.65	41.90	42.15	42.70	42.85	42.80	42.60	42.95	43.15	43.60

WTR YR 1983 MEAN 41.95 HIGH 40.25 LOW 43.60

WASHINGTON COUNTY

392553081281600. Local number, WA-2.
LOCATION.--Lat 39°25'53", long 81°28'16", Hydrologic Unit 05040004 near county fairgrounds north of Marietta.
Owner: Marietta Water Dept.
AQUIFER.--Sand and gravel of Quaternary Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.2 m) depth 50 ft (15.2 m), cased.
DATUM.--Altitude of land-surface datum is 605 ft (184 m), from topographic map. Measuring point: Floor of instrument shelter 3.00 ft (0.914 m) 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, 34.38 ft (10.479 m) Feb. 16, 1980; minimum daily low, 18.72 ft (5.706 m) June 28, 1972.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 33.91 ft (10.336 m) Aug. 5,6; minimum daily low, 26.18 ft (7.980 m) Apr. 17.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.44	---	30.78	30.10	33.50	33.77	31.39	29.97	---	31.28	32.35	32.59
2	31.45	---	30.26	30.25	33.51	33.78	---	29.46	29.75	31.45	32.35	32.55
3	30.67	---	30.42	30.13	33.33	33.75	---	---	29.81	31.35	32.11	32.60
4	31.15	---	30.68	30.43	32.48	33.84	---	---	29.56	31.06	32.02	32.44
5	30.68	---	30.85	30.62	32.08	33.91	30.91	---	29.52	31.09	31.71	32.40
6	30.65	---	30.97	30.81	31.94	33.91	30.87	---	30.04	31.09	31.82	32.35
7	30.72	---	31.89	31.13	32.83	33.75	31.06	---	30.45	30.54	31.69	32.70
8	32.00	32.57	32.05	31.26	32.93	33.80	31.07	---	30.74	29.95	31.90	32.78
9	32.24	32.65	31.50	31.37	32.86	33.70	30.03	---	30.84	31.33	32.05	32.78
10	32.40	32.73	32.53	31.50	32.90	32.19	28.70	---	31.23	31.33	31.53	32.85
11	32.41	32.76	32.60	31.98	32.12	33.27	27.88	---	31.40	31.25	31.36	32.77
12	31.84	33.69	32.19	31.90	32.20	33.27	28.04	---	31.58	31.36	31.50	32.75
13	32.00	33.74	31.39	31.75	32.26	33.17	28.06	---	31.78	31.25	31.33	32.61
14	32.13	33.42	31.03	32.07	32.52	32.50	29.34	---	31.83	31.26	31.12	32.89
15	32.15	32.36	31.11	32.36	33.42	32.38	27.36	---	31.80	31.33	31.15	32.78
16	32.14	32.64	31.10	32.07	33.77	32.38	26.81	---	31.92	31.30	31.63	32.74
17	31.92	32.79	30.97	32.40	33.51	33.18	26.18	---	32.16	31.36	31.38	32.61
18	31.83	32.83	30.63	32.72	33.64	33.36	26.92	---	32.06	31.36	31.39	32.44
19	31.80	33.01	30.52	32.97	33.63	32.54	26.90	---	31.78	31.28	30.81	32.49
20	31.81	33.01	30.35	33.67	33.63	32.06	27.32	---	31.84	31.51	30.81	32.54
21	31.86	32.99	32.03	33.74	32.18	31.66	27.81	---	31.80	31.69	31.33	32.50
22	31.95	32.58	31.68	33.73	33.67	31.04	28.19	---	31.54	31.67	32.02	32.60
23	30.72	32.58	31.33	33.75	32.12	30.46	28.50	---	31.22	31.69	32.09	32.53
24	30.95	32.34	30.97	33.70	33.12	31.40	29.26	---	31.65	31.59	32.25	32.45
25	30.91	32.13	30.73	33.57	33.69	30.98	29.28	---	31.48	31.68	32.26	32.49
26	31.27	32.13	30.75	33.68	33.63	31.03	29.02	---	31.57	32.10	32.36	32.39
27	33.15	31.85	29.64	33.68	33.64	30.78	29.11	---	31.74	31.75	32.34	32.49
28	33.15	31.87	29.98	33.51	33.74	31.42	30.08	---	31.74	31.84	32.32	32.48
29	32.97	---	29.98	33.63	---	31.38	30.07	---	31.68	31.98	32.56	32.15
30	32.20	---	28.91	33.77	---	30.81	29.99	---	31.33	32.03	32.45	32.47
31	32.78	---	28.66	33.78	---	30.83	---	---	---	32.25	32.34	---
MAX	33.15	33.74	32.60	33.78	33.77	33.91	31.39	29.97	32.16	32.25	32.56	32.89

WTR YR 1983 MEAN 31.72 HIGH 26.18 LOW 33.91

WAYNE COUNTY

404655081553200. Local number, WN-3.
LOCATION.--Lat 40°46'55", long 81°55'32", Hydrologic Unit 05040003, OARDC-OSU Experiment Station near Wooster. Owner: OARDC-OSU.
AQUIFER.--Shale of Mississippian Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 8 in (0.2 m) depth 20 ft (6.1 m), cased.
DATUM.--Altitude of land-surface datum is 1040 ft (317 m), from topographic map. Measuring point: Floor of instrument shelter 3.50 ft (1.067 m) 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 (4.929 m) Jan. 27, 29, 1956; minimum daily low, 10.51 ft (3.203 m) Feb. 12, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum recorded daily low, 14.30 ft (4.359 m) Aug. 23; minimum daily low, 10.84 ft (3.304 m) May 3.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.63	13.82	11.88	12.15	13.74	14.05	---	13.13	13.12	13.94	12.36	
2	13.64	13.72	12.03	12.27	13.68	14.08	---	11.19	13.24	13.38	12.09	
3	13.66	13.65	12.21	12.42	11.20	14.12	---	10.84	13.29	12.30	12.34	
4	13.68	13.58	12.39	12.58	11.66	14.15	---	10.90	13.29	12.47	12.59	
5	13.69	13.39	12.55	12.69	11.96	14.21	---	11.12	13.31	12.59	12.82	
6	13.73	13.22	12.64	12.85	12.09	14.23	---	11.45	13.38	12.78	13.04	
7	13.77	13.15	12.74	12.97	12.22	14.06	---	11.77	13.47	12.99	13.21	
8	13.79	13.08	12.84	13.09	12.36	13.92	---	11.97	13.56	13.13	13.37	
9	13.81	13.03	12.96	13.22	12.49	12.69	---	12.08	13.64	13.27	13.48	
10	13.83	12.99	13.05	13.33	12.63	13.03	---	12.22	13.72	13.41	13.55	
11	13.85	12.96	13.13	13.34	12.77	13.04	---	12.34	13.81	13.54	13.56	
12	13.86	12.90	13.20	13.32	12.95	12.00	---	12.55	13.88	13.65	13.00	
13	13.87	12.78	13.28	13.44	13.06	12.18	---	12.63	13.93	13.73	13.07	
14	13.88	12.30	13.37	13.55	13.14	12.36	---	12.68	13.97	13.80	13.24	
15	13.89	12.25	13.43	13.64	13.22	12.48	---	12.69	13.99	13.86	13.40	
16	13.91	12.25	11.26	13.74	13.28	11.99	---	12.04	14.00	13.90	13.53	
17	13.93	12.24	11.78	13.81	13.34	12.21	---	12.28	14.03	13.92	13.64	
18	13.95	12.22	12.02	13.89	13.40	12.31	---	12.43	14.05	13.92	13.73	
19	13.98	12.16	12.13	13.96	13.46	12.30	---	12.49	14.06	13.88	13.83	
20	14.00	12.21	11.96	14.00	13.52	11.61	12.14	12.64	14.06	13.77	13.97	
21	14.03	12.23	11.67	14.03	13.58	10.91	12.26	12.75	14.07	13.76	14.10	
22	14.04	11.55	11.93	14.06	13.66	11.27	12.39	12.56	14.08	13.76	14.19	
23	14.06	11.68	12.01	14.07	13.73	11.59	12.51	12.03	14.09	13.70	14.30	
24	14.07	11.80	11.12	14.07	13.86	11.73	12.62	12.23	14.10	13.69	---	
25	14.08	11.92	11.50	14.05	13.92	---	12.76	12.39	14.12	13.61	---	
26	14.09	12.02	11.73	14.00	13.96	---	12.89	12.60	14.13	13.58	---	
27	14.10	12.09	11.88	13.99	13.99	---	13.02	12.82	14.15	13.63	---	
28	14.10	12.13	11.09	13.99	14.02	---	13.11	12.99	14.15	13.66	---	
29	14.07	11.60	11.48	14.00	---	---	13.21	13.00	14.13	13.70	---	
30	14.02	11.74	11.80	14.00	---	---	13.22	12.89	14.04	13.77	---	
31	13.95	---	12.01	13.90	---	---	---	13.00	---	13.82	---	
MAX	14.10	13.82	13.43	14.07	14.02	14.23	13.22	13.13	14.15	13.94	14.30	

WTR YR 1983 MEAN 13.09 HIGH 10.84 LOW 14.30

WAYNE COUNTY--Continued.

404802081583100. Local number, WN-2A.
LOCATION.--Lat 40°48'02", long 81°58'31", Hydrologic Unit 05040003, in well field by Kilbuck Creek near Wooster.
Owner: Wooster Water Dept.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in (0.15 m), depth 65 ft (19.8 m), cased.
DATUM.--Altitude of land-surface datum is 855 ft (261 m), from topographic map. Measuring point: Floor of instrument shelter 6.00 ft (1.829 m) 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 (10.500 m) Feb. 17, 1972; minimum daily low, 2.35 ft (0.716 m) Jan. 28, 1952.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 25.66 ft (7.821 m) Apr. 4-12; minimum daily low, 22.21 ft (6.770 m) Oct. 1.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.21	23.10	23.96	24.77	25.20	25.49	25.65	25.41	23.84	22.80	22.69	23.30
2	22.24	23.13	23.99	24.78	25.22	25.49	25.65	25.39	23.79	22.79	22.69	23.35
3	22.27	23.16	24.02	24.79	25.24	25.51	25.65	25.37	23.75	22.77	22.71	23.40
4	22.29	23.19	24.04	24.81	25.25	25.52	25.66	25.34	23.70	22.76	22.72	23.44
5	22.31	23.22	24.07	24.83	25.26	25.53	25.66	25.30	23.66	22.75	22.73	23.48
6	22.34	23.25	24.10	24.83	25.27	25.54	25.66	25.26	23.62	22.74	22.74	23.52
7	22.34	23.28	24.13	24.85	25.29	25.55	25.66	25.21	23.57	22.73	22.74	23.57
8	22.39	23.31	24.17	24.86	25.30	25.57	25.66	25.16	23.53	22.73	22.75	23.63
9	22.39	23.34	24.21	24.87	25.32	25.58	25.66	25.11	23.49	22.72	22.77	23.68
10	22.44	23.37	24.24	24.89	25.34	25.59	25.66	25.05	23.45	22.72	22.78	23.74
11	22.47	23.40	24.26	24.91	25.35	25.59	25.66	25.00	23.41	22.71	22.80	23.80
12	22.50	23.43	24.29	24.94	25.35	25.60	25.66	24.95	23.38	22.70	22.82	23.86
13	22.53	23.46	24.32	24.95	25.36	25.60	25.65	24.89	23.35	22.68	22.83	23.91
14	22.56	23.48	24.36	24.96	25.37	25.61	25.65	24.82	23.30	22.68	22.84	23.98
15	22.58	23.51	24.39	24.97	25.39	25.61	25.65	24.76	23.25	22.67	22.85	24.04
16	22.62	23.54	24.43	24.98	25.40	25.61	25.64	24.71	23.22	22.66	22.87	24.10
17	22.64	23.57	24.46	24.99	25.41	25.62	25.64	24.66	23.19	22.65	22.89	24.15
18	22.68	23.60	24.49	25.01	25.42	25.62	25.63	24.59	23.15	22.64	22.91	24.20
19	22.71	23.63	24.51	25.02	25.43	25.62	25.61	24.53	23.13	22.63	22.94	24.25
20	22.74	23.66	24.53	25.03	25.44	25.62	25.60	24.47	23.11	22.62	22.96	24.31
21	22.77	23.68	24.53	25.04	25.44	25.63	25.58	24.41	23.08	22.62	22.98	24.38
22	22.80	23.71	24.59	25.05	25.46	25.63	25.56	24.37	23.05	22.62	23.00	24.44
23	22.83	23.74	24.62	25.06	25.46	25.63	25.53	24.32	23.02	22.63	23.03	24.50
24	22.86	23.77	24.64	25.08	25.47	25.63	25.51	24.27	22.98	22.63	23.06	24.55
25	22.89	23.80	24.66	25.10	25.47	25.64	25.49	24.21	22.94	22.63	23.09	24.61
26	22.92	23.83	24.67	25.11	25.48	25.64	25.47	24.16	22.92	22.64	23.12	24.66
27	22.95	23.85	24.69	25.12	25.48	25.64	25.46	24.10	22.90	22.65	23.15	24.72
28	22.98	23.88	24.71	25.14	25.49	25.64	25.44	24.04	22.87	22.66	23.18	24.78
29	23.01	23.90	24.73	25.15	---	25.64	25.43	23.99	22.84	22.66	23.20	24.85
30	23.04	23.93	24.75	25.16	---	25.65	25.42	23.94	22.82	22.67	23.23	24.91
31	23.07	---	24.77	25.18	---	25.65	---	23.89	---	22.68	23.27	---
MAX	23.07	23.93	24.77	25.18	25.49	25.65	25.66	25.41	23.84	22.80	23.27	24.91

WTR YR 1983 MEAN 24.13 HIGH 22.21 LOW 25.66

405745081510200. Local number, WN-7.
LOCATION.--Lat 40°57'45", long 81°51'02", Hydrologic Unit 05040001, in well field along Steele Ditch near Sterling.
Owner: Rittman Water Department
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.2 m), depth 123 ft (37.5 m), cased.
DATUM.--Altitude of land-surface datum is 965 ft (294 m), from topographic map. Measuring point: Floor of instrument shelter 5.00 ft (1.524 m) 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, 23.35 ft (7.117 m) Sep. 23, 1982; minimum daily low, 5.38 ft (1.640 m) Jan. 17, 1980.
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 23.20 ft (7.071 m) July 18; minimum daily low, 15.80 ft (4.816 m) May. 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.05	19.20	18.90	19.35	18.65	---	16.85	17.00	16.00	18.50	18.95	20.70
2	19.80	19.15	19.15	19.45	18.65	17.35	17.40	17.10	16.15	18.15	17.95	22.10
3	19.50	19.15	---	19.40	17.25	17.40	17.70	17.00	15.90	20.15	18.05	21.05
4	19.70	19.05	---	19.45	17.30	18.20	17.50	16.75	15.95	21.10	21.05	20.95
5	19.80	19.00	---	20.90	---	18.10	17.45	16.65	17.05	18.10	17.85	22.45
6	20.05	19.15	---	19.40	---	17.90	17.50	16.40	17.25	17.95	21.95	23.00
7	20.45	19.50	---	19.35	---	18.05	17.45	16.40	17.40	17.95	18.10	20.25
8	20.00	19.80	---	19.45	---	17.95	17.45	16.20	17.25	18.15	18.25	20.25
9	20.05	19.70	---	19.30	---	17.90	17.55	16.45	17.45	18.25	21.65	19.15
10	21.50	19.65	---	19.25	---	17.85	17.35	16.50	17.45	17.90	21.25	19.05
11	19.95	19.55	---	19.20	---	17.80	17.45	16.65	17.95	18.50	21.45	18.85
12	19.90	19.65	---	21.35	---	17.90	17.40	16.65	17.85	18.65	18.60	19.05
13	19.70	19.60	---	19.35	---	17.80	17.40	16.65	18.15	18.95	21.60	19.15
14	19.80	19.60	---	18.00	---	17.95	17.20	16.75	17.20	19.10	18.10	19.15
15	19.70	19.80	---	17.80	---	17.55	17.25	17.55	16.95	19.05	21.35	19.00
16	20.75	20.00	---	17.85	---	16.80	17.25	17.30	17.05	19.10	19.85	18.80
17	19.80	20.35	---	17.80	---	16.80	17.25	17.65	16.90	18.75	19.80	18.85
18	20.60	20.25	---	17.95	---	16.55	17.05	17.75	16.95	23.20	20.05	18.75
19	22.10	19.85	---	17.85	---	16.55	16.00	17.25	16.55	21.75	20.00	18.90
20	20.45	19.90	---	18.00	---	16.45	15.95	17.40	17.95	21.50	20.00	18.85
21	20.40	19.65	---	17.85	---	17.15	16.05	17.35	18.05	19.20	20.10	18.65
22	20.45	20.50	---	17.60	---	17.30	16.05	16.90	18.35	18.75	21.55	18.70
23	20.45	20.55	---	18.95	---	17.25	16.10	16.75	18.55	18.60	20.25	18.70
24	20.55	22.40	---	18.90	---	17.20	16.00	16.05	18.50	18.60	20.15	18.70
25	20.25	20.40	---	18.90	---	17.20	17.40	16.00	18.70	18.75	20.45	18.65
26	19.25	21.65	---	18.90	---	17.25	18.95	16.00	18.65	19.00	20.50	18.80
27	19.35	21.80	---	18.85	---	16.95	17.35	16.05	18.75	19.25	20.45	18.70
28	19.20	---	---	18.80	---	17.00	19.35	16.00	18.20	19.75	21.00	18.75
29	19.25	---	---	18.60	---	17.15	19.55	15.80	18.20	19.45	22.05	18.70
30	19.60	---	19.60	18.75	---	18.85	17.20	15.85	18.30	22.05	21.00	18.65
31	19.35	---	19.60	18.60	---	16.90	---	15.95	---	18.85	21.95	---
MAX	22.10	22.40	19.60	21.35	18.65	18.85	19.65	17.75	18.75	23.20	22.05	23.00

WTR YR 1983 MEAN 18.67 HIGH 15.80 LOW 23.20

WAYNE COUNTY--Continued

405805081462300. Local number, WN-6.
LOCATION.--Lat 40°58'05", long 81°46'23", Hydrologic Unit 05040001, Salt Street, Rittman.
Owner: Tenneco, Inc.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.2 m), depth 180 ft (54.9 m), cased.
DATUM.--Altitude of land-surface datum is 960 ft (293 m), from topographic map. Measuring point: Floor of instrument shelter 2.30 ft (0.701 m) 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 (28.285 m) July 21, 1971; minimum daily low, 71.28 ft (21.726 m) Mar. 21, 1983
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 78.69 ft (23.985 m) Nov. 9; minimum daily low, 71.28 ft (21.726 m) Mar. 21.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77.08	75.93	73.11	72.72		---	72.67	73.44	73.13	73.85	73.83	74.04
2	76.99	76.68	73.15	72.54		75.23	72.49	73.19	73.26	73.91	73.90	74.04
3	76.88	76.83	75.88	74.51		75.33	72.36	73.12	73.21	73.93	73.89	73.96
4	76.99	76.93	73.92	74.69		75.26	72.78	73.19	73.02	73.82	73.79	75.99
5	77.05	76.72	73.32	74.60		75.35	72.79	73.54	73.08	73.87	73.81	76.06
6	77.16	76.83	78.47	75.42		75.28	72.64	73.62	73.81	74.08	73.85	73.40
7	77.06	76.80	75.46	75.51		75.15	73.38	73.36	73.07	74.17	73.85	73.77
8	77.01	76.75	75.48	75.72		75.06	73.43	73.66	74.26	74.13	73.82	73.88
9	76.95	78.69	75.60	75.67		75.21	73.42	73.71	74.08	73.93	73.99	73.57
10	76.98	77.07	75.37	75.51		75.25	73.30	73.77	74.16	73.87	74.03	73.47
11	77.10	77.01	74.54	75.35		75.35	73.47	73.69	74.08	73.87	73.88	73.37
12	77.19	76.68	74.56	75.76		75.36	73.54	73.58	74.08	73.91	74.06	73.46
13	77.11	76.93	74.66	75.69		75.35	73.61	73.47	74.05	74.03	74.19	73.59
14	76.94	74.20	74.49	75.67		72.18	73.42	73.28	73.96	74.01	74.22	73.71
15	76.85	74.77	74.43	75.57		72.17	73.57	73.33	73.87	73.90	74.15	73.74
16	77.23	74.71	74.47	75.57		72.18	73.58	73.50	73.96	73.86	74.13	73.49
17	77.39	74.54	74.57	75.68		71.96	73.46	73.64	74.01	73.83	74.08	73.49
18	77.38	74.53	74.44	---		71.73	73.44	73.68	73.98	73.89	74.19	73.49
19	77.37	74.49	74.20	---		71.48	73.40	73.44	73.99	73.88	74.29	73.52
20	77.49	74.38	74.14	---		71.55	73.46	73.40	73.98	73.89	74.29	73.46
21	77.69	74.24	74.52	---		71.28	73.47	73.41	74.03	73.84	74.33	73.40
22	77.69	74.24	74.55	---		71.72	73.52	73.26	74.06	73.85	74.25	73.52
23	77.56	73.99	74.35	---		74.03	73.46	73.14	74.03	73.75	74.37	73.75
24	77.55	75.17	74.42	---		73.14	73.21	73.32	73.93	73.74	74.42	73.87
25	77.42	75.99	73.08	---		73.22	73.29	73.27	73.91	73.85	74.39	73.73
26	77.37	75.77	73.03	---		73.26	73.44	73.26	73.93	73.89	74.25	73.58
27	77.41	75.38	73.59	---		72.80	73.43	73.30	73.90	73.92	74.14	73.59
28	77.30	74.22	73.36	---		72.85	73.53	73.27	73.85	73.94	74.04	73.63
29	77.12	74.99	73.51	---		73.16	73.59	73.05	73.93	73.96	74.02	73.65
30	77.18	73.25	73.80	---		73.15	73.47	72.85	73.92	73.92	73.99	73.53
31	75.70	---	73.72	---		72.83	---	72.02	---	73.84	73.95	---
MAX	77.69	78.69	78.47	75.76		75.36	73.64	73.77	74.26	74.17	74.42	76.06

WTR YR 1983 MEAN 74.35 HIGH 71.28 LOW 78.69

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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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