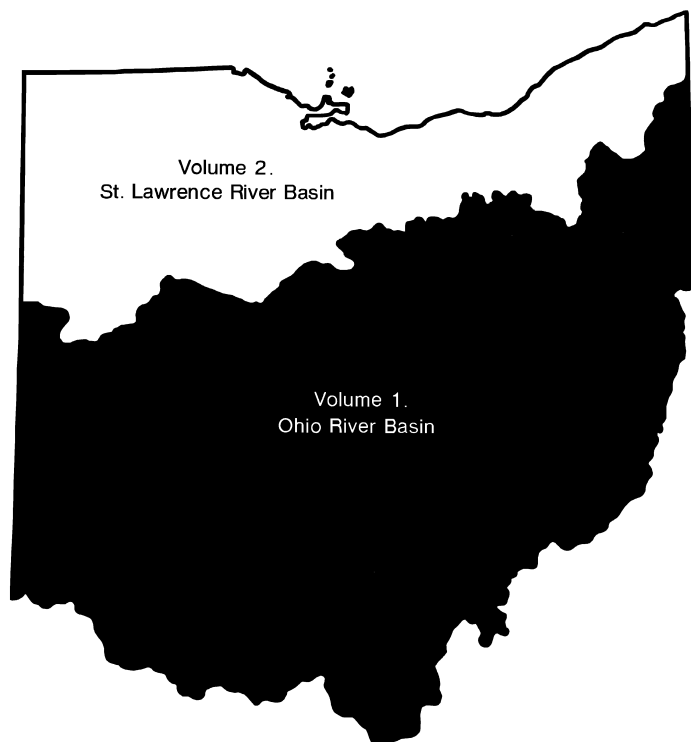


Water Resources Data Ohio Water Year 2005

Volume 1. Ohio River Basin Excluding Project Data

By J.P. Mangus and S.R. Frum

Water-Data Report OH-05-1



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

U.S. Department of the Interior
U.S. Geological Survey



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Preface

This volume of the annual hydrologic data report of Ohio is one of a 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 Trust Territories. These records of streamflow, ground-water levels, and quality of water provide 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 two volumes:

Volume 1. Ohio River Basin Excluding Project Data

Volume 2. St. Lawrence River Basin and 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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[Letters after station names designate type of data: (c) chemical, (d) discharge, (e) contents and (or) elevation, (M) water-quality monitor, (HBM) hydrologic bench mark, (S) daily suspended-sediment data]

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[Letters after station names designate type of data: (I) water level]

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Figure 1a. Location of data-collection stations.

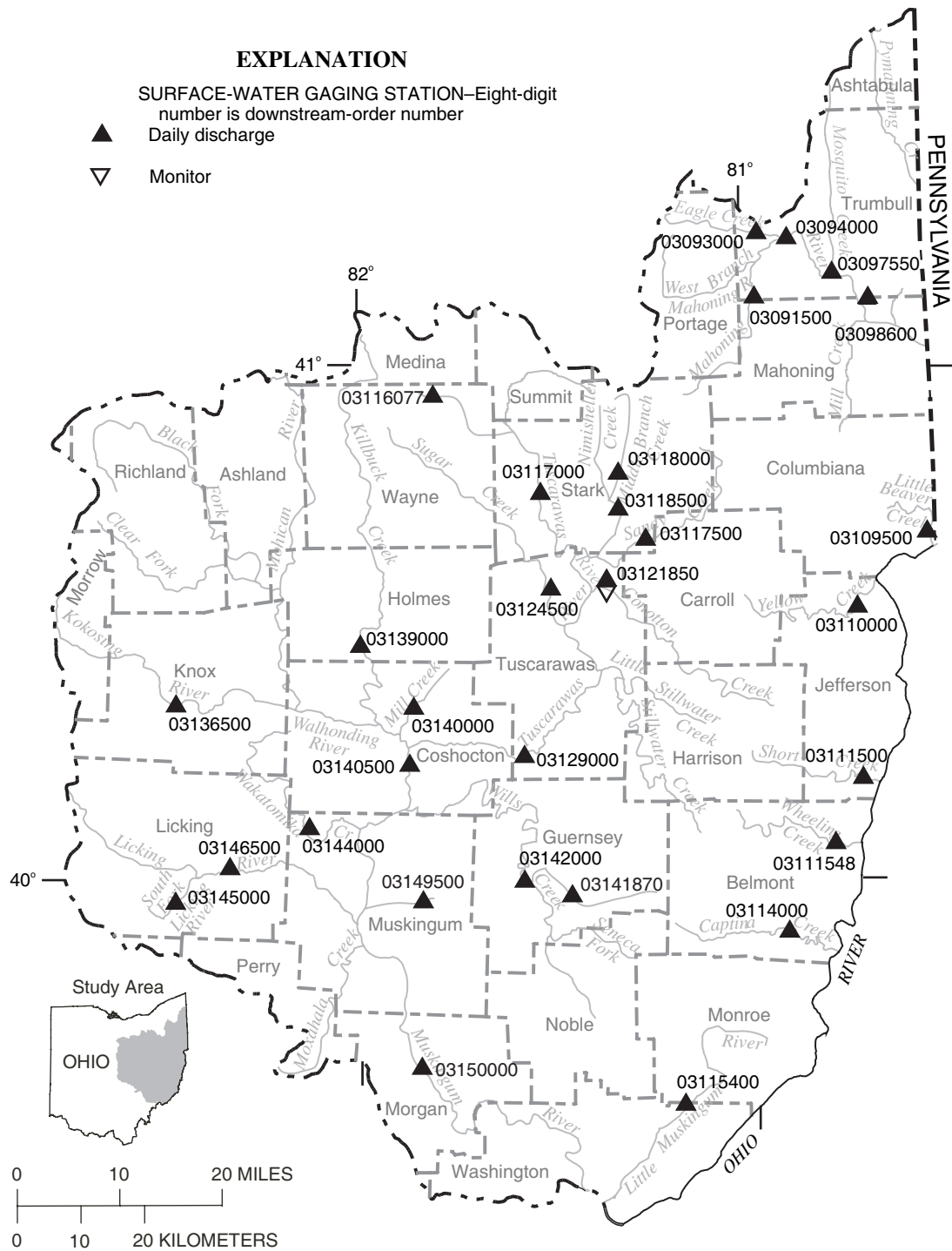


Figure 1b. Location of data-collection stations.

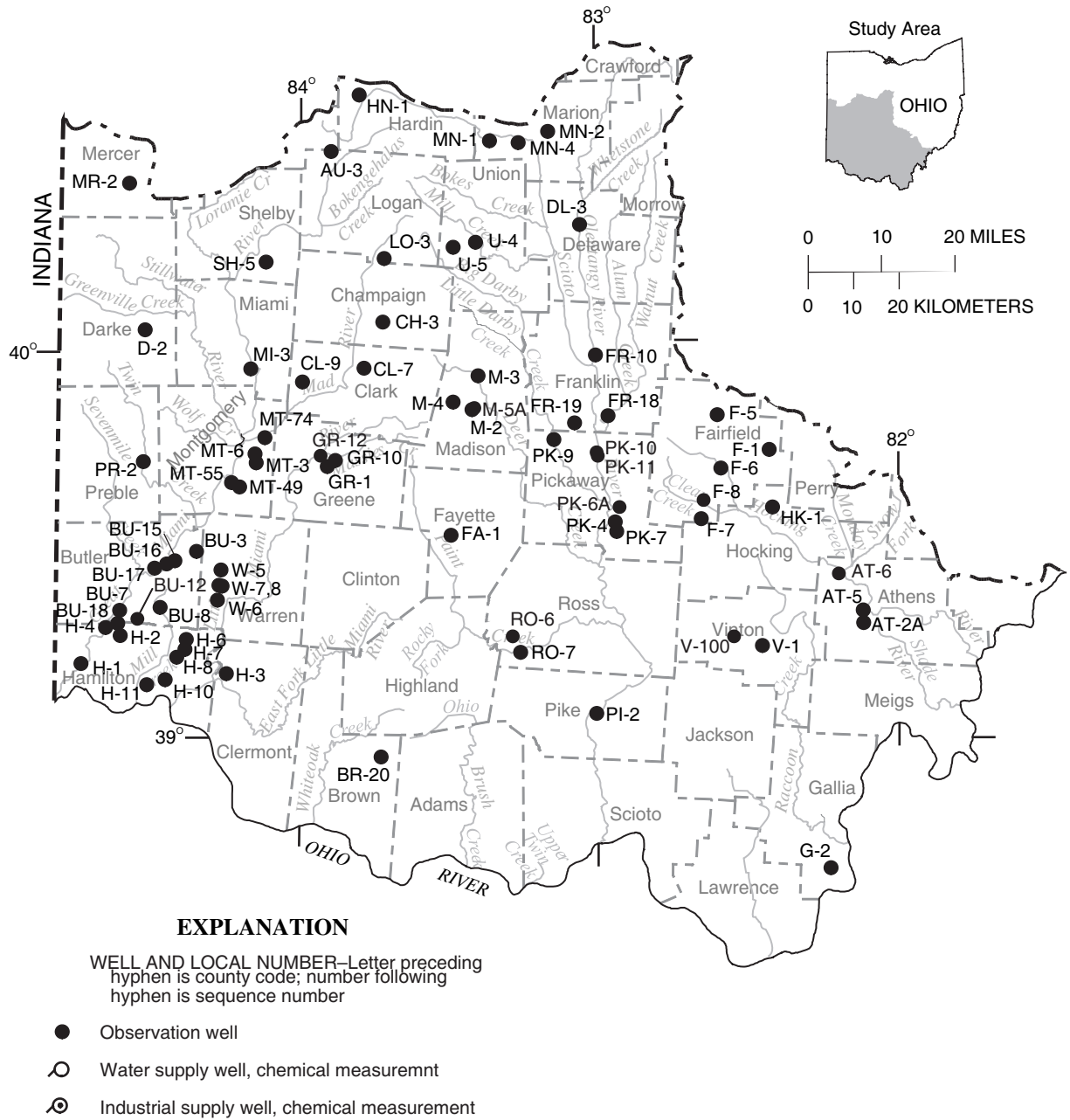


Figure 1c. Location of data-collection wells.

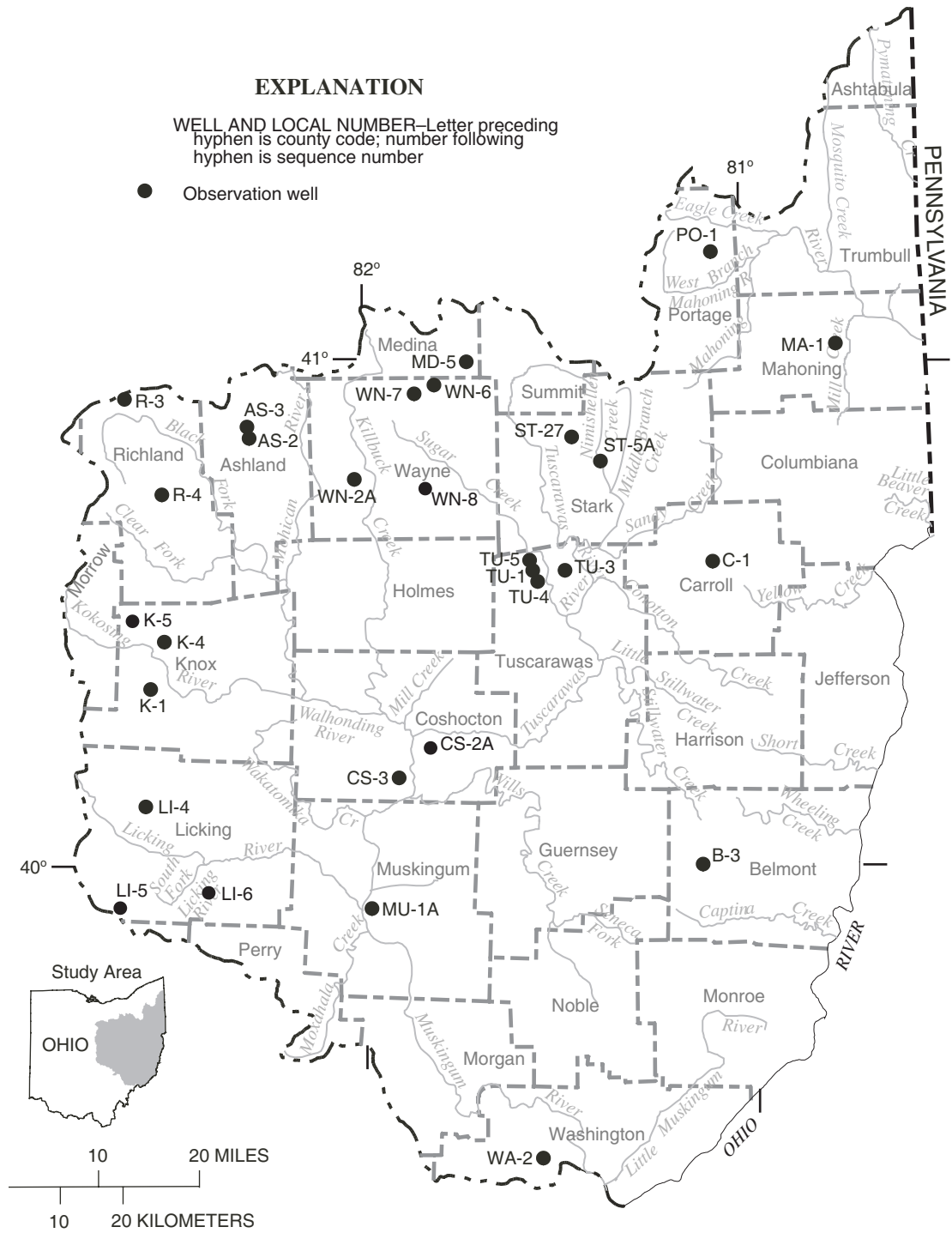


Figure 1d. Location of data-collection wells.

Discontinued Surface-Water-Discharge Stations

The following continuous-record surface-water-discharge or stage-only stations (gaging stations) have been discontinued. Daily discharge or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the USGS Ohio Water Science Center at the address given on the back side of the title page of this report.

Station name	Station number	Drainage area (in square miles)	Period of record
Mahoning River at Alliance	03086500*	89.2	1941–93
Beech Creek near Bolton	03087000	17.4	1944–51
Deer Creek at Limaville	03088000	33.2	1942–51
Mahoning River near Deerfield	03088500	175	1924–31
Willow Creek near Deerfield	03089000	11.6	1941–43
Mill Creek near Berlin Center	03089500	19.1	1942–72
Mahoning River below Berlin Dam near Berlin Center	03090500	48	1931–91
Kale Creek near Pricetown	03092000	21.9	1941–93
West Branch Mahoning River near Ravenna	03092090*	21.8	1966–93
West Branch Mahoning River below MJ Kerwin Dam at Wayland	03092460	81.7	1969–91
West Branch Mahoning River near Newton Falls	03092500	96.3	1927–82
Duck Creek at Leavittsburg	03093500	32.3	1941–48
Mahoning River at Warren	03094500	594	1925–35
Mosquito Creek below Mosquitto Creek Dam near Cortland	03095500	97.5	1926–29 1943–91
Mosquito Creek at Niles	03096000	138	1929–51
Meander Creek at Ohlestown	03096500	78.4	1926–29
Meander Creek at Mineral Ridge	03097500	84.3	1929–51
Mahoning River at Youngstown	03098000	898	1922–82
Mill Creek at Youngstown	03098500	66.3	1944–71 1999–2000
Mahoning River at Lowellville	03099500	1073	1944–72 1974–1991 1999–2000
Pymatuning Creek at Kinsman	03102950*	96.7	1966–94
Lisbon Creek at Lisbon	03109000	6.19	1947–62
Stateline Creek near Negley	03109320	3.09	1977–79
Yellow Creek at Hammondsville	03110500	164	1915–35
Consol Run near Bloomingdale	03110983	.98	1979–81
Captina Creek at Armstrongs Mill	03114000	134	1986–35 1958–2003
Little Muskingum River at Fay	03115500	258	1915–18 1926–35
Montrose Run at Montrose	03115969	0.263	1993–98
Schocalog Run at Montrose	03115970	1.59	1994–98
Schocalog Run at Fairlawn	03115971	2.13	1992–98

Station name	Station number	Drainage area (in square miles)	Period of record
Schocalog Run at Copley Junction	03115973*	3.65	1992–2004
Tuscarawas River at Clinton	03116000	174	1926–79
Chippewa Creek at Easton	03116200	146	1961–82
Tuscarawas River at Crystal Springs	03116500	435	1922–29
Sandy Creek at Sandyville	03119000	481	1924–47
McGuire Creek below Leesville Dam near Leesville	03120500*	48.3	1939–91 1992
Indian Fork below Atwood Dam near New Cumberland	03121500	70	1961–75
Tuscarawas River below Dover Dam near Dover	03122500*	1,045	1924–91
Sugar Creek above Beach City Dam at Beach City	03123000	160	1945–75
Sugar Creek below Beach City Dam near Beach City	03124000	300	1939–91
Home Creek near New Philadelphia	03125000	1.64	1937–80
Stillwater Creek at Piedmont	03126000*	122	1939–91
Stillwater Creek at Tippecanoe	03127000*	282	1939–91
Stillwater Creek at Urichsville	03127500	367	1922–91
Clear Fork Tributary near Hanover	03127970	.68	1978–81
Little Stillwater Creek below Tappan Dam at Tappan	03128500	71.1	1939–91
Black Fork below Charles Mills Dam near Mifflin	03130000	217	1939–91
Touby Run at Mansfield	03130500	5.44	1947–78
Rocky Fork near Mansfield	03131000	39	1925–32
Black Fork at Loudonville	03131500*	349	1931–91
Clear Fork at Butler	03132000	136	1945–75
Clear Fork at Newville	03132500	174	1935–39
Clear Fork below Pleasant Hill Dam near Perrysville	03133500*	198	1939–91
Jerome Fork at Jeromeville	03134000	120	1926–49
Lake Fork below Mohicanville Dam	03135000*	271	1939–93
Lake Fork near Loudonville	03135500	344	1931–32 1935–39
Mohican River at Greer	03136000	948	1922–82
Kokosing River near Lucerne	03136175	59.5	2000–2004
North Branch Kokosing River near Federicktown	03136400	45.5	1973–78
Kokosing River at Millwood	03137000	455	1922–74
Walhonding River below Mohawk Dam at Nellie	03138500	1,505	1922–91
Killbuck Creek at Layland	03139500	503	1924–30
Seneca Fork below Senecaville Dam near Senecaville	03141500*	118	1938–91
Salt Fork near Cambridge	03142200	55.6	1956–68
Salt Fork below Salt Fork Dam near Cambridge	03142295	159	1971–79
Wills Creek at Birds Run	03142500	730	1928–39
Wills Creek below Wills Creek Dam at Wills Creek	03143500	842	1939–91
Sand Fork near Wakatomika	03144400	1.34	1978–83
Opossum Run Tributary near Wakatomika	03144450	1.27	1978–83
Muskingum River at Dresden	03144500	5,993	1922–85
Raccoon Creek at Granville	03145500	82.7	1940–48
North Fork Licking River at Utica	03146000	116	1940–48 1970–83

Station name	Station number	Drainage area (in square miles)	Period of record
Licking River at Toboso	03147000	672	1903–06 1922–61
Licking River below Dillon Dam near Dillon Falls	03147500*	742	1940–92
Meigs Creek near Beverly	03150250	136	1972–75
Muskingum River at Beverly	03150300	7,627	1993–99
Hunters Run at Lancaster	03156000	10.0	1956–80
Hocking River at Lancaster	03156400	48.2	1956–75
Hocking River near Lancaster	03156500	90.3	1924–32
Clear Fork near Logan	03158000	14.8	1942–47
Snow Fork Monday Creek at Buchtel	03158195	24.4	1981 1997–2002
Sunday Creek at Glouster	03159000	104	1952–81
Hocking River below Athens	03159510	957	1977–93
East Branch Shade River near Tupper Plains	03159555	37.5	1980–82 1983–85
Sandy Run above Big Four Hollow Creek near Lake Hope	03201600	.98	1971–82
Big Four Hollow Creek below East Fork near Lake Hope	03201660	.73	1979–81
Big Four Hollow Creek near Lake Hope	03201700	1.01	1971–83
Hull Hollow Creek near Lake Hope	03201720	.22	1979–81
Sandy Run near Lake Hope	03201800	4.99	1958–79
Zinns Run near Radcliff	03201929	3.41	1988–91
Strongs Run near Ewington	03201947	15.8	1988–91
Symmes Creek at Getaway	03205500	335	1938–47
Scioto River at LaRue	03217500	257	1927–35 1939–51
Little Scioto River above Marion	03218000	72.4	1939–72
Little Scioto River at Sewage Treatment Plant near Marion	03218500	85.8	1925–36 1938–39
Little Scioto River near Marion	03219000	93.3	1924–25 1939
Bokes Creek near Warrenburg	03219590	83.2	1982–97
Eagon Run near Warrenburg	03219600	.123	1950–62
Olentangy River near New Winchester	03222500	49.4	1947–49
Olentangy River at Clairdon	03223000	157	1947–98
Whetstone Creek near Shawtown	03223500	61.8	1947–55
Shaw Creek at Shawtown	03224000	25.4	1947–55
Whetstone Creek near Ashley	03224500	98.7	1955–74
Olentangy River at Delaware	03226000	421	1922–24
Olentangy River at Stratford	03226500	445	1934–36 1938–58
Rush Run at Worthington	03226865	1.65	1979–82
Linworth Road Creek at Columbus	03226870	2.03	1979–82
Bethel Road Creek at Columbus	03226875	.22	1979–82
Olentangy River at Henderson Road at Columbus	03226885	518	1978–82
Scioto Big Run at Briggsdale	03228000	11.0	1947–58

Station name	Station number	Drainage area (in square miles)	Period of record
Alum Creek at Columbus	03229000	189	1923–35 1938–98
Scioto River near Circleville	03230000	2,638	1939–56
Scioto River at Circleville	03230700*	3,217	1974–79 1990
Deer Creek at Pancoastburg	03230900*	277	1964–98
Deer Creek at Williamsport	03231000	333	1927–35 1939–56 1962–92
Rattlesnake Creek at Centerfield	03232300	209	1971–82
Paint Creek below Paint Creek Dam near Bainbridge	03232470	570	1968–92
Paint Creek at Bourneville	03234000*	807	1921–37 1938–98
Salt Creek at Tarlton	03235000	11.5	1947–61
Tar Hollow Creek at Tar Hollow State Park	03235500	1.35	1947–79
Salt Creek near Londonderry	03236000	286	1939–50
Little Salt Creek near Jackson	03236500	76.1	1925–32
Little Miami River near Selma	03239000	48.9	1952–58
North Fork Little Miami River near Pitchin	03239500	28.9	1951–58
North Fork Massies Creek at Cedarville	03240500	28.9	1954–68
South Fork Massies Creek at Cedarville	03241000	17.1	1954–68
Little Miami River at Spring Valley	03242000	360	1926–35 1940–51
Little Miami River near Spring Valley	03242050	366	1968–85
Caesar Creek near Xenia	03242150	71.4	1900 1968–84
Anderson Fork near New Burlington	03242200	77.8	1968–84
Caesar Creek at Harveysburg	03242300	209	1961–75
Caesar Creek near Wellman	03242350	239	1965–74
Little Miami River near Fort Ancient	03242500	680	1940–51
Todd Fork near Wilmington	03243000	22.2	1923 1943–44
Cowan Creek near Wilmington	03243500	32.0	1943–50
Todd Fork near Roachester	03244000	219	1952–75
East Fork Little Miami River near Dodsonville	03246000	91.4	1947–48
East Fork Little Miami River near Marathon	03246200	195	1968–84
East Fork Little Miami River near Williamsburg	03246500	237	1949–53 1961–74 1999–2000
East Fork Little Miami River near Bantam	03247000	330	1949–53
East Fork Little Miami River near Batavia	03247050	352	1965–94
Shayler Run near Perintown	03247400	11.8	1968–73
Little Miami River at Plainville	03248000	1,713	1965–71
Mill Creek at Reading	03255500	73.0	1939–91
West Fork Mill Creek at Mount Healthy	03256000	7.90	1949–53
West Fork Mill Creek near Greenhills	03257000	29.9	1945–53

Station name	Station number	Drainage area (in square miles)	Period of record
West Fork Mill Creek at Woodlawn	03257500	32.2	1953–86
West Fork Mill Creek at Lockland	03258000	35.6	1939–57
Mill Creek at Carthage	03259000*	115	1946–2002
Mill Creek at Mitchell Avenue at Cincinnati	03259500	135	1941–44 1990
Stony Creek near DeGraff	03260800	59.1	1958–76
Bokengehalas Creek near DeGraff	03260700	36.3	1957–92
Great Miami River at Quincy	03261000	405	1947–49
Great Miami River at Piqua	03262500	866	1915–17
Greenville Creek near Greenville	03263500	142	1930–31
Mad River at Zanesfield	03266500	7.31	1947–78
Mad River at Tremont City	03267500	264	1931–33 1966–75
Chapman Creek at Tremont City	03267600	24.0	1968–69
Moore Run near Eagle City	03267700	18.2	1966–72
Buck Creek near New Moorefield	03267950	30.5	1967–77
East Fork Buck Creek near New Moorefield	03267960	28.7	1967–77
Buck Creek at New Moorefield	03268000	65.3	1943–58
Beaver Creek near Springfield	03268500	39.2	1943–58 1973–76
Buck Creek at Springfield	03269000	139	1915–21 1925–49 1973–74
Wolf Creek at Trotwood	03270800	22.7	1963–86
Great Miami River at Miamisburg	03271500*	2,711	1916–20 1924–35 1952–95
Twin Creek near Ingomar	03271800	197	1962–99
Sevenmile Creek at Collinsville	03272800	120	1960–72
Sevenmile Creek at Sevenmile	03273000	135	1915–20
Fourmile Creek near Hamilton	03273500	307	1938–60
Great Miami River at Venice	03274500	3,789	1915–27 1932–33

Discontinued Surface-Water-Quality Stations

The following continuous-record surface-water-quality stations have been discontinued. Daily records of temperature, specific conductance, pH, dissolved oxygen, or sediment were collected and published for the period of record, expressed in water years, shown for each station. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the USGS Ohio Water Science Center at the address given on the back side of the title page of this report.

[Letters designate type of record: do, dissolved oxygen; pH, pH; s, sediment; sc, specific conductance; t, temperature]

Station name	Station number	Drainage area (in square miles)	Type of record	Period of record
Beech Creek near Bolton	03087000	17.4	t	1943–51
Mahoning River above Duck Creek at Leavittsburg	03093800	542	do, pH, sc, t	1968–81
Mahoning River at Warren	03094500	594	t	1924–35
Mahoning River at Lowellville	03099500	1,073	t	1953–61
			do, pH, sc t	1963–67
Mahoning River at Ohio–Pennsylvania State Line	03099510	1,075	do, pH, sc, t	1967–91
Ohio River at Stratton	03110700	23,500	t	1961
			sc	1964–70
Consol Run near Bloomingdale	03110983	.98	s	1979–81
Tuscarawas River at Navarre	03117100	534	do, pH, sc, t	1968–84
			do, pH, sc, t	1987–91
Black Fork at Londonville	03131500	349	do, pH, sc, t	1968–76
Sand Fork near Wakatomika	03144400	1.34	s	1978–81
North Fork Licking River at Utica	03146000	116	t	1970–73
Licking River near Newark	03146500	537	t	1962–68
			do, pH, sc, t	1968–80
Muskingum River at Philo	03149200	7,196	do, pH, sc, t	1965–74
Muskingum River near Beverly	03150300	7,626	t	1963–70
			sc	1964–70
North Branch Hunters Run near Hooker	03155900	104	s	1956–62
Hocking River at Athens	03159500	943	t	1954–64
			s	1956–65
			sc	1964–65
Hocking River below Athens	03159510	957	do, sc, t	1966–80
			pH	1972–80
Sandy Run above Big Four Hollow Creek near Lake Hope	03201600	98	pH, sc, t	1971–78
Big Four Hollow Creek near Lake Hope	03201700	1.01	pH, sc, t	1971–83
			s	1978–83
Sandy Run near Lake Hope	03201800	4.99	do, sc, t.	1970–78
Raccoon Creek at Adamsville	03202000	585	do, pH, sc, t	1967–84
			s	1969–74
			s	1985
Whetstone Creek near Ashley	03224500	98.7	sc	1964–68
Olentangy River near Worthington	03226800	497	t	1955–68
			s	1978–81
Rush Run at Worthington	03226865	1.65	s	1978–81

[Letters designate type of record: do, dissolved oxygen; pH, pH; s, sediment; sc, specific conductance; t, temperature]

Station name	Station number	Drainage area (in square miles)	Type of record	Period of record
Linworth Road Creek at Columbus	03226870	2.03	s	1978–81
Bethel Road Creek at Columbus	03226875	.22	s	1978–81
Olentangy River at Henderson Road at Columbus	03226885	518	s	1978–81
Alum Creek at Africa	03228805	122	sc, t	1965–70
Scioto River below Shadeville	03229600	2,266	do, sc, t pH	1965–80 1971–80
Little Darby Creek at West Jefferson	03230310	162	s	1992–98
Big Darby Creek at Darbyville	03230500	534	s	1965–77 1992–98
Scioto River at Chillicothe	03231500	3,849	t	1951 1953–81 do, sc 1965–81 pH 1971–81 do, pH, sc, t 1985–2002
Paint Creek near Greenfield	03232000	249	t	1974–78
Rattlesnake Creek at Centerfield	03232300	209	t	1974–78
Paint Creek at Chillicothe	03234300	1,136	do, pH, sc, t	1985–2002
Scioto River at Higby	03234500	5,131	s	1959–74 1979–82 do, pH, sc, t 1967–93 1996–2002
Salt Creek near Londonderry	03235995	268	t	1973–74
Scioto River at Lucasville	03237100	6,178	t sc	1956–74 1965–74
Little Miami River near Selma	03239000	48.9	s, t	1952–58
North Fork Little Miami River near Pitchin	03239500	28.9	s, t	1952–58
North Fork Massies Creek at Cedarville	03240500	28.9	s, t	1954–68
South Fork Massies Creek near Cedarville	03241000	17.1	s, t	1954–68
Little Miami River near Spring Valley	03242050	366	do, pH, sc, t	1968–80
Caesar Creek at Harveysburg	03242300	209	sc, t	1970–75
Todd Fork near Roachester	03244000	219	s, t	1952–58
Little Miami River at Miamiville	03245300	1,189	do, pH, sc, t	1970–75
Little Miami River at Milford	03245500	1,203	do, pH, sc, t s	1975–84 1978–84
East Fork Little Miami River at Williamsburg	03246500	237	sc, t	1970–75
Great Miami River at Tipp City	03262745	970	do, pH, sc, t	1978–80
Mad River at Eagle City	03267800	307	s t	1965–69 1965–69 2002–2004
Buck Creek at New Moorefield	03268000	65.3	do, pH, sc	2002–2004
Mad River near Dayton	03270000	635	sc, t	1970–76
Great Miami River near Stewart Street at Dayton	03271075	2,587	do, pH, sc, t	1968–80
Great Miami River near Miamisburg	03271600	2,715	do, pH, sc, t	1978–80
Great Miami River at Rockdale	03272410	3,275	do, pH, sc, t	1964–78 1978–80

[Letters designate type of record: do, dissolved oxygen; pH, pH; s, sediment; sc, specific conductance; t, temperature]

Station name	Station number	Drainage area (in square miles)	Type of record	Period of record
Great Miami River at New Baltimore	03274600	3,814	sc, t	1966
			do, sc, t	1968–82
			pH	1975–82
Great Miami River at Elizabethtown	03276600	5,356	t	1956–74
			sc	1964–74

Introduction

The Water Resources Discipline of the U.S. Geological Survey (USGS), in cooperation with state agencies, obtains a large amount of data each water year (a water year is the 12-month period from October 1 through September 30 and is identified by the calendar year in which it ends) pertaining to the water resources of Ohio. These data, accumulated during many years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, they are published annually in this report series entitled "Water Resources Data—Ohio."

This report (in two volumes) includes records on surface water and ground water in the State. Specifically, it contains (1) discharge records for streamflow-gaging stations, miscellaneous sites, and crest-stage stations, (2) stage and content records for streams, lakes, and reservoirs, (3) water-quality data for streamflow-gaging stations, wells, synoptic sites, and partial-record sites, and (4) water-level data for observation wells. Locations of lake- and streamflow-gaging stations, water-quality stations, and observation wells for which data are presented in this volume are shown in figures 1a through 1d (located after Contents). The data in this report represent that part of the National Water Information System collected by the USGS and cooperating State and Federal agencies in Ohio.

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

Prior to the introduction of this series, and for several years concurrent with it, water-resources data for Ohio were published in a series of USGS Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage through September 1960 were published annually under the title "Surface-Water Supply of the United States, Parts 3 and 4." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and ground-water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply Papers can be found in libraries of the principal cities of the United States and can be purchased from the U.S. Geological Survey, Information Services, Box 25286, Denver, CO 80225.

Publications similar to this report are published annually by the USGS for all states. These official USGS reports are identified by means of a number consisting of the two-letter

state abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report OH-05-1." For archiving and general distribution, the reports for 1971–74 water years are also identified as water-data reports. These water-data reports can be purchased in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161.

USGS water data can be accessed on the World Wide Web at <http://water.usgs.gov>. Data at this Web site include historical daily values and peaks, real-time water data, and spatial data. (The USGS Ohio Water Science Center's Web site can be accessed at <http://oh.water.usgs.gov>.)

Additional information for specific reports may be obtained by writing to the address given on the back of title page or by telephoning (614) 430-7700.

Cooperation

The USGS has had cooperative agreements for the collection of water-resources data since 1898. The following organizations assisted in collecting data in this report:

- Cities of Akron, Canton, Columbus (Water Division and Sewerage and Drainage Division), Fremont, and Westerville
- Counties of Geauga, Lake, Lucas, Lorain, Madison, Medina, Ross, and Summit
- Coshocton Soil and Water Conservation District
- Eastgate Development and Transportation Agency
- Miami Conservancy District
- Mill Creek Valley Conservancy District
- National Park Service
- Northeast Ohio Regional Sewer District
- Ohio Departments of Natural Resources (Mineral Resources Management, Water, and Wildlife Divisions) and Transportation
- Ohio Environmental Protection Agency
- Ohio Water Development Authority
- Ohio Lake Erie Office
- Ottawa Soil and Water District
- University of Toledo
- U.S. Army Corps of Engineers (Buffalo, Huntington, Louisville, and Pittsburgh Districts)
- U.S. Environmental Protection Agency, Office of Research and Development
- Villages of North Olmstead and South Russell

Summary of Hydrologic Conditions

Ohio is part of three physiographic provinces. Each province has its own distinctive hydrologic characteristics. The topography of the Till Plains Section of the Central Lowlands Physiographic Province (fig. 2) consists of gently rolling ground moraine, bands of terminal moraine, and outwash-filled valleys. Glaciation altered the courses of most streams in this area. The Eastern Lake Section (fig. 2) consists of wide expanses of level or nearly level land interrupted only by the sporadic sandy ridges that are the last visible remnants of glacial-lake beaches. Much of the area was swamp prior to development, and marshes are still present along Lake Erie near Toledo. The Lexington Plain Section of the Interior Low Plateaus Province (fig. 2) is characterized by rolling terrain and a few isolated large hills and ridges. The “barbed” drainage pattern formed when small streams were captured as their headwaters cut back into the hills over time. Streams have carved the Kanawha Section of the Appalachian Plateaus Province (fig. 2) into an intricate series of hollows and steep-sided ridges. Only the large streams in the section have any appreciable flood plain. In the southern New York Section (fig. 2), successive waves of glaciation have subdued the relief, buried many preglacial valleys, and rerouted many streams.

Precipitation

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

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

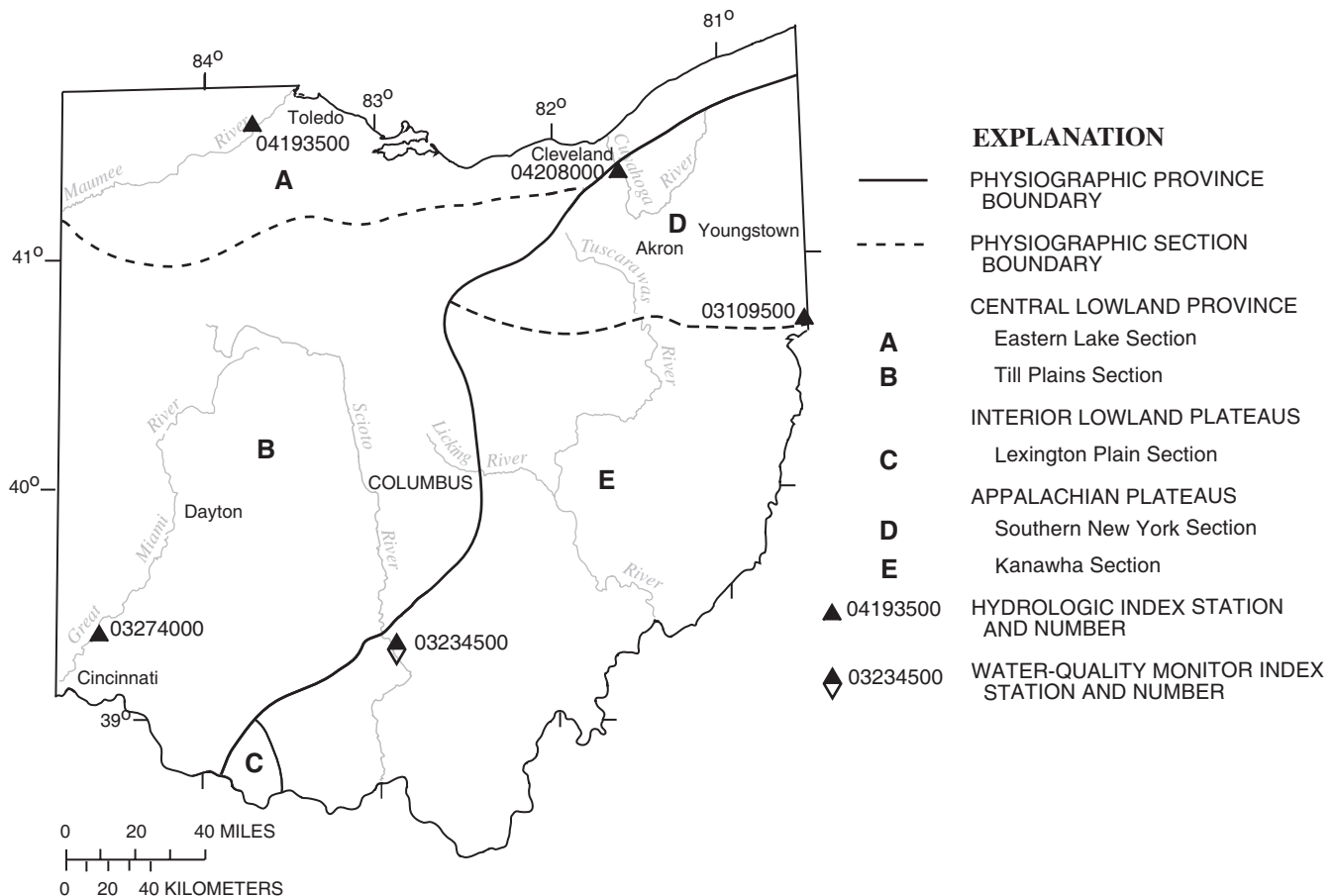


Figure 2. Physiographic divisions and location of hydrologic index stations.

contributions of snowmelt to streamflow in the early spring and the reduction in flows by evapotranspiration from June through September.

Surface Water

Streamflow

Streamflow-data-collection stations are distributed irregularly throughout the State and tend to be concentrated on the main river systems. The stations are used to sample a wide variety of conditions. The drainage areas range from less than four to more than 6,330 square miles and represent a wide diversity of topography and other physical characteristics. Streamflow ranges from unregulated to highly regulated.

Statewide Streamflow, Water Year 2005.

Streamflow conditions during water year 2005 were as follows:

October–January. At the beginning of water year 2005, streamflow was in the normal range in southwest Ohio and was above normal¹ elsewhere. Excessive flows prevailed statewide in response to above-average precipitation through the period. Heavy rain and snowmelt in early January produced significant flooding across much of the State. Peak flows in some basins were the highest since 1964.

February–April. Streamflow fell into the normal range in February and March due to below-average precipitation. Streamflow fell into the below-normal range by April.

May–June. Above-average precipitation in late April produced excessive flows that persisted through June.

July. Streamflow returned to the normal range in response to near-average precipitation.

August–September. Above-average precipitation statewide produced excessive flows throughout the period. At the end of water year 2005, streamflow was in the normal range in southwest Ohio and above normal elsewhere.

A comparison of streamflows for 2005 with long-term median flows at four representative stations is shown in figure 3.

Water Quality

Water-quality data in Ohio are collected on a short-term basis in conjunction with local or regional studies. On a long-term basis, water-quality data in Ohio are collected at fixed stations. The only active long-term monitoring program in Ohio is the National Water-Quality Assessment (NAWQA) Program, a program designed to assess the status and trends in the quality of ground- and surface-water resources in major hydrologic systems (study units) of the United States. Sampling in NAWQA began in 1991 in the Nation and in March 1996 at some sites in Ohio as part of the Lake Erie-Lake St. Clair (LERI) study unit. Sampling began in 1999 at some sites as part of the Great Miami and Little Miami River Basins (MIAM) study unit. In 2001, watersheds in the MIAM study unit were combined with those in the White River Basin study unit in Indiana to form the White and Great and Little Miami River Basins (WHMI) study unit. During 2005, the WHMI NAWQA was not sampled. The LERI NAWQA was in its low-intensity data-collection phase during 2005; water-quality data were collected at two fixed stations six times per year. Samples at NAWQA sites are collected over a range of streamflows and are analyzed for major anions and cations, nutrients, pesticides, suspended sediment, and selected physical properties.

Several continuous years of water-quality data collected as part of the NAWQA program for two sites—the Auglaize River at Fort Jennings and the Maumee River at Waterville—are shown in figures 4 and 5. Streamflows and concentrations of selected constituents measured during the previous 9-year period (1996 to 2004) are shown in boxplots, along with results of analysis of samples collected in water year 2005.

The values for streamflow measured at the time of water-quality sampling during 2005 were similar to those found in the previous 9-year period. For the Auglaize River, two samples were collected at low flow during 2005 (below the 25th percentile for the previous 9-year period), three were collected at moderate flow (between the 25th and 75th percentiles), and one was collected at high flow (above the 75th percentile). For the Maumee River, two samples were collected at low flow, three at moderate flow, and one at high flow.

¹ In this report, “normal” is defined as being between the 25th and 75th percentiles of measured values for a base or reference period. For streamflow, the base period is 1971–2000; for ground water, the reference period is 1951–2000.

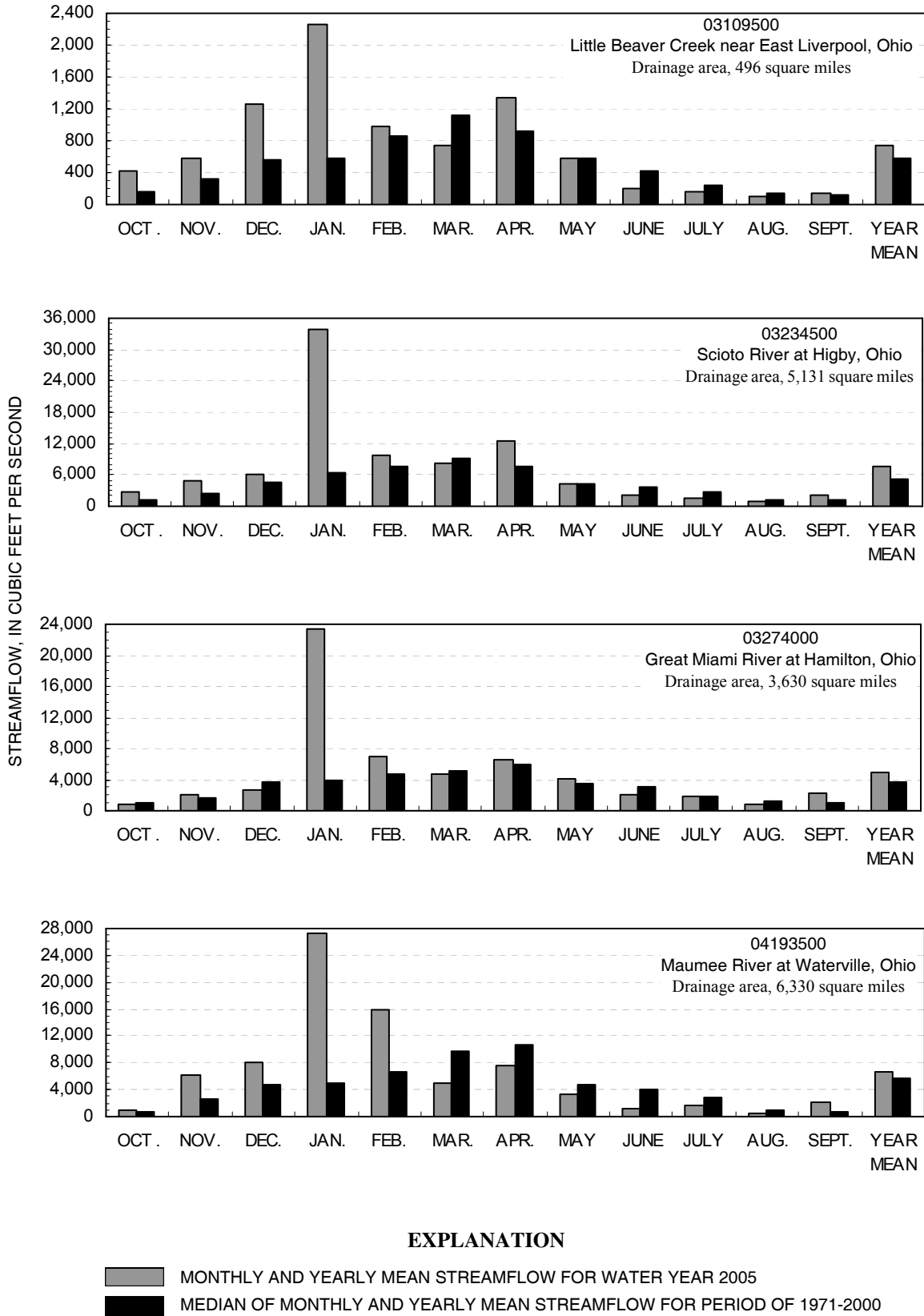


Figure 3. Streamflow during water year 2005 compared with median streamflow for period 1971–2000 for four representative gaging stations.

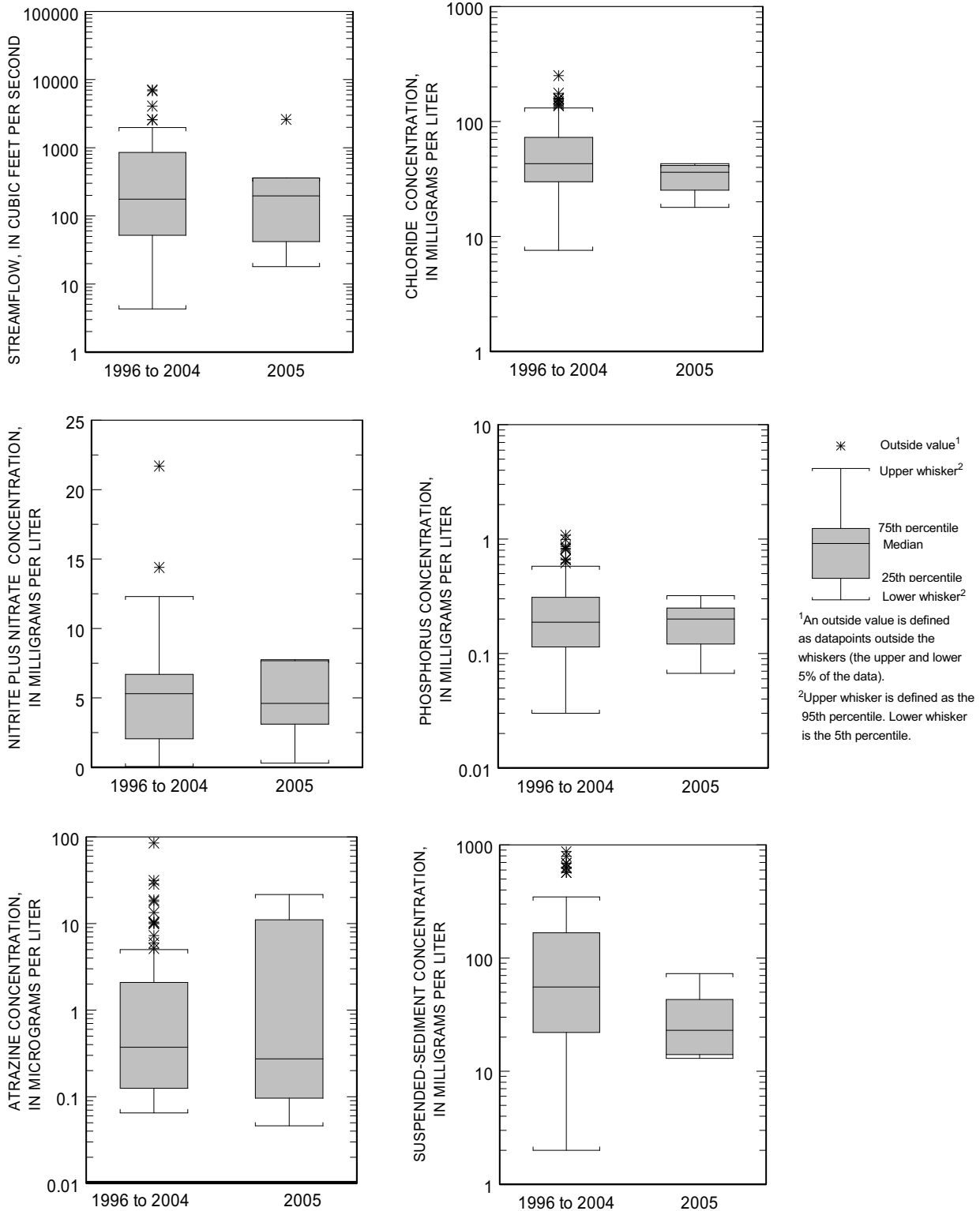


Figure 4. Streamflow and concentrations of selected constituents measured in water year 2005 and the distribution of those characteristics from measurements made during water years 1996–2004, Auglaize River near Ft. Jennings, Ohio.

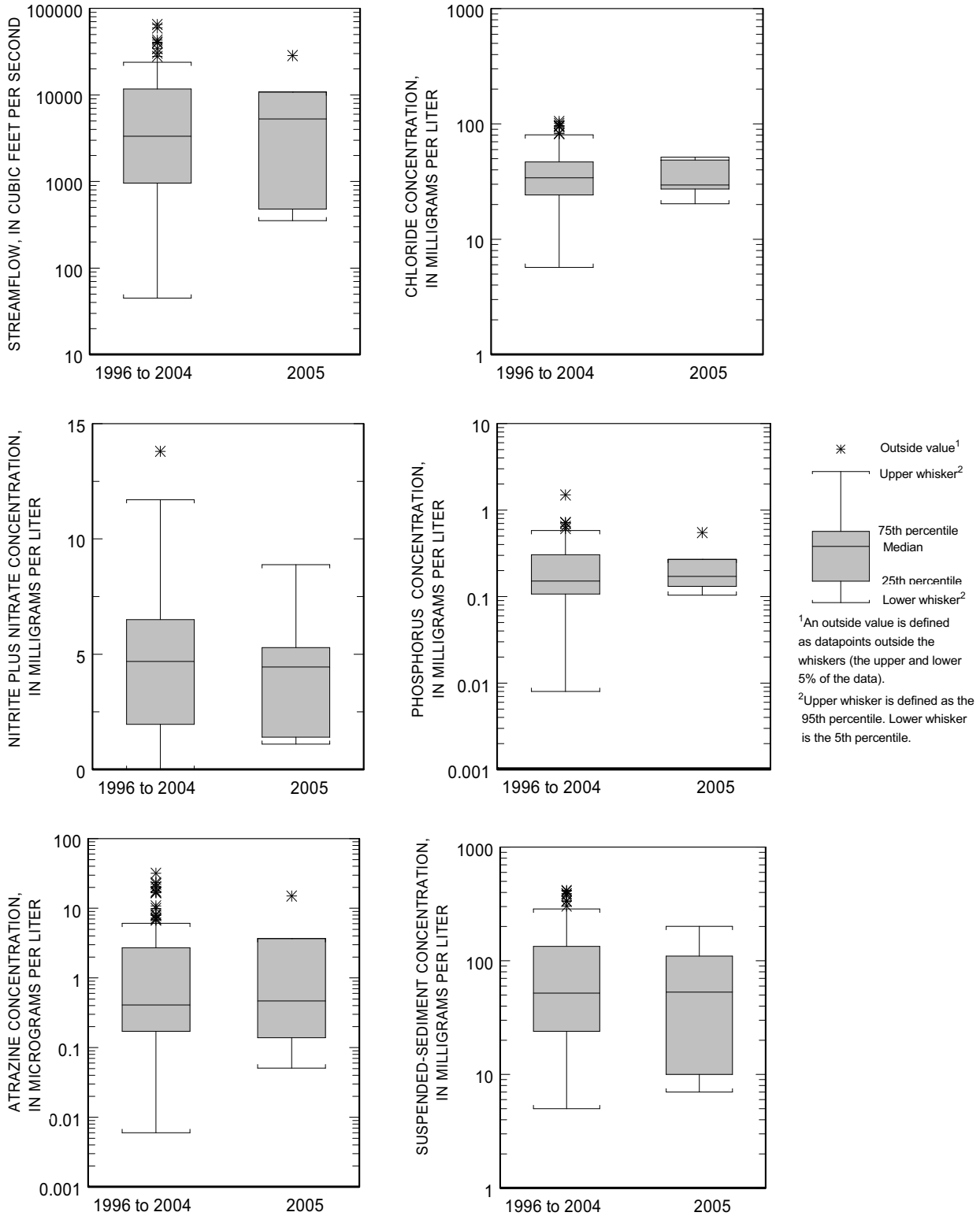


Figure 5. Streamflow and concentrations of selected constituents measured in water year 2005 and the distribution of those characteristics from measurements made during water years 1996–2004, Maumee River at Waterville, Ohio.

Elevated chloride concentrations are commonly associated with municipal or industrial point sources of wastewater. Chloride concentrations determined for the six samples in 2005 for the Auglaize River ranged from 17.9 to 43.0 milligrams per liter (mg/L) with a median of 36.2 mg/L. All chloride concentrations in 2005 were equal to or less than the median of the previous 9-year period (43.0 mg/L). For the Maumee River, chloride concentrations in 2005 ranged from 20.3 to 51.6 mg/L with a median of 29.6 mg/L; the median for the previous 9-year period was 34.2 mg/L.

None of the samples collected for nitrate plus nitrite during 2005 at these two sites exceeded the U.S. Environmental Protection Agency's Maximum Contaminant Level for finished drinking water (10 mg/L, as N). In Ohio, fertilizers are a major source of nitrate. Concentrations in the Auglaize River and the Maumee River in 2005 were in the same range as those found during the previous 9-year period.

Agricultural runoff and municipal and industrial point sources are the principal sources of phosphorus in Ohio. Increased phosphorus concentrations may lead to a high rate of plant-material production in water and eutrophication of the receiving water. During 2005, median concentrations of total phosphorus were 0.200 mg/L for the Auglaize River and 0.171 mg/L for the Maumee River. For the previous 9-year period of the Auglaize and Maumee Rivers, medians were similar (0.188 and 0.152 mg/L, respectively).

The Auglaize and Maumee Rivers drain areas of heavy herbicide use. Atrazine was detected in five out of six samples collected at the Auglaize River. Atrazine concentrations determined in 2005 for the Auglaize River ranged from 0.046 microgram per liter ($\mu\text{g/L}$) to 21.7 $\mu\text{g/L}$, with four out of five detections being <1 $\mu\text{g/L}$. Atrazine concentrations determined in 2005 for the Maumee River varied widely, ranging from 0.051 to 15.0 $\mu\text{g/L}$. One sample from the Auglaize River and two samples from the Maumee River exceeded the U.S. Environmental Protection Agency's Maximum Contaminant Level of 3 $\mu\text{g/L}$.

Elevated suspended-sediment concentrations result from periods of high streamflows and are exacerbated by increased development and agriculture. Suspended-sediment concentrations in the Auglaize River in 2005 were lower than those found during the previous 9-year period; the median value for 2005 was 23 mg/L, whereas the median for the previous period was 56 mg/L. At the Maumee River, concentrations during 2005 were similar to concentrations measured during 1996–2004; median concentrations were 53 and 52 mg/L, respectively.

Ground Water

Ground water serves the needs of 46 percent of Ohio's population. An estimated 800 million gallons of ground water per day is withdrawn for public-supply, domestic, industrial, and agricultural purposes. Many people in Ohio depend on ground water as the only practical source of supply.

Ohio's unconsolidated aquifers are composed of either coarse- or fine-grained sediments. Both types are composed mainly of materials of glacial origin. The coarse-grained unconsolidated aquifers generally consist of highly permeable sand and gravel. Much of the sand and gravel is alluvium derived from glaciofluvial outwash along the courses of some modern streams; thus, these aquifers sometimes are referred to as "watercourse" aquifers. Coarse-grained unconsolidated aquifers in the northwestern corner of the State (fig. 6) underlie glacial till, are locally confined under artesian pressure, and are highly productive. Extensive kame-terrace deposits of water-bearing gravel and sand are widely used ground-water sources in northeastern Ohio. The fine-grained unconsolidated aquifers are similar to the coarse-grained unconsolidated aquifers in form and origin but are less permeable because of higher percentages of mixed fine sand, silt, and clay. Included in the fine-grained unconsolidated aquifers are tills that contain thin or localized stratified lenses of sand and gravel.

Ground-water supply for much of the unglaciated upland area of southeastern Ohio is from bedrock aquifers composed of shaly sandstone and thin limestone. These strata, which range from Mississippian to Permian in age, are dominated by low-yielding shales and shaly sandstones that include numerous coal-bearing strata. In some places, small water supplies are available from fractured coal beds. Several sandstone aquifers in northeastern Ohio are of regional extent and are major ground-water sources for individual and small public supplies. These include the Berea and Black Hand Sandstones of Mississippian age and several sandstone members of the Pottsville and Allegheny Formations of Pennsylvanian age. The Lake Erie coastline of northeastern Ohio is underlain by shale of Devonian and Mississippian age (fig. 6) that yields only small amounts of water to wells. Silurian-age limestone and dolomite and Devonian limestone comprise the carbonate aquifer system (fig. 6) of much of western Ohio. Glacial cover is uneven and consists of valley fill and terminal moraine in some places. The northeastern part of western Ohio contains an area of high-yielding wells that tap a preferentially weathered zone, which developed when a carbonate section was periodically exposed as land mass during the Paleozoic Era. The southwestern corner of Ohio near Cincinnati is underlain by shale and a thin limestone aquifer of Ordovician age. Away from the watercourse (coarse unconsolidated) aquifers that traverse the area, the rocks that form the uplands yield only very small amounts of ground water.

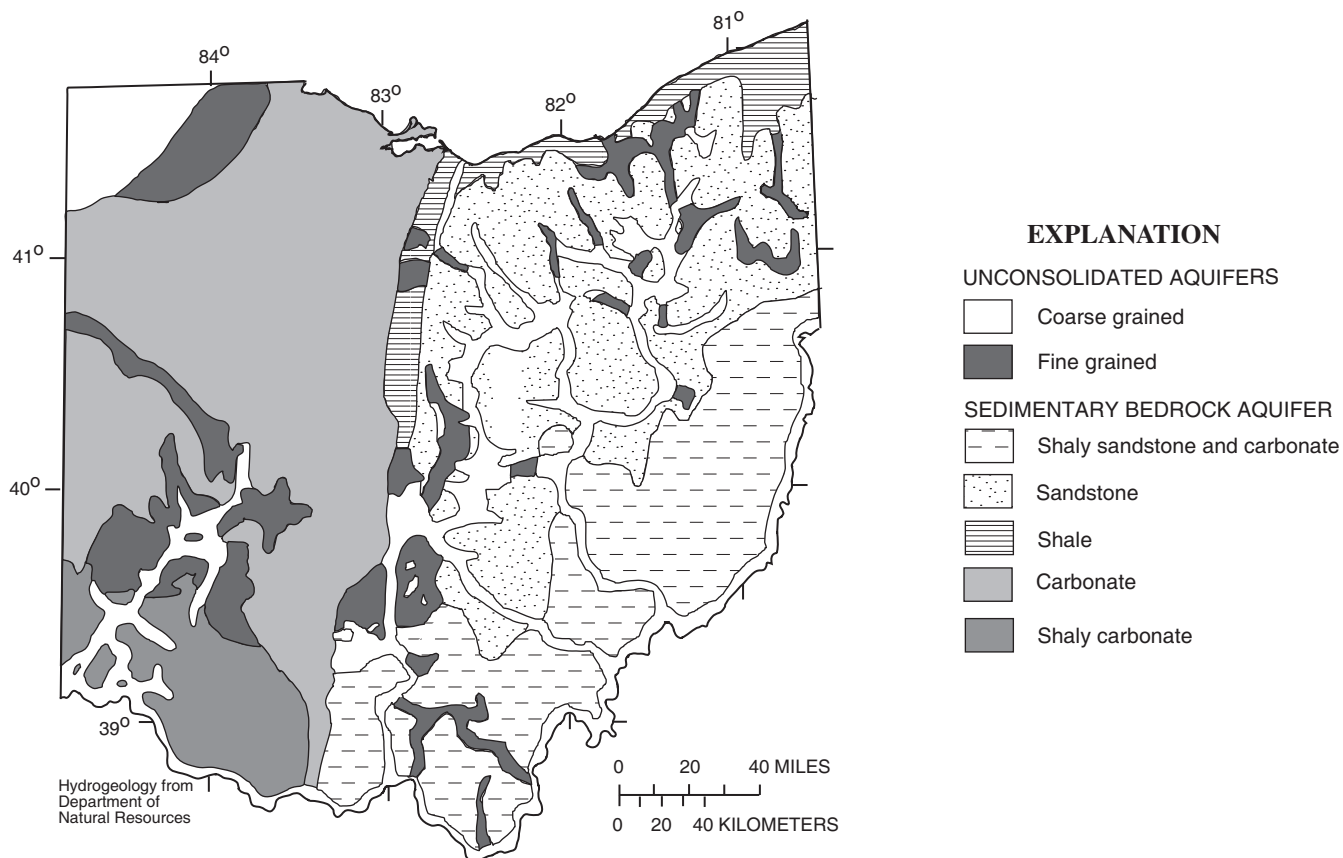


Figure 6. Geographic distribution of principal aquifers in Ohio.

Ground-Water Levels

Most ground-water observation wells in Ohio tap unconsolidated sand and gravel aquifers associated with the State's principal streams. Sample 1-year and 5-year hydrographs of a well completed in an unconfined unconsolidated sand-and-gravel aquifer are shown in figure 7. The observation-well network also includes some bedrock wells in areas where consolidated aquifers are heavily used for water supply, such as in the carbonate-rock region of northwestern Ohio. Sample 1-year and 5-year hydrographs of a well completed in a confined carbonate-rock aquifer are shown in figure 8. The yearly low for most wells occurs during the winter months, especially in cold, dry years or near the end of the growing season. Highs for the year usually occur from March through June, which is the peak of the recharge season. The yearly water-level fluctuation due to climatic conditions in water-table and confined-aquifer wells is commonly 3 to 5 feet but can be as much as 10 feet.

Ground-water conditions in Ohio during water year 2005 were as follows:

October–January. At the beginning of water year 2005, ground-water levels were generally above normal throughout Ohio except for unconsolidated aquifers in the southwest, where levels

were below normal. Ground-water levels rose throughout the period due to above-average precipitation. Above-normal levels prevailed except in southwest Ohio, where ground-water levels remained below normal. Heavy rainfall and snowmelt in January produced significant rises throughout the State, and levels were generally above normal statewide.

February–March. There were general declines in ground-water levels statewide due to below-average precipitation. Levels remained above normal except in southwest Ohio, where they fell into the below-normal range.

April. Above-average precipitation in April produced net rises throughout the State, and ground-water levels remained above normal except in southwest Ohio.

May–September. Seasonal declines prevailed throughout the period. Ground-water levels in unconsolidated aquifers in southern Ohio were below normal for the entire period. Levels in the rest of Ohio fell from above normal to near normal by July. Seasonal declines continued, and levels were generally below normal statewide at the end of water year 2005.

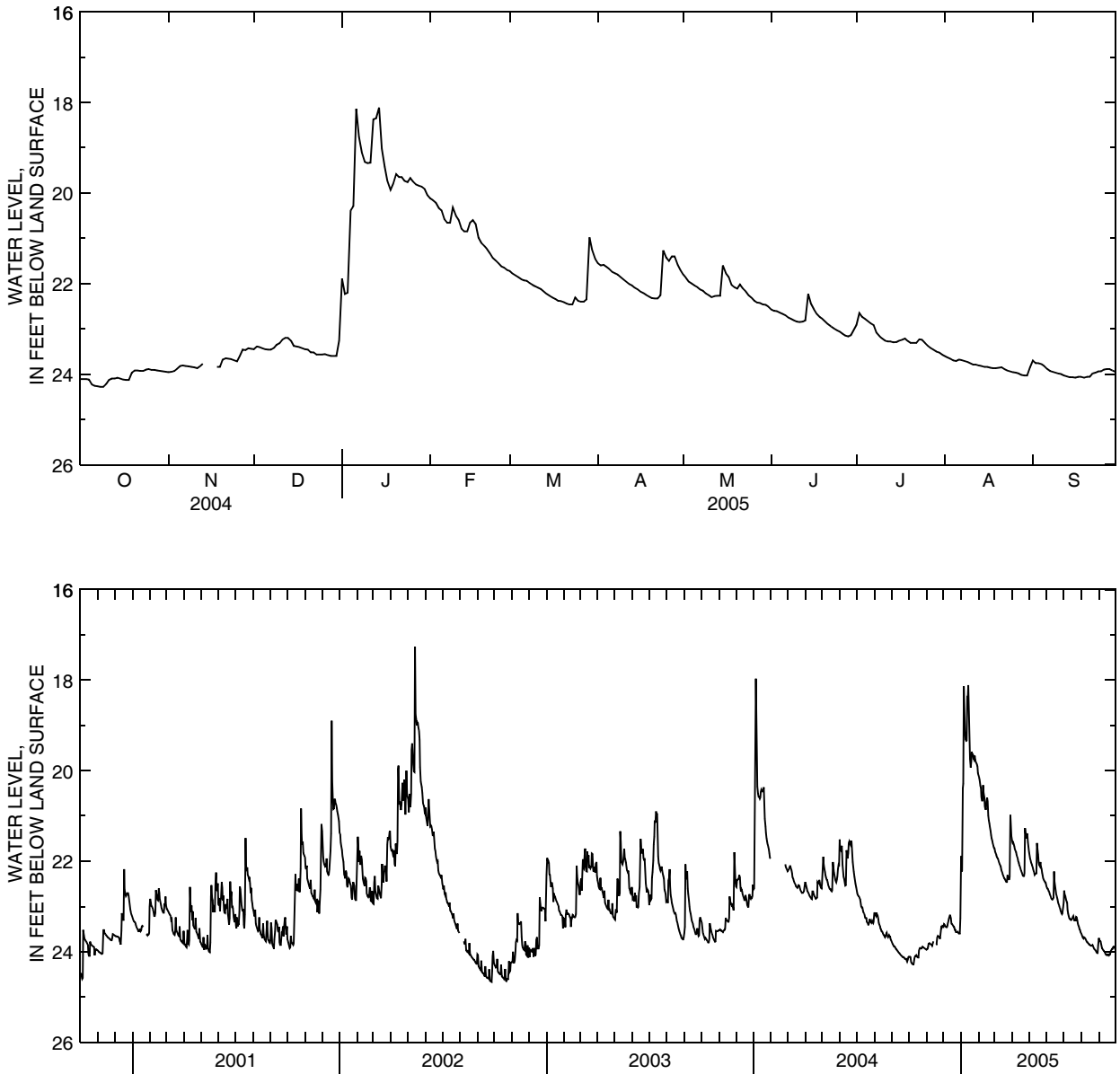


Figure 7. Sample of 1-year and 5-year hydrographs of well H-1 (391717084393300), completed in an unconfined unconsolidated aquifer.

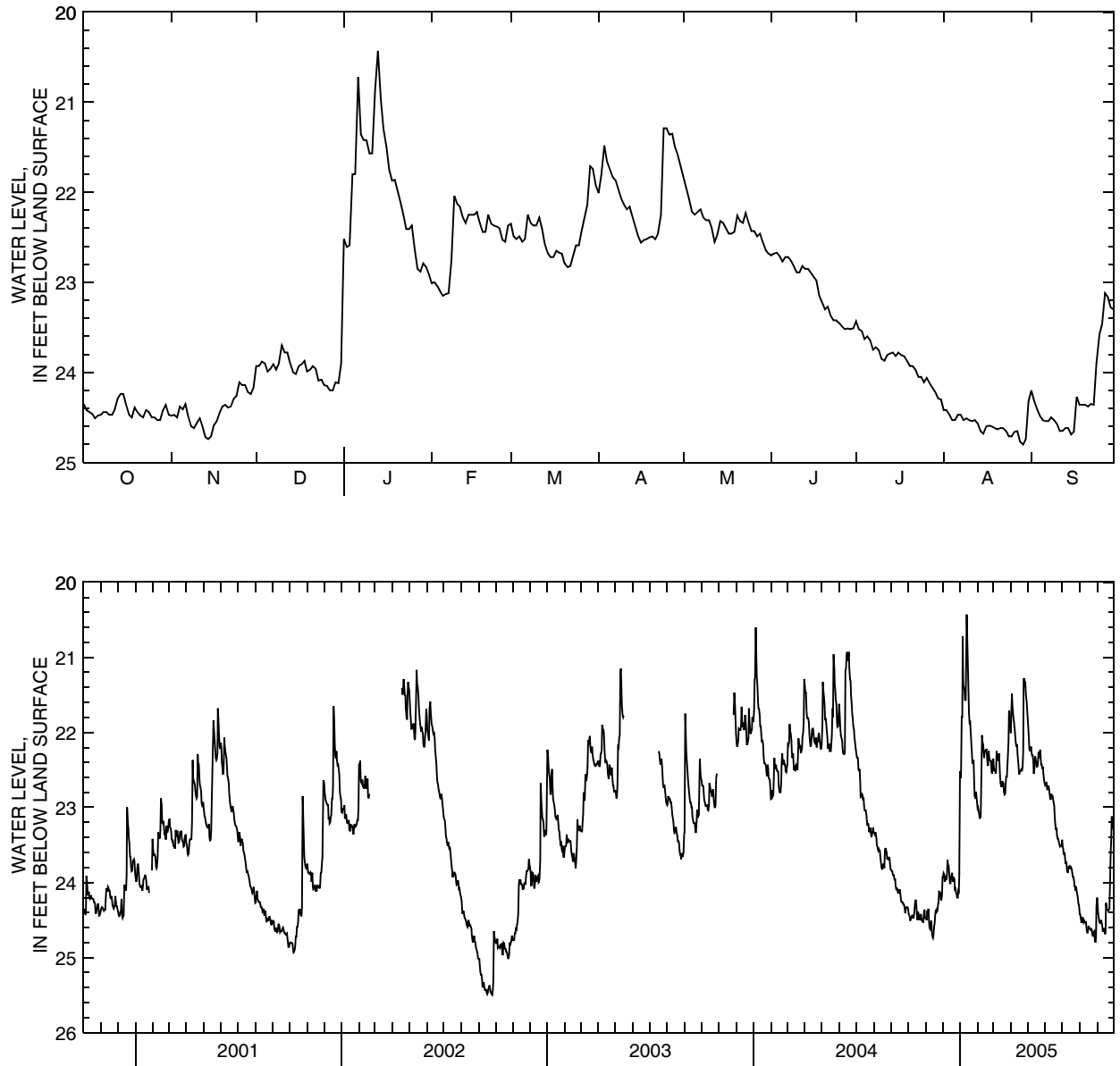


Figure 8. Sample of 1-year and 5-year hydrographs of well U-4 (401826083255200), completed in a confined carbonate-rock aquifer.

Downstream Order and Station Number

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of 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 entering between two main-stream stations is listed between those stations. 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 located with respect to the stream to which it is immediately tributary is indicated by an indentation in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, 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 composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

Numbering System for Wells and Miscellaneous Sites

The USGS well and miscellaneous site-numbering system 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, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 9). 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.

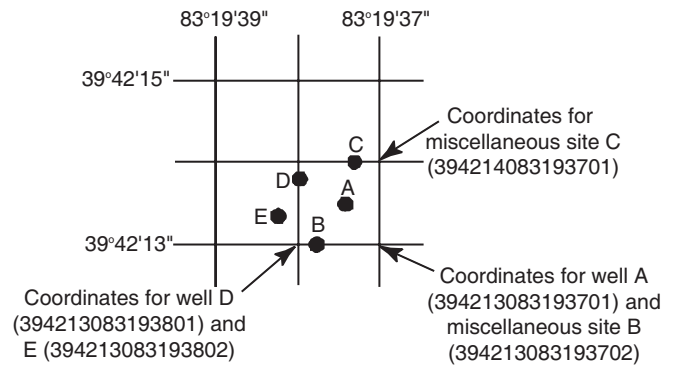


Figure 9. System for numbering wells and miscellaneous sites (latitude and longitude).

Special Networks and Programs

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from <http://ny.cf.er.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on

the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from <http://bqs.usgs.gov/acidrain/>.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities for collaboration among the agencies. Additional information about the NAWQA Program may be accessed from <http://water.usgs.gov/nawqa/>.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the

program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from <http://water.usgs.gov/nsip/>.

Explanation of Stage- and Water-Discharge Records

Data Collection and Computation

The base data collected at gaging stations (fig. 1a and 1b) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume 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 a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from <http://water.usgs.gov/pubs/twri/>. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors that are based on individual discharge measurements and notes by engineers and observers are used when 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 controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence 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 at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations, and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, the stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. 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 from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or 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 changes are 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 stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the 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 from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

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

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

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of

the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (<http://water.usgs.gov/nwis/nwis>). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the USGS Water Science Center (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __ - __, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __ - __, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated

in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the

water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-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.

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

Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e—Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

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 degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values 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 ft³/s; to the nearest tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to three significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values 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, values 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 Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Water Science Center. Also, most stream-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 USGS Water Science Center. (See address that is shown on the back of the title page of this report.)

Explanation of Precipitation Records

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol “---” in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the
EXPLANATION OF STAGE- AND WATER-

DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

Explanation of Water-Quality Records

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-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, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRI, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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 (and sometimes mean or median values) for each constituent measured and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

Surface-Water-Quality Records

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

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

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on quality of surface water appear in this report are shown in figures 1a and 1b.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. (See table on the following page.) The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating the accuracy of continuous water-quality records

[\leq , less than or equal to; \pm , plus or minus value shown; $^{\circ}\text{C}$, degree Celsius; $>$, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured field parameter	Ratings of accuracy (Based on combined fouling and calibration drift corrections applied to the record)			
	Excellent	Good	Fair	Poor
Water temperature	$\leq \pm 0.2^{\circ}\text{C}$	$> \pm 0.2 - 0.5^{\circ}\text{C}$	$> \pm 0.5 - 0.8^{\circ}\text{C}$	$> \pm 0.8^{\circ}\text{C}$
Specific conductance	$\leq \pm 3\%$	$> \pm 3 - 10\%$	$> \pm 10 - 15\%$	$> \pm 15\%$
Dissolved oxygen	$\leq \pm 0.3\text{ mg/L}$ or $\leq \pm 5\%$, whichever is greater	$> \pm 0.3 - 0.5\text{ mg/L}$ or $> \pm 5 - 10\%$, whichever is greater	$> \pm 0.5 - 0.8\text{ mg/L}$ or $> \pm 10 - 15\%$, whichever is greater	$> \pm 0.8\text{ mg/L}$ or $> \pm 15\%$, whichever is greater
pH	$\leq \pm 0.2$ units	$> \pm 0.2 - 0.5$ units	$> \pm 0.5 - 0.8$ units	$> \pm 0.8$ units
Turbidity	$\leq \pm 0.5$ turbidity units or $\leq \pm 5\%$, whichever is greater	$> \pm 0.5 - 1.0$ turbidity units or $> \pm 5 - 10\%$, whichever is greater	$> \pm 1.0 - 1.5$ turbidity units or $> \pm 10 - 15\%$, whichever is greater	$> \pm 1.5$ turbidity units or $> \pm 15\%$, whichever is greater

Arrangement of Records

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

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are collected. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3,

Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <http://water.usgs.gov/pubs/twri/>. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Water Science Center. (See address that is shown on the back of title page in this report.)

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the 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 diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Water Science Center.

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are 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 discharges 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 are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings

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

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

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

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

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

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered.

Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (<http://waterdata.usgs.gov/nwis>). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed output	Remark
E or e	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a nondetection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte either was not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this USGS Water Science Center are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the USGS Water Science Center.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this USGS Water Science Center are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte

concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Explanation of Ground-Water-Level Records

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

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 produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation).

Data Collection and Computation

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.

Most methods for collecting and analyzing water samples are described in the TWRI's referred to in the Onsite Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI's Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level 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 in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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 of 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 successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown and each well is identified by its local or county well number on a map in this report (figs. 1c and 1d).

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported

water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may affect the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words “to current year” if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

Ground-Water-Quality Data

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide.

Most methods for collecting and analyzing water samples are described in the TWRI, which may be accessed from <http://water.usgs.gov/pubs/twri/>. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4 and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Water Science Center. (See address shown on back of title page in this report.)

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed onsite. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

Access to USGS Water Data

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary

telemetry and historic daily mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from <http://water.usgs.gov>.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center. (See address that is shown on the back of the title page of this report.)

Definition of Terms

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) units. Other glossaries that also define water-related terms are accessible from <http://water.usgs.gov/glossaries.html>.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity.)

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff".)

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

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

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a “filtered” sample.

Annual runoff is the total quantity of water that is discharged (“runs off”) from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of poly-chlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

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

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also “Biomass” and “Dry mass”)

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas 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.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also “Peak flow”)

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also “Bedload” and “Sediment”)

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also “Bedload,” “Dry weight,” “Sediment,” and “Suspended-sediment discharge”)

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

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 mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (Cyanophyta) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu\text{m}^3/\text{mL}$). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu\text{m}^3/\text{cm}^2$). (See also “Phytoplankton” and “Periphyton”)

Bottom material (See “Bed material”)

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada’s first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average

biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3 \pi r^3 \quad \text{cone } 1/3 \pi r^2 h \quad \text{cylinder } \pi r^2 h$$

pi (π) is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$

From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that 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 volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See “Cubic foot per second-day”)

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

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 BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also “Biochemical oxygen demand (BOD)”]

***Clostridium perfringens* (*C. perfringens*)** is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also “Bacteria”)

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively

impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

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.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, 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 saltwater.

Cubic foot per second (CFS, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term “second-foot” sometimes is used synonymously with “cubic foot per second” but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, (ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also “Annual runoff”)

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also

“Sediment” and “Suspended-sediment concentration”)

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

Diatoms (Bacillariophyta) are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (µm³/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter (cells/cm²) or biovolume per square centimeter (µm³/cm²). (See also “Phytoplankton” and “Periphyton”)

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended

sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of “dissolved” constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the “residue-on-evaporation” method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n} ,$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth’s surface that contains a drainage system with a common outlet for its surface runoff. (See “Drainage area”)

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also “Ash mass,” “Biomass,” and “Wet mass”)

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also “Wet weight”)

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also “Substrate embeddedness class”)

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also “Bacteria”)

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (*E. coli*) are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform

group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (Euglenophyta) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also “Phytoplankton”)

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5° C plus or minus 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. (See also “Bacteria”)

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (Pyrrhophyta) are free-swimming unicells characterized by a red pigment spot. (See also “Phytoplankton”)

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic

Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term “stage,” although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

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

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae (Chlorophyta) are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating “moss” in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu\text{m}^3/\text{mL}$). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm²) or biovolume per square centimeter ($\mu\text{m}^3/\text{cm}^2$). (See also “Phytoplankton” and “Periphyton”)

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of

species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA Web site: <http://www.csc.noaa.gov/text/glossary.html> (See “High water”)

Hilsenhoff’s Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \frac{\sum(n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See “Datum”)

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

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

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also “Annual runoff”)

Instantaneous discharge is the discharge at a particular instant of time. (See also “Discharge”)

International Boundary Commission Survey

Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a “less than” (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term ‘non-detection value’ (NDV).

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_0 e^{-\lambda L} ,$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0} .$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the

principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See *NOAA Web site: <http://www.csc.noaa.gov/text/glossary.html>* (See “Low water”)

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

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

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

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

Method code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

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

Micrograms per kilogram (UG/KG, $\mu\text{g/kg}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

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

1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, $\mu\text{S/cm}$) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level."

Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA Web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88> (See “North American Vertical Datum of 1988”)

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also “Substrate”)

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of a living substance is the difference between dry mass and ash mass and represents actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also “Ash mass,” “Biomass,” and “Dry mass”)

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 meter (m²), acre, or hectare. 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 milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) 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, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (millimeters)	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
Cobble	>64–256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or percent of total 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, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of

pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are 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 commonly are known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 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. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

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

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [$\text{mg O}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg O}/(\text{m}^3/\text{time})$] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of

physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable is the amount of a given constituent that is in solution after a representative water sample has been extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Bed material”)

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms “return period” and “recurrence interval” do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See “Recurrence interval”)

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged (“runs off”) from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also “Annual runoff”)

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater has an average salinity of about 35 parts per thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as “fluvial sediment.” Sediment 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 affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with

latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also “Annual 7-day minimum” and “Recurrence interval”)

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive

isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See “Gage height”)

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

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

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment::

- 0 < no gravel or larger substrate.
- 1 > 75 percent.
- 2 51–75 percent.
- 3 26–51 percent.
- 4 5–25 percent.
- 5 < 5 percent.

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

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

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to 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 filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Suspended”)

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (See also “Sediment”)

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 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

Suspended solids, total residue at 105° C concentration is the concentration of inorganic and organic material retained on a filter,

expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-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. 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 directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

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

Kingdom: Animal
 Phylum: Arthropoda
 Class: Insecta
 Order: Ephemeroptera
 Family: Ephemeridae
 Genus: *Hexagenia*
 Species: *Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The

more general term “temperature recorder” is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) 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 determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-

Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also “Bacteria”)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as “total sediment discharge,” “total chloride discharge,” and so on.

Total in bottom material is the 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 length (fish) is the straight-line distance from the anterior point of a fish specimen’s snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also “Organism count/volume”)

Total recoverable is the amount of a given constituent in a whole-water sample after a 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 for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also “Bedload,” “Bedload

discharge,” “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also “Sediment,” “Suspended-sediment load,” and “Total load”)

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889–00 Standard test method for turbidity of water, *in* ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400-680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780-900 nm, also with varying light detection

configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400-680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400-680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400-680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400-680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400-680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780-900 nm] or monochrome light source, 30 ± 15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780-900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780-900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units

per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See “Water-table aquifer”)

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Vertical datum (See “Datum”)

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the “2002 water year.”

Watershed (See “Drainage basin”)

WDR is used as an abbreviation for “Water-Data Report” in the REVISED RECORDS paragraph

to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for “Water-Resources Data” in reports published prior to 1976.)

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

Wet mass is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

WSP is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

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

Surface-Water Records—Beaver River Basin

03091500 Mahoning River at Pricetown, Ohio

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

DRAINAGE AREA.—273 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Aug. 14, 1929, nonrecording gage at same site and datum.

REMARKS.—Records good. Flow regulated by Berlin Lake beginning 1942 and Milton Reservoir 1923. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 6,770 ft³/s Jan. 25, 1937, gage height, 15.01 ft, from rating curve extended above 4,200 ft³/s on basis of velocity-area studies.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	129	635	921	1510	380	60	1210	173	143	151	153
2	1150	129	784	922	1550	380	69	861	173	143	151	152
3	1150	129	968	1090	570	384	64	583	173	143	151	152
4	791	129	961	1210	310	384	140	583	173	144	151	152
5	326	129	955	930	211	380	192	415	173	146	154	151
6	162	129	954	722	210	380	192	259	179	147	153	152
7	145	129	953	1070	210	380	368	259	183	147	152	153
8	145	129	1080	1500	215	383	486	259	183	147	153	154
9	145	129	1160	1480	216	385	489	188	183	148	152	156
10	145	129	1160	1460	482	386	489	140	183	149	152	157
11	145	129	1150	1470	853	383	492	138	183	149	153	158
12	145	128	1150	1520	971	383	313	138	183	149	152	152
13	145	127	1150	1360	971	383	198	138	181	151	153	145
14	145	127	1140	1680	795	282	198	142	166	151	153	143
15	69	127	881	1970	845	154	198	139	158	152	152	141
16	74	143	708	1940	965	114	198	208	124	153	151	140
17	129	154	655	1930	1080	114	198	428	102	153	151	135
18	129	154	613	1910	1150	114	165	583	102	154	152	131
19	129	154	612	1910	1150	114	143	583	103	156	152	131
20	129	154	409	1630	1150	114	143	421	112	156	154	129
21	129	299	259	1610	1150	114	143	277	127	157	153	127
22	129	421	256	1710	1150	114	143	277	136	156	152	127
23	129	419	264	1730	1040	114	143	215	136	154	152	128
24	129	390	512	2000	777	114	144	173	138	154	152	126
25	129	369	711	2230	484	114	336	173	138	154	153	123
26	129	520	709	2220	380	114	648	173	138	155	153	127
27	129	630	1000	2220	380	114	916	173	138	155	152	123
28	129	629	1200	2210	380	116	1140	173	139	153	152	118
29	131	626	1180	2200	---	96	1210	173	140	152	152	119
30	131	623	1020	2150	---	70	1210	173	142	152	153	118
31	130	---	921	1890	---	60	---	173	---	152	156	---
TOTAL	8132	7613	26110	50795	21155	7117	10828	9828	4562	4675	4723	4173
MEAN	262	254	842	1639	756	230	361	317	152	151	152	139
MAX	1310	630	1200	2230	1550	386	1210	1210	183	157	156	158
MIN	69	127	256	722	210	60	60	138	102	143	151	118
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-2005, BY WATER YEAR (WY)												
MEAN	229	228	284	306	329	350	299	293	287	245	256	278
MAX	855	891	987	1639	1211	1098	867	1324	983	979	904	1248
(WY)	1991	1986	1997	2005	1959	1956	1994	1996	1947	2003	1958	2004
MIN	61.8	37.9	28.3	47.0	31.4	11.1	10.0	21.5	37.0	41.6	92.9	77.2
(WY)	1943	1966	1966	1966	1967	1944	1944	1943	1971	1982	1942	1942
SUMMARY STATISTICS												
ANNUAL TOTAL	FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR				WATER YEARS 1942-2005				
ANNUAL MEAN	211102			159711				438				
HIGHEST ANNUAL MEAN	577							282				
LOWEST ANNUAL MEAN								591				
HIGHEST DAILY MEAN	2170			May 25				131				
LOWEST DAILY MEAN	52			Mar 21				131				
ANNUAL SEVEN-DAY MINIMUM	75			Mar 15				0.40				
MAXIMUM PEAK FLOW				76				0.94				
MAXIMUM PEAK STAGE				2230				Feb 24				
INSTANTANEOUS LOW FLOW				2230				Apr 10				
10 PERCENT EXCEEDS				7.34				10.62				
50 PERCENT EXCEEDS				25				Apr 10				
90 PERCENT EXCEEDS				Oct 15				0.40				
	1550			1150				698				
	322			157				175				
	127			127				62				

03093000 Eagle Creek at Phalanx Station, Ohio

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

DRAINAGE AREA.—97.6 mi².

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

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

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

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	105	508	1750	e59	164	78	253	42	33	16	243
2	25	83	923	674	e58	146	592	154	39	22	15	52
3	26	199	359	702	e57	146	1850	129	38	19	14	32
4	26	209	212	1720	e57	180	963	116	37	17	14	25
5	25	340	151	1200	e56	124	630	100	36	17	20	22
6	24	249	128	1410	e65	134	307	82	35	17	29	21
7	23	144	192	1860	103	487	184	74	37	17	17	20
8	23	108	481	766	451	972	140	69	33	16	15	19
9	23	74	405	821	1250	e600	117	63	31	16	14	19
10	24	64	335	494	745	e370	104	59	29	15	14	19
11	24	54	302	448	e450	e150	86	61	32	15	14	18
12	25	50	243	1340	e150	125	75	61	32	14	14	18
13	27	44	265	2140	147	119	68	54	28	14	13	17
14	39	40	250	1220	205	102	63	274	28	14	14	17
15	51	37	186	827	737	107	59	585	37	16	16	17
16	55	38	152	295	537	118	55	210	36	18	15	18
17	64	38	144	191	586	138	53	109	37	17	14	20
18	55	51	126	156	290	e170	51	76	31	17	13	21
19	146	60	126	136	188	200	51	63	28	45	12	21
20	137	84	115	132	141	344	53	64	25	36	13	19
21	87	139	109	118	300	453	183	64	24	23	31	17
22	68	95	87	107	678	235	105	54	24	31	23	17
23	67	65	427	e94	489	164	448	53	25	42	16	21
24	119	60	1060	e87	296	190	767	75	21	23	14	26
25	185	226	e1400	e80	184	160	846	62	20	20	13	20
26	121	270	e900	e75	149	130	906	53	20	19	13	107
27	103	137	e600	e70	117	116	601	49	19	46	12	253
28	100	123	e450	e66	121	115	339	48	19	60	15	60
29	92	135	e350	e64	---	143	212	50	22	32	15	49
30	118	101	257	e62	---	114	189	47	33	22	16	70
31	130	---	716	e60	---	95	---	46	---	18	321	---
TOTAL	2058	3422	11959	19165	8666	6811	10175	3257	898	731	795	1298
MEAN	66.4	114	386	618	310	220	339	105	29.9	23.6	25.6	43.3
MAX	185	340	1400	2140	1250	972	1850	585	42	60	321	253
MIN	23	37	87	60	56	95	51	46	19	14	12	17
CFSM	0.68	1.17	3.95	6.33	3.17	2.25	3.48	1.08	0.31	0.24	0.26	0.44
IN.	0.78	1.30	4.56	7.30	3.30	2.60	3.88	1.24	0.34	0.28	0.30	0.49
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926-2005, BY WATER YEAR (WY)												
MEAN	46.3	85.4	141	167	198	234	202	127	73.8	52.7	31.9	43.0
MAX	338	458	511	618	469	436	550	359	330	452	172	409
(WY)	1927	1986	1991	2005	1981	1963	1957	1984	1989	2003	1956	1926
MIN	8.31	12.3	18.5	26.3	10.3	68.6	37.1	10.6	10.5	8.09	7.16	7.14
(WY)	1964	1954	1964	1961	1934	1931	1946	1934	1933	1934	1962	1964
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1926-2005
ANNUAL MEAN				70048				69235				
HIGHEST ANNUAL MEAN				191				190				116
LOWEST ANNUAL MEAN												190
HIGHEST DAILY MEAN				2080				May 22				2140
LOWEST DAILY MEAN				18				Aug 18				12
ANNUAL SEVEN-DAY MINIMUM				21				Aug 12				14
MAXIMUM PEAK FLOW												2640
MAXIMUM PEAK STAGE												12.35
INSTANTANEOUS LOW FLOW												13.71
ANNUAL RUNOFF (CFSM)				1.96				1.94				0.90
ANNUAL RUNOFF (INCHES)				26.70				26.39				16.15
10 PERCENT EXCEEDS				466				520				264
50 PERCENT EXCEEDS				114				68				45
90 PERCENT EXCEEDS				25				17				14

^a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

^e Estimated.

03094000 Mahoning River at Leavittsburg, Ohio

LOCATION.—Latitude 41°14'21", longitude 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, Ohio, 300 ft downstream from Duck Creek, and 1.2 mi downstream from Eagle Creek.

DRAINAGE AREA.—575 mi².

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, National Geodetic Vertical Datum of 1912. Prior to July 2, 1941, nonrecording gage; July 2, 1941-July 22, 1952, water-stage recorder, at site 50 ft downstream at same datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Flow regulated by Berlin Lake, 25 mi upstream, beginning in 1942, by Milton Reservoir, 17 mi upstream, and by Michael J. Kirwan Reservoir, 20 mi upstream on West Branch, beginning in 1966. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 20,300 ft³/s Jan. 22, 1959, gage height, 19.37 ft; minimum daily, 60 ft³/s July 6, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 26, 1913 reached a stage of about 24 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	276	1640	3540	1820	788	311	1860	314	335	292	874
2	1350	265	2400	2550	1210	800	1230	1700	308	320	297	395
3	1300	303	1770	2450	953	720	4120	1170	303	309	294	312
4	1250	370	1390	4610	768	679	2960	1020	301	306	292	287
5	763	465	1290	4540	549	683	1690	899	299	309	342	276
6	449	475	1250	4750	538	720	1130	586	305	325	368	271
7	307	355	1290	5150	576	1260	840	499	312	312	321	273
8	281	307	1680	3880	1170	1830	922	481	307	306	303	274
9	256	284	1890	4140	2490	1480	868	462	303	303	298	273
10	240	271	1870	3370	2100	800	753	368	303	300	294	270
11	238	264	1820	3020	1550	730	714	349	302	300	294	270
12	237	259	1630	4660	1520	673	677	345	303	298	294	270
13	238	255	e1400	6420	1480	655	458	326	300	303	295	260
14	242	248	e1300	4950	1530	614	401	870	304	309	303	243
15	240	246	e1150	4240	2240	479	388	1560	342	306	302	250
16	173	247	1120	3330	2510	400	379	987	334	330	299	261
17	211	261	1060	2970	2670	420	374	753	271	289	283	262
18	239	271	941	2820	2270	442	368	922	257	277	284	261
19	293	279	920	2760	1910	473	317	917	259	381	286	261
20	318	328	812	2620	1660	620	301	889	272	380	298	258
21	280	414	528	2190	1870	938	376	600	285	318	358	254
22	259	556	461	2230	2620	673	435	542	308	303	350	253
23	247	544	1140	2260	2240	517	705	532	310	343	304	257
24	275	541	2600	2290	1640	599	1460	480	311	333	292	257
25	297	742	2430	2600	1120	569	1730	432	314	318	292	254
26	285	845	1960	2730	814	479	2070	402	306	314	290	407
27	265	839	e1670	2740	722	428	2140	361	306	427	289	658
28	250	812	e1600	2710	699	435	1980	333	307	480	294	362
29	248	830	e1580	2530	---	578	1760	329	307	340	292	291
30	288	784	1580	2430	---	439	1720	327	324	293	308	326
31	305	---	2380	2340	---	351	---	322	---	280	803	---
TOTAL	13304	12936	46552	103820	43239	21272	33577	21623	9077	10047	9911	9420
MEAN	429	431	1502	3349	1544	686	1119	698	303	324	320	314
MAX	1680	845	2600	6420	2670	1830	4120	1860	342	480	803	874
MIN	173	246	461	2190	538	351	301	322	257	277	283	243

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967-2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	442	570	832	825	819	907	875	727	575	453	395	520
MAX	1575	2077	2010	3349	2262	1909	2089	2267	2116	2398	1246	2039
(WY)	1991	1986	1978	2005	1990	1993	1994	1996	1989	2003	2003	2004
MIN	145	139	156	171	226	212	243	261	253	237	236	227
(WY)	1967	1992	1992	1992	1992	1969	1986	1992	1988	1988	1967	1967

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1967-2005	
ANNUAL TOTAL	404874		334778			
ANNUAL MEAN	1106		917		661	
HIGHEST ANNUAL MEAN					1174	
LOWEST ANNUAL MEAN					367	
HIGHEST DAILY MEAN	6610	May 23	6420	Jan 13	9580	Jul 23
LOWEST DAILY MEAN	173	Oct 16	173	Oct 16	106	Oct 30
ANNUAL SEVEN-DAY MINIMUM	226	Oct 11	226	Oct 11	116	Oct 26
MAXIMUM PEAK FLOW			6750	Jan 13	11600	Jul 23
MAXIMUM PEAK STAGE			13.39	Jan 13	17.16	Jul 23
INSTANTANEOUS LOW FLOW					106	Oct 30
10 PERCENT EXCEEDS	2320		2360		1550	
50 PERCENT EXCEEDS	826		420		359	
90 PERCENT EXCEEDS	286		265		212	

e Estimated.

03097550 Mahoning River at Ohio Edison Power Plant at Niles, Ohio

LOCATION.—Latitude 41°10'21", longitude 80°45'26", Trumbull County, Hydrologic Unit 05030103, on right bank 20 ft downstream from Conrail Spur Line, 100 ft downstream from Meander Creek, 0.2 mi upstream from Belmont Road, 0.4 mi. downstream from Mosquito Creek in Niles, Ohio.

DRAINAGE AREA.—854 mi².

PERIOD OF RECORD.—October 1987 to current year.

GAGE.—Water-stage recorder. Datum of gage is 843.08 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Water diverted upstream from station for municipal supply for cities of Niles, Warren, and Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 37 mi upstream, beginning in 1942, by Milton Reservoir, 29 mi upstream, by Michael J. Kirwan Reservoir, 32 mi upstream on West Branch, beginning in 1966 by Mosquito Creek Lake, 11 mi upstream, beginning in 1943, by Meander Creek Reservoir. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2320	360	e2330	3790	2380	1100	433	2720	373	434	335	1300
2	2040	e357	3130	3410	1730	1110	2540	2440	346	379	365	693
3	1960	450	2440	3140	1370	1000	5710	1780	336	342	370	412
4	1930	552	1780	5640	1160	917	5240	1330	327	332	366	349
5	1440	682	1520	6150	889	911	3080	1100	315	357	e700	323
6	1160	712	1420	7450	761	959	1960	753	329	451	e640	309
7	1090	536	1520	6920	800	1620	1350	599	329	406	e570	319
8	1040	427	2120	5280	1860	2580	1310	578	325	385	e540	342
9	1010	385	2370	5300	3480	2240	1230	562	349	375	e460	343
10	986	362	2530	4420	3150	1220	1130	473	314	371	391	317
11	980	347	2440	3890	2190	1000	1090	430	311	357	389	313
12	976	343	2100	6260	1990	880	1060	406	312	349	381	314
13	1040	341	2000	7970	1940	820	842	381	308	337	380	319
14	1050	335	1940	7300	2030	754	723	e900	406	396	433	306
15	987	329	1790	5150	2950	618	675	e1800	543	424	395	304
16	716	329	1410	4130	3300	524	582	e1200	445	513	351	336
17	504	343	1250	3570	3550	526	559	e1120	373	429	336	344
18	438	366	1150	3320	3060	569	548	e1090	324	380	326	336
19	512	378	1100	3280	2520	612	448	1030	311	535	350	315
20	515	457	1080	3200	2240	877	372	1010	317	565	376	303
21	440	546	805	2860	2600	1420	452	756	329	441	497	299
22	373	648	648	2760	3440	1130	570	612	338	378	460	302
23	346	676	2000	2800	3090	832	1260	634	345	380	403	369
24	444	683	3810	2780	2400	1080	2520	616	344	417	351	333
25	431	967	2990	2990	1790	1020	3240	516	346	388	e344	318
26	400	1130	2390	3130	1370	784	3150	452	339	374	338	700
27	348	1030	1710	3130	1180	660	3470	409	342	727	339	1020
28	328	1050	1690	3090	1050	670	3010	416	e330	838	378	674
29	350	1050	1750	3000	---	915	2520	387	e335	545	350	520
30	368	1030	1910	2880	---	739	2520	410	e340	378	370	467
31	400	---	2860	2760	---	566	---	506	---	337	1200	---
TOTAL	26922	17201	59983	131750	60270	30653	53594	27416	10381	13320	13484	12899
MEAN	868	573	1935	4250	2152	989	1786	884	346	430	435	430
MAX	2320	1130	3810	7970	3550	2580	5710	2720	543	838	1200	1300
MIN	328	329	648	2760	761	524	372	381	308	332	326	299
MED	716	454	1910	3410	2110	911	1250	616	336	385	378	334
CFSM	1.02	0.67	2.27	4.98	2.52	1.16	2.09	1.04	0.41	0.50	0.51	0.50
IN.	1.17	0.75	2.61	5.74	2.63	1.34	2.33	1.19	0.45	0.58	0.59	0.56
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988-2005, BY WATER YEAR (WY)												
MEAN	609	687	1002	1346	1215	1140	1274	1104	947	748	601	724
MAX	2074	1935	2736	4250	2853	2881	2946	3113	3117	3176	1545	2640
(WY)	1991	1993	1997	2005	1990	1993	1994	1996	1989	2003	2003	2004
MIN	247	212	272	268	333	421	540	293	293	370	392	326
(WY)	1989	1992	1992	1992	1992	2000	1988	1992	1992	1988	2001	2001
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1988-2005		
ANNUAL TOTAL				564297			457873					
ANNUAL MEAN				1542			1254			948		
HIGHEST ANNUAL MEAN										1637		
LOWEST ANNUAL MEAN										546		
HIGHEST DAILY MEAN				8600			7970			12600		
LOWEST DAILY MEAN				328			299			183		
ANNUAL SEVEN-DAY MINIMUM				338			316			196		
MAXIMUM PEAK FLOW							8260			13000		
MAXIMUM PEAK STAGE							11.59			15.42		
INSTANTANEOUS LOW FLOW										183		
ANNUAL RUNOFF (CFSM)				1.81			1.47			1.11		
ANNUAL RUNOFF (INCHES)				24.58			19.94			15.09		
10 PERCENT EXCEEDS				2920			3080			2310		
50 PERCENT EXCEEDS				1180			674			498		
90 PERCENT EXCEEDS				406			335			286		

e Estimated.

03098600 Mahoning River below West Avenue at Youngstown, Ohio

LOCATION.—Latitude 41°06'18", longitude 80°39'46", Mahoning County, Hydrologic Unit 05030103, on left bank 200 ft below West Avenue Bridge, 0.4 mi upstream from Spring Common Bridge, 0.6 mi downstream from Mill Creek, in Youngstown, Ohio.

DRAINAGE AREA.—978 mi².

PERIOD OF RECORD.—October 1987 to current year.

GAGE.—Water-stage recorder. Datum of gage is 824.10 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are fair. Water diverted upstream from station for municipal supply for city of Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station by a private company for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 49 mi upstream, beginning in 1942; by Milton Reservoir, 41 mi upstream; by Michael J. Kirwan Reservoir, 44 mi upstream on West Branch, beginning in 1966; by Mosquito Creek Lake, 23 mi upstream, beginning in 1943; by Meander Creek Reservoir, 12 mi upstream, beginning in 1929; and by reservoir on Squaw Creek, 6 mi upstream, and 2 small reservoirs on Mill Creek, 0.6 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2480	518	3120	4630	e3000	1370	661	3190	488	521	422	1600
2	2240	490	4010	4240	e2200	1370	4460	2840	438	448	453	831
3	2080	676	3030	4440	e1700	1240	8380	2110	420	396	451	507
4	2070	823	2100	8370	e1300	1150	7890	1610	413	393	445	412
5	1700	1000	1770	9270	e1000	1140	4500	1340	402	465	807	374
6	1300	992	1660	12100	e820	1210	2570	999	428	585	650	348
7	1220	756	1840	10200	e840	2160	1760	795	421	506	559	362
8	1150	593	2570	7990	e900	3410	1620	765	410	472	502	381
9	1110	515	2890	7420	e2000	2770	1520	733	430	458	478	378
10	1080	478	3310	5870	e5000	1520	1380	638	396	448	450	342
11	1070	451	3090	5160	e3000	1240	1320	591	460	441	445	335
12	1060	449	2560	9660	2330	1130	1270	547	467	432	436	334
13	1130	431	2410	11300	2260	1040	1080	509	414	415	428	328
14	1260	417	2280	10800	2580	967	934	2080	465	473	535	308
15	1160	407	2090	7170	3920	824	878	3010	648	472	456	306
16	919	403	1690	5380	4360	732	776	1980	526	622	411	384
17	647	420	1490	4390	4530	730	734	1270	465	523	390	375
18	511	487	1390	3960	3710	784	723	1220	372	467	372	349
19	751	489	1320	e3900	2930	828	637	1220	349	734	402	322
20	661	645	1280	e3800	2580	1200	552	1200	359	653	564	315
21	581	e700	1010	e3750	3320	1800	663	981	378	525	680	306
22	494	887	837	e3550	4320	1460	811	786	399	460	534	307
23	438	869	3430	e3550	3770	1220	1940	841	406	459	452	443
24	619	890	5220	e3600	2850	1530	3450	848	410	489	396	351
25	605	1370	3780	e3700	2120	1390	4390	691	401	466	388	322
26	562	1450	2890	e4000	1660	1110	4020	577	390	461	385	1340
27	478	1250	2030	e4700	1430	938	4760	506	387	1050	404	1230
28	434	1340	1930	e4800	1290	1030	3790	509	403	949	446	759
29	446	1320	2030	e4600	---	1260	2980	519	426	643	407	748
30	549	1200	2230	e4400	---	1050	3010	479	490	481	683	585
31	600	---	3340	e4200	---	816	---	631	---	432	2200	---
TOTAL	31405	22716	74627	184900	71720	40419	73459	36015	12861	16339	16631	15282
MEAN	1013	757	2407	5965	2561	1304	2449	1162	429	527	536	509
MAX	2480	1450	5220	12100	5000	3410	8380	3190	648	1050	2200	1600
MIN	434	403	837	3550	820	730	552	479	349	393	372	306

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988-2005, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	683	778	1167	1640	1395	1355	1559	1305	1101	902	689	859						
MAX	2303	2117	3184	5965	3323	3456	3502	3639	3693	4041	1916	3436						
(WY)	1991	1993	1997	2005	1990	1993	1994	1996	1989	2003	2003	2004						
MIN	264	222	312	302	432	517	684	437	377	430	419	346						
(WY)	1992	1992	1992	1992	1992	1992	1995	1992	1988	1988	1991	1991						

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1988-2005	
ANNUAL TOTAL	676620	596374		
ANNUAL MEAN	1849	1634	1118	
HIGHEST ANNUAL MEAN			1903	2004
LOWEST ANNUAL MEAN			643	1988
HIGHEST DAILY MEAN	12500 May 22	12100 Jan 6	15600 Jul 23	2003
LOWEST DAILY MEAN	403 Nov 16	306 Sep 15	181 Oct 17	1988
ANNUAL SEVEN-DAY MINIMUM	425 Nov 11	333 Sep 9	202 Nov 24	1991
MAXIMUM PEAK FLOW		12800 Jan 6	15800 Jul 23	2003
MAXIMUM PEAK STAGE		14.05 Jan 6	17.49 Jul 23	2003
INSTANTANEOUS LOW FLOW			181 Oct 17	1988
10 PERCENT EXCEEDS	3320	3980	2610	
50 PERCENT EXCEEDS	1340	841	581	
90 PERCENT EXCEEDS	507	402	336	

e Estimated.

Surface-Water Records—Little Beaver Creek Basin

03109500 Little Beaver Creek near East Liverpool, Ohio

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

DRAINAGE AREA.—496 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	398	503	3170	950	e485	720	555	1350	303	247	87	582
2	381	458	2850	761	471	658	3530	987	273	158	80	251
3	369	542	1580	1320	466	572	4800	834	261	126	73	158
4	349	570	1150	3630	438	532	3430	732	253	113	68	121
5	324	710	947	3840	428	556	2550	647	241	195	78	102
6	309	620	830	10100	448	583	1680	593	225	531	116	90
7	288	521	934	6140	531	1060	1310	556	214	342	100	82
8	277	460	1490	3470	1250	2080	1100	516	196	203	85	77
9	267	406	1190	2940	2020	1220	906	474	184	155	80	79
10	259	373	2510	2040	1710	900	783	449	184	133	72	74
11	254	359	1880	2390	1060	823	699	430	480	120	68	72
12	248	391	1420	6110	861	772	628	505	366	111	62	68
13	256	383	1270	5040	796	706	580	421	259	105	60	65
14	474	342	1070	4360	1350	627	530	1110	215	106	59	62
15	474	319	901	3000	3050	602	488	1100	193	99	64	60
16	482	328	810	2010	1870	592	452	726	179	145	76	75
17	402	342	735	1610	1520	581	428	552	177	135	76	104
18	345	389	679	e1250	1100	569	411	471	169	122	65	81
19	876	454	685	e1100	840	548	398	421	159	113	61	71
20	652	665	585	e980	768	599	404	445	149	103	58	66
21	483	630	592	e880	927	708	639	425	140	91	67	63
22	413	549	589	838	1030	596	523	372	133	82	71	58
23	376	508	2100	e750	847	599	1300	416	126	80	64	77
24	492	527	2800	e720	754	906	1900	627	121	76	55	109
25	526	1090	1390	e680	676	773	2070	466	129	78	53	91
26	434	1080	1070	e630	650	695	1620	382	133	74	52	212
27	387	766	856	e580	607	634	2310	339	128	326	57	466
28	361	1010	774	568	621	690	1770	376	118	229	61	215
29	423	1020	727	e540	---	904	1260	438	289	145	66	e211
30	834	814	729	e530	---	697	1320	367	154	112	76	275
31	641	---	851	e505	---	614	---	345	---	96	1060	---
TOTAL	13054	17129	39164	70262	27574	23116	40374	17872	6151	4751	3170	4117
MEAN	421	571	1263	2267	985	746	1346	577	205	153	102	137
MAX	876	1090	3170	10100	3050	2080	4800	1350	480	531	1060	582
MIN	248	319	585	505	428	532	398	339	118	74	52	58
MED	387	515	947	1250	818	658	1000	471	184	120	68	82
CFSM	0.85	1.15	2.55	4.57	1.99	1.50	2.71	1.16	0.41	0.31	0.21	0.28
IN.	0.98	1.28	2.94	5.27	2.07	1.73	3.03	1.34	0.46	0.36	0.24	0.31
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916-2005, BY WATER YEAR (WY)												
MEAN	182	326	548	729	850	1100	922	661	398	262	188	175
MAX	1380	2102	2012	3993	1957	2493	2187	1876	1784	1554	1567	2156
(WY)	1955	1986	1991	1937	1956	1945	1940	1929	1989	1990	1980	2004
MIN	25.7	38.2	50.7	63.9	50.8	241	202	79.9	40.8	29.6	22.0	17.4
(WY)	1964	1931	1931	1931	1934	1969	1946	1934	1934	1930	1930	1932
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1916-2005		
ANNUAL TOTAL				375655			266734					
ANNUAL MEAN				1026			731			527		
HIGHEST ANNUAL MEAN										1047		
LOWEST ANNUAL MEAN										207		
HIGHEST DAILY MEAN				16800			10100			18900		
LOWEST DAILY MEAN				133			52			12		
ANNUAL SEVEN-DAY MINIMUM				159			58			12		
MAXIMUM PEAK FLOW							11800			25000		
MAXIMUM PEAK STAGE							12.42			17.40		
INSTANTANEOUS LOW FLOW							51			12		
ANNUAL RUNOFF (CFSM)				2.07			1.47			1.06		
ANNUAL RUNOFF (INCHES)				28.17			20.01			14.43		
10 PERCENT EXCEEDS				1840			1540			1240		
50 PERCENT EXCEEDS				660			482			254		
90 PERCENT EXCEEDS				265			77			52		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Yellow Creek Basin

03110000 Yellow Creek near Hammondsville, Ohio

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

DRAINAGE AREA.—147 mi².

PERIOD OF RECORD.—October 1940 to current year.

REVISED RECORDS.—WSP 1907: Drainage area.

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

REMARKS.—Records excellent except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	144	1370	208	e123	247	272	448	81	43	12	170
2	76	131	1050	171	e118	212	1520	324	74	28	11	75
3	73	199	680	276	116	185	1620	273	68	22	e9.4	49
4	68	211	483	1130	112	178	973	230	66	19	e8.8	37
5	65	265	368	1350	110	192	661	196	63	50	10	29
6	61	221	290	5080	117	197	508	191	59	83	13	25
7	61	199	276	2070	138	292	406	188	57	47	17	21
8	60	187	286	1080	326	471	343	173	53	33	21	18
9	58	159	243	767	514	358	277	152	47	27	41	17
10	58	143	546	593	488	300	247	139	46	23	21	16
11	58	133	456	746	341	274	210	130	45	20	15	15
12	55	148	387	2010	289	251	190	179	50	18	12	14
13	56	136	341	1210	251	220	173	139	46	17	e10	13
14	66	126	277	1410	437	193	155	207	42	20	e9.1	12
15	67	109	233	894	905	174	141	273	45	36	e8.4	11
16	67	103	209	641	616	169	152	199	43	35	e9.5	16
17	68	98	205	488	474	161	129	162	44	28	9.4	34
18	65	102	183	383	363	156	115	137	39	30	10	22
19	320	120	195	e344	284	148	114	123	34	28	9.6	16
20	173	251	157	e300	259	154	115	123	31	27	8.7	14
21	119	222	180	e270	319	145	207	117	34	20	23	13
22	96	193	162	e245	298	131	202	101	33	17	25	12
23	84	187	749	e220	256	148	486	100	29	15	14	13
24	114	191	763	e200	236	189	697	135	25	14	11	13
25	126	434	447	e185	223	176	762	110	23	13	9.1	16
26	102	399	340	e170	208	182	613	92	21	13	8.8	30
27	91	320	265	e157	189	176	1010	82	20	37	9.4	75
28	85	404	231	e149	205	275	691	90	23	38	26	41
29	88	364	216	e142	---	526	488	143	28	24	29	41
30	195	310	207	e135	---	404	519	101	35	17	90	44
31	185	---	209	e128	---	336	---	91	---	14	406	---
TOTAL	2943	6209	12004	23152	8315	7220	13996	5148	1304	856	917.2	922
MEAN	94.9	207	387	747	297	233	467	166	43.5	27.6	29.6	30.7
MAX	320	434	1370	5080	905	526	1620	448	81	83	406	170
MIN	55	98	157	128	110	131	114	82	20	13	8.4	11
CFSM	0.65	1.41	2.63	5.08	2.02	1.58	3.17	1.13	0.30	0.30	0.20	0.21
IN.	0.74	1.57	3.04	5.86	2.10	1.83	3.54	1.30	0.33	0.22	0.22	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941-2005, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1941	48.0	242	1991	4.92	1954	174	879	1991	10.8	1964	271	649	1956	23.6	1954
1942	95.7	611	1986	5.08	1992	228	747	2005	20.8	1977	340	848	1945	55.1	1969
1943	51.8	492	1980	3.95	1962	271	649	1956	23.6	1954	340	848	1945	55.1	1969
1944	51.6	795	2004	2.26	1999	271	649	1956	23.6	1954	340	848	1945	55.1	1969

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1941-2005
ANNUAL TOTAL	122209	82986.2	
ANNUAL MEAN	334	227	164
HIGHEST ANNUAL MEAN			333
LOWEST ANNUAL MEAN			73.9
HIGHEST DAILY MEAN	7820	5080	7820
LOWEST DAILY MEAN	39	8.4	0.80
ANNUAL SEVEN-DAY MINIMUM	56	9.2	0.80
MAXIMUM PEAK FLOW		6120	10500
MAXIMUM PEAK STAGE		10.02	12.98
INSTANTANEOUS LOW FLOW			0.80
ANNUAL RUNOFF (CFSM)	2.27	1.55	1.11
ANNUAL RUNOFF (INCHES)	30.93	21.00	15.13
10 PERCENT EXCEEDS	627	488	389
50 PERCENT EXCEEDS	198	137	78
90 PERCENT EXCEEDS	71	16	11

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Short Creek Basin

03111500 Short Creek near Dillonvale, Ohio

LOCATION.—Latitude 40°11'36", longitude 80°44'04", in sec. 30, T.4 N., R.2 W., Jefferson County, Hydrologic Unit 05030106, on right bank 350 ft downstream from bridge on State Highway 150, 2.1 mi east of Dillonvale, Ohio, 2.2 mi downstream from Jug Run, and 2.9 mi upstream from Little Short Creek.

DRAINAGE AREA.—123 mi².

PERIOD OF RECORD.—October 1941 to current year.

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

GAGE.—Water-stage recorder. Datum of gage is 675.1 ft above sea level (State of Ohio benchmark). Prior to Oct. 21, 1982, at datum 1.00 ft higher; prior to Oct. 21, 1941, nonrecording gage at same site at 676.1 ft datum.

REMARKS.—Record good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station. Water year 1986 streamflow records published in water year 1987 report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
1	164	184	1130	189	e197	262	273	264	124	66	32	163						
2	157	170	522	175	196	227	1650	226	116	53	30	83						
3	151	196	377	435	198	206	905	204	114	49	30	60						
4	144	198	306	713	198	194	572	189	112	47	29	49						
5	137	212	268	1830	198	201	433	177	106	50	32	42						
6	135	181	245	3730	208	241	370	170	104	62	50	38						
7	130	165	308	1150	233	302	330	164	106	54	36	36						
8	128	155	329	967	345	453	299	157	96	50	33	35						
9	126	144	292	684	368	294	266	148	92	47	32	34						
10	124	136	529	555	395	256	245	144	90	44	31	33						
11	122	133	359	788	283	250	226	154	88	41	28	32						
12	118	167	305	1610	260	244	211	242	88	39	27	31						
13	121	151	276	737	241	229	200	167	84	39	26	29						
14	126	136	247	1090	496	206	187	494	82	189	25	29						
15	125	130	223	640	611	196	179	344	94	82	26	28						
16	124	128	209	538	397	186	172	230	85	73	29	32						
17	117	127	203	469	322	177	166	191	82	60	31	33						
18	129	139	193	398	263	169	163	170	72	66	28	31						
19	381	311	191	396	231	162	157	159	68	69	27	30						
20	185	327	168	370	228	177	157	235	65	55	27	29						
21	151	249	202	e330	325	163	208	220	63	47	29	29						
22	136	216	181	e300	273	155	172	179	62	45	27	28						
23	128	204	634	e270	238	301	415	178	61	45	24	29						
24	152	223	404	e258	227	326	386	219	56	40	24	30						
25	137	311	259	e244	228	250	401	176	54	42	24	29						
26	127	249	235	e232	208	225	290	156	54	51	25	34						
27	121	221	208	e220	196	209	585	144	52	43	34	53						
28	118	314	202	e213	219	513	338	156	53	40	41	38						
29	224	264	195	e207	---	837	273	153	56	38	68	58						
30	390	237	192	e202	---	399	299	135	60	35	90	51						
31	237	---	196	e200	---	317	---	136	---	32	537	---						
TOTAL	4865	5978	9588	20140	7782	8327	10528	6081	2439	1693	1532	1256						
MEAN	157	199	309	650	278	269	351	196	81.3	54.6	49.4	41.9						
MAX	390	327	1130	3730	611	837	1650	494	124	189	537	163						
MIN	117	127	168	175	196	155	157	135	52	32	24	28						
CFSM	1.28	1.62	2.51	5.28	2.26	2.18	2.85	1.59	0.66	0.44	0.40	0.34						
IN.	1.47	1.81	2.90	6.09	2.35	2.52	3.18	1.84	0.74	0.51	0.46	0.38						
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-2005, BY WATER YEAR (WY)																		
MEAN	54.2	77.5	119	168	202	242	223	173	116	76.7	64.0	59.8						
MAX	195	515	414	650	459	725	488	391	422	331	610	618						
(WY)	1955	1986	1991	2005	1975	1945	1961	1967	1989	1990	1980	2004						
MIN	13.8	13.8	12.1	20.9	24.8	54.7	69.3	51.4	28.1	17.4	11.5	8.62						
(WY)	1954	1954	1944	1967	1954	1969	1946	1976	1988	1954	1945	1947						
SUMMARY STATISTICS																		
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1942-2005						
ANNUAL TOTAL					98178				80209									
ANNUAL MEAN					268				220				131					
HIGHEST ANNUAL MEAN													257					
LOWEST ANNUAL MEAN													46.1					
HIGHEST DAILY MEAN					3770	Jan 4			3730	Jan 6			3770	Jan 4		2004		
LOWEST DAILY MEAN					48	Aug 18			24	Aug 23			2.8	Sep 21		1947		
ANNUAL SEVEN-DAY MINIMUM					58	Aug 12			26	Aug 20			4.9	Dec 14		1943		
MAXIMUM PEAK FLOW									4780	Jan 6a			9110	Sep 17		2004		
MAXIMUM PEAK STAGE									10.04			Jan 6			12.65	Sep 17		2004
INSTANTANEOUS LOW FLOW													2.8	Sep 21		1947		
ANNUAL RUNOFF (CFSM)					2.18				1.79				1.06					
ANNUAL RUNOFF (INCHES)					29.69				24.26				14.46					
10 PERCENT EXCEEDS					400				397				270					
50 PERCENT EXCEEDS					181				170				80					
90 PERCENT EXCEEDS					85				32				23					

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Wheeling Creek Basin

03111548 Wheeling Creek below Blaine, Ohio

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

DRAINAGE AREA.—97.7 mi².

PERIOD OF RECORD.—December 1982 to September 1987, October 1988 to current year.

GAGE.—Water-stage recorder. Datum of gage is 699.11 ft above sea level. Prior to Oct. 1, 1988, at datum 1.00 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	158	1040	144	e144	242	224	207	105	56	25	116
2	135	145	399	132	143	204	1260	184	98	49	24	57
3	128	168	288	516	146	183	685	173	98	47	23	41
4	123	161	240	732	151	173	446	161	98	45	23	34
5	119	172	208	1940	158	183	352	153	94	47	23	30
6	119	139	186	3060	167	228	304	153	89	59	25	28
7	112	127	238	878	180	272	269	149	87	50	24	28
8	106	117	303	826	223	416	245	142	81	47	38	27
9	103	108	251	563	243	256	220	142	79	43	27	25
10	101	104	431	443	266	225	206	137	77	42	24	25
11	96	102	282	539	188	220	192	138	79	36	22	24
12	95	160	240	1440	174	218	181	163	82	33	21	24
13	96	130	220	589	169	202	173	138	74	53	21	24
14	104	109	195	868	355	176	163	299	73	72	20	23
15	103	102	173	488	417	161	155	240	79	42	20	23
16	98	101	163	407	287	153	148	167	71	42	32	23
17	86	99	159	356	250	148	145	144	69	46	31	31
18	116	110	149	321	221	142	141	134	64	55	24	26
19	294	398	149	289	196	138	140	130	61	64	22	23
20	138	294	130	276	194	151	139	176	60	45	22	22
21	109	197	141	251	287	137	185	153	58	38	21	23
22	100	168	139	244	228	128	154	130	56	34	19	22
23	94	159	643	225	199	387	294	165	54	39	18	24
24	124	189	327	211	193	329	280	178	51	33	17	24
25	101	261	208	e198	187	227	288	141	50	32	17	22
26	89	191	186	e184	180	203	220	127	49	38	17	27
27	85	164	166	e173	173	187	442	118	48	35	22	36
28	82	279	154	e167	201	486	260	128	49	31	25	27
29	299	209	152	e160	---	585	227	127	55	29	56	44
30	405	185	151	e154	---	310	234	112	64	27	82	42
31	229	---	152	e148	---	251	---	117	---	25	348	---
TOTAL	4129	5006	7863	16922	5920	7321	8372	4826	2152	1334	1133	945
MEAN	133	167	254	546	211	236	279	156	71.7	43.0	36.5	31.5
MAX	405	398	1040	3060	417	585	1260	299	105	72	348	116
MIN	82	99	130	132	143	128	139	112	48	25	17	22
CFSM	1.36	1.71	2.60	5.59	2.16	2.42	2.86	1.59	0.73	0.44	0.37	0.32
IN.	1.57	1.91	2.99	6.44	2.25	2.79	3.19	1.84	0.82	0.51	0.43	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984-2005, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	48.1	89.9	115	168	160	182	169	146	118	70.6	52.3	65.0											
MAX	138	402	395	546	282	330	279	344	345	230	140	525											
(WY)	1991	1986	1991	2005	2004	1993	2005	1996	1998	1990	2004	2004											
MIN	17.9	23.7	44.4	51.5	66.0	72.7	73.9	52.8	34.7	31.3	16.6	9.53											
(WY)	1989	1992	1989	1992	2002	1987	1986	1986	1992	1999	1986	1985											

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984-2005	
ANNUAL TOTAL	81331		65923			
ANNUAL MEAN	222		181		115	
HIGHEST ANNUAL MEAN					209	
LOWEST ANNUAL MEAN					70.6	
HIGHEST DAILY MEAN	4000	Sep 17	3060	Jan 6	4000	Sep 17
LOWEST DAILY MEAN	50	Jul 25	17	Aug 24	7.0	Sep 21
ANNUAL SEVEN-DAY MINIMUM	57	Aug 12	19	Aug 20	7.4	Sep 17
MAXIMUM PEAK FLOW			3960	Jan 6a	8500	Sep 17
MAXIMUM PEAK STAGE			8.45	Jan 6	12.54	Sep 17
INSTANTANEOUS LOW FLOW			16	Aug 24	7.0	Sep 21
ANNUAL RUNOFF (CFSM)	2.27		1.85		1.18	
ANNUAL RUNOFF (INCHES)	30.97		25.10		16.00	
10 PERCENT EXCEEDS	326		314		220	
50 PERCENT EXCEEDS	138		141		73	
90 PERCENT EXCEEDS	73		25		24	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Captina Creek Basin

03113990 Captina Creek at State Route 148 at Armstrongs Mills, Ohio

LOCATION.—Latitude 39°54'24", longitude 80°56'10", Belmont County, Hydrologic Unit 05030106, on left bank at downstream side of bridge on State Highway 148, at intersection of State Highway 9 at Armstrongs Mills, Ohio.

DRAINAGE AREA.—127 mi².

PERIOD OF RECORD.—June 2003 to current year.

GAGE.—Water-stage recorder. Datum of gage is 756.09 ft above sea level (revised).

REMARKS.—Records good except for periods of estimated record, which are poor. Station relocated 1.5 mi upstream from Station 03114000 Captina Creek at Armstrong Mills.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	123	1950	147	e88	398	300	295	54	14	2.2	165
2	51	91	844	123	e86	292	2890	225	44	10	2.1	58
3	50	116	497	1160	e85	244	1520	176	42	8.9	2.1	29
4	47	111	346	2720	107	227	793	148	63	4.6	2.2	18
5	43	132	269	3410	121	234	503	127	48	12	2.1	17
6	39	104	224	e5400	154	331	367	110	40	32	2.0	14
7	37	91	265	e1700	200	489	288	95	38	16	1.9	5.3
8	35	82	371	e1400	335	824	239	88	33	20	2.0	5.2
9	35	71	297	e940	478	448	187	84	66	11	2.0	7.8
10	34	63	711	e660	608	334	162	80	50	4.7	1.9	5.1
11	32	63	494	e1400	335	292	144	67	37	3.7	1.9	4.0
12	29	234	384	e3000	266	282	124	106	33	3.9	1.8	5.0
13	29	212	332	e1100	235	257	106	75	33	3.7	1.7	5.4
14	52	141	262	1930	755	211	90	549	25	6.8	1.6	5.2
15	68	106	210	905	1110	e177	88	573	26	5.1	1.6	5.0
16	48	93	181	627	627	155	79	267	32	3.9	13	3.7
17	46	87	171	461	453	145	71	175	27	5.6	28	4.7
18	89	e98	151	363	326	137	73	119	22	17	7.4	3.9
19	506	e800	147	e275	248	119	68	97	15	19	3.9	3.4
20	153	e500	131	e233	223	151	66	248	14	19	3.0	3.2
21	78	e370	161	e196	346	127	75	157	15	11	2.4	3.2
22	62	e240	142	e170	266	110	73	109	22	7.9	2.2	3.2
23	52	e260	1180	e145	219	612	475	103	20	8.8	2.0	6.3
24	66	e360	685	e128	201	603	487	144	14	7.8	1.9	19
25	67	e454	382	e118	187	356	592	98	6.7	5.6	1.9	7.7
26	52	334	283	e112	175	278	376	82	6.2	4.4	1.9	6.7
27	50	252	211	e105	165	249	1080	71	12	3.3	2.0	19
28	49	511	232	e100	225	1300	467	81	5.7	3.1	2.1	12
29	77	359	168	e96	---	1370	304	85	15	3.2	36	14
30	194	277	158	e93	---	627	342	68	e13	2.9	84	31
31	223	---	158	e90	---	412	---	57	---	2.5	628	---
TOTAL	2447	6735	11997	29307	8624	11791	12429	4759	871.6	281.4	848.8	490.0
MEAN	78.9	224	387	945	308	380	414	154	29.1	9.08	27.4	16.3
MAX	506	800	1950	5400	1110	1370	2890	573	66	32	628	165
MIN	29	63	131	90	85	110	66	57	5.7	2.5	1.6	3.2
CFSM	0.62	1.77	3.05	7.44	2.43	2.99	3.26	1.21	0.23	0.07	0.22	0.13
IN.	0.72	1.97	3.51	8.58	2.53	3.45	3.64	1.39	0.26	0.08	0.25	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003-2005, BY WATER YEAR (WY)

	2003	2004	2005	2003	2004	2005	2003	2004	2005	2003	2004	2005
MEAN	151	338	374	681	338	287	368	217	113	89.3	183	509
MAX	223	451	387	945	366	380	414	280	170	201	417	991
(WY)	2004	2004	2005	2005	2004	2005	2005	2004	2003	2003	2003	2004
MIN	78.9	224	361	416	308	193	322	154	29.1	9.08	27.4	16.3
(WY)	2005	2005	2004	2004	2005	2004	2004	2005	2005	2005	2005	2005

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003-2005	
ANNUAL TOTAL	107997		90580.8			
ANNUAL MEAN	295		248		286	
HIGHEST ANNUAL MEAN					324	
LOWEST ANNUAL MEAN					248	
HIGHEST DAILY MEAN	9600	Sep 17	5400	Jan 6	9600	Sep 17
LOWEST DAILY MEAN	11	Jul 24	1.6	Aug 14	1.6	Aug 14
ANNUAL SEVEN-DAY MINIMUM	19	Jul 19	1.8	Aug 9	1.8	Aug 9
MAXIMUM PEAK FLOW			6790	Jan 6a	28100	Sep 17
MAXIMUM PEAK STAGE			10.63	Jan 6	23.54	Sep 17
ANNUAL RUNOFF (CFSM)	2.32		1.95		2.25	
ANNUAL RUNOFF (INCHES)	31.63		26.53		30.59	
10 PERCENT EXCEEDS	495		581		551	
50 PERCENT EXCEEDS	100		97		110	
90 PERCENT EXCEEDS	35		3.8		12	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Little Muskingum River Basin

03115400 Little Muskingum River at Bloomfield, Ohio

LOCATION.—Latitude 39°33'47", longitude 81°12'14", in sec. 22, T.3 N., R.6 W., Washington County, Hydrologic Unit 05030201, on left bank 400 ft upstream from bridge on State Highway 260 at Bloomfield, Ohio, 2.2 mi downstream from Wilson Run.

DRAINAGE AREA.—210 mi².

PERIOD OF RECORD.—October 1958 to September 1981, October 1995 to current year.

REVISED RECORDS.—WSP 1705: 1959.

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

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. Satellite telemeter at gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	77	2330	161	e105	1090	373	367	106	22	3.4	10
2	27	73	1230	144	e105	615	5170	294	82	24	3.1	12
3	24	141	585	245	e105	422	2740	241	73	17	2.7	6.6
4	22	166	374	3120	e115	361	1010	201	72	12	2.4	4.2
5	20	192	294	5620	e135	350	572	171	67	9.4	2.3	2.8
6	18	169	245	7840	e170	430	402	153	53	8.5	2.3	2.1
7	16	132	247	3030	e235	528	327	140	44	10	2.3	1.6
8	15	104	312	2100	354	1200	282	133	37	12	2.3	1.4
9	13	80	272	1340	630	752	234	112	33	11	2.0	1.2
10	12	66	613	710	1410	474	201	96	38	8.3	2.0	0.98
11	12	59	597	1850	639	378	176	88	32	6.7	2.1	0.89
12	11	173	435	9470	415	345	156	157	25	5.7	2.1	0.83
13	11	366	352	1360	338	329	153	128	21	4.9	2.0	0.66
14	11	208	283	1910	1280	288	136	100	18	4.8	1.8	0.55
15	15	150	230	1000	2110	250	114	169	18	5.0	1.7	0.55
16	16	124	199	599	835	221	100	135	17	6.2	1.8	0.53
17	19	107	188	421	573	205	91	98	18	11	1.8	0.55
18	25	109	171	301	395	188	87	81	18	14	2.1	0.55
19	383	165	161	331	294	171	83	71	16	12	1.5	0.46
20	173	658	121	282	276	173	78	877	13	15	1.5	0.42
21	90	441	137	242	278	171	73	376	12	11	2.6	0.40
22	60	281	130	e210	257	154	77	223	10	8.8	2.3	0.38
23	46	232	838	e185	221	699	462	171	9.6	7.6	1.9	0.36
24	49	241	1090	e170	206	1230	906	210	8.5	6.4	1.6	0.38
25	89	604	426	e155	203	551	1310	182	7.8	5.5	1.5	0.39
26	76	458	311	e140	191	429	712	134	7.0	5.3	1.3	0.44
27	58	309	243	e130	199	355	1620	106	6.5	4.7	1.3	0.48
28	50	618	215	e138	406	1660	760	94	5.8	5.2	1.5	0.46
29	49	566	194	e130	---	3510	418	244	25	5.2	1.00	0.72
30	78	358	176	e120	---	888	390	172	20	4.8	1.3	0.74
31	94	---	168	e112	---	522	---	129	---	4.0	3.1	---
TOTAL	1612	7427	13167	43566	12480	18939	19213	5853	913.2	288.0	62.60	53.62
MEAN	52.0	248	425	1405	446	611	640	189	30.4	9.29	2.02	1.79
MAX	383	658	2330	9470	2110	3510	5170	877	106	24	3.4	12
MIN	11	59	121	112	105	154	73	71	5.8	4.0	1.0	0.36
CFSM	0.25	1.18	2.02	6.69	2.12	2.91	3.05	0.90	0.14	0.04	0.01	0.01
IN.	0.29	1.32	2.33	7.72	2.21	3.35	3.40	1.04	0.16	0.05	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958-2005 BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	69.8	167	307	416	494	570	472	320	230	94.7	85.6	134
MAX	476	813	918	1405	1121	1387	1004	899	1479	507	401	1783
(WY)	1980	2004	1979	2005	2000	1963	1964	1968	1998	2003	1979	2004
MIN	0.43	2.28	16.3	28.0	59.0	119	78.8	48.4	10.6	0.98	0.90	0.34
(WY)	1967	1964	1964	1977	1964	1969	1971	1976	1999	1966	1962	1999

	SUMMARY STATISTICS		FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958-2005	
	Value	Year	Value	Year	Value	Year	Value	Year
ANNUAL TOTAL			170841.4		123574.42			
ANNUAL MEAN			467		339		279	
HIGHEST ANNUAL MEAN							536	2004
LOWEST ANNUAL MEAN							151	1999
HIGHEST DAILY MEAN			28000	Sep 18	9470	Jan 12	28000	Sep 18 2004
LOWEST DAILY MEAN			8.4	Aug 9	0.36	Sep 23	0.00	Sep 18 1967
ANNUAL SEVEN-DAY MINIMUM			12	Oct 8	0.40	Sep 20	0.05	Sep 23 1999
MAXIMUM PEAK FLOW					12800	Jan 12a	41600	Sep 18 2004
MAXIMUM PEAK STAGE					25.71	Jan 12	32.16	Sep 18 2004
INSTANTANEOUS LOW FLOW							0.00	Sep 18 1967
ANNUAL RUNOFF (CFSM)			2.22		1.61		1.33	
ANNUAL RUNOFF (INCHES)			30.26		21.89		18.03	
10 PERCENT EXCEEDS			732		703		635	
50 PERCENT EXCEEDS			157		121		95	
90 PERCENT EXCEEDS			21		1.8		4.7	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Muskingum River Basin

03116077 Chippewa Creek at Miller Road at Sterling, Ohio

LOCATION.—Latitude 40°57'59", longitude 81°51'02", Wayne County, Hydrologic Unit 05040001, on right upstream bridge abutment of Miller Road bridge, 800 ft southwest of Seville Road and Chestnut Street in the Village of Sterling.

DRAINAGE AREA.—50.4 mi².

PERIOD OF RECORD.—October 2001 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 960 ft above sea level (from topographic map).

REMARKS.—Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	30	236	538	28	79	66	85	10	10	15	81
2	8.1	34	128	266	27	73	287	67	8.5	7.1	12	41
3	7.7	70	99	443	25	68	358	56	7.5	5.8	9.6	26
4	7.2	102	83	703	24	64	280	47	7.2	5.1	7.7	19
5	6.2	111	72	466	23	65	172	38	6.5	4.7	27	14
6	5.8	79	66	810	25	81	134	33	13	4.3	14	10
7	5.5	65	68	411	41	123	110	29	8.9	4.0	9.1	8.0
8	5.4	54	95	349	328	104	95	25	6.9	4.2	7.2	6.9
9	5.1	44	92	276	232	83	81	22	5.4	3.7	6.2	6.0
10	4.6	39	143	243	170	76	70	20	4.6	3.5	9.1	5.3
11	4.7	35	109	249	126	74	61	21	4.3	3.2	13	4.4
12	4.9	32	104	715	107	71	53	22	3.9	3.1	6.7	4.0
13	8.5	28	102	458	98	67	46	19	3.8	3.5	7.4	3.7
14	12	26	90	606	105	62	40	68	3.9	6.4	17	3.1
15	14	24	79	276	127	62	35	82	3.5	11	7.8	2.6
16	34	28	71	203	132	68	31	59	3.7	14	6.2	5.6
17	28	29	65	157	132	81	29	44	4.1	17	5.2	4.1
18	35	34	59	124	102	91	27	34	3.3	11	4.7	3.2
19	51	58	58	103	85	92	26	27	3.1	12	4.3	3.1
20	35	85	56	89	77	110	28	22	2.7	9.3	9.0	3.0
21	30	66	58	77	171	109	31	19	2.7	7.6	15	3.3
22	26	53	43	66	153	92	22	16	2.7	19	5.8	5.7
23	23	45	120	63	124	99	117	29	2.2	10	4.7	12
24	44	50	150	59	108	111	167	32	2.4	6.4	4.3	5.6
25	29	96	116	51	91	98	244	23	2.4	6.2	3.9	4.1
26	25	83	94	47	82	94	239	18	5.3	8.6	3.7	91
27	22	71	81	42	73	85	191	15	3.2	139	3.9	64
28	19	66	73	40	71	99	148	15	13	69	5.1	33
29	36	59	71	34	---	96	117	20	38	38	3.7	25
30	57	62	89	32	---	82	101	14	14	26	17	18
31	38	---	677	30	---	74	---	12	---	20	176	---
TOTAL	640.4	1658	3447	8026	2887	2633	3406	1033	200.7	492.7	441.3	515.7
MEAN	20.7	55.3	111	259	103	84.9	114	33.3	6.69	15.9	14.2	17.2
MAX	57	111	677	810	328	123	358	85	38	139	176	91
MIN	4.6	24	43	30	23	62	22	12	2.2	3.1	3.7	2.6
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001-2005 BY WATER YEAR (WY)												
MEAN	16.1	28.2	68.3	104	68.5	101	109	94.3	63.9	38.4	18.9	29.6
MAX	27.4	55.3	111	259	103	127	124	171	93.1	156	57.2	78.4
(WY)	2004	2005	2005	2005	2005	2003	2004	2004	2003	2003	2003	2004
MIN	2.08	8.29	27.9	18.0	41.2	72.5	78.4	33.3	6.69	5.54	3.82	2.44
(WY)	2003	2003	2002	2002	2003	2002	2003	2005	2005	2002	2002	2002
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 2001-2005		
ANNUAL TOTAL				28715.2			25380.8					
ANNUAL MEAN				78.5			69.5					
HIGHEST ANNUAL MEAN										63.1		
LOWEST ANNUAL MEAN										77.1		
HIGHEST DAILY MEAN				1020			810			1020		
LOWEST DAILY MEAN				3.1			2.2			0.82		
ANNUAL SEVEN-DAY MINIMUM				3.4			2.6			1.2		
MAXIMUM PEAK FLOW				932			1040			1040		
MAXIMUM PEAK STAGE				9.31			9.96			9.96		
INSTANTANEOUS LOW FLOW										0.33		
10 PERCENT EXCEEDS				150			141			144		
50 PERCENT EXCEEDS				56			34			33		
90 PERCENT EXCEEDS				5.9			4.3			3.5		

03117000 Tuscarawas River at Massillon, Ohio

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

DRAINAGE AREA.—518 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

REMARKS.—Records good except for April 3 to May 23, which are fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake, 28 mi and 3 mi south of Akron. Part of the diverted water flows through the Ohio Canal into the Cuyahoga River basin. Flow affected by industrial plants upstream from station and supplemented at times by diversion from Nimisila Reservoir, capacity, 6,500 acre-ft, since 1939. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	368	1460	3740	458	841	668	637	223	121	204	1780
2	195	326	1740	3710	451	846	1890	528	205	122	181	950
3	194	524	1140	3290	445	762	3440	473	192	88	158	426
4	193	568	696	4410	428	689	3550	410	183	74	147	279
5	200	807	541	4820	432	668	2660	367	168	205	717	226
6	194	629	484	6060	446	727	1650	345	169	191	1010	194
7	176	457	513	5650	528	1060	1050	323	191	124	597	181
8	171	380	808	5100	1630	1300	774	303	153	131	323	180
9	175	312	834	4160	2660	992	628	281	133	132	228	160
10	165	275	1240	3190	2520	805	537	267	127	91	210	156
11	162	260	1160	2460	1710	733	469	298	145	76	215	145
12	160	256	881	3960	1100	714	423	366	138	72	191	139
13	162	243	802	4650	947	650	409	365	130	91	174	137
14	184	224	721	5240	971	628	377	964	123	314	191	132
15	202	211	629	4400	1490	618	332	1420	165	280	189	127
16	207	202	541	3100	1530	656	305	980	188	239	171	175
17	201	223	484	1880	1770	702	289	605	171	267	149	215
18	209	251	434	1280	1360	722	283	456	157	235	140	195
19	518	389	446	961	896	741	291	402	138	203	134	163
20	506	850	402	859	749	747	300	373	125	207	133	136
21	432	693	410	796	1010	888	443	342	109	168	201	122
22	413	481	409	698	1490	804	418	319	105	366	188	121
23	320	375	1360	631	1330	771	1030	359	101	278	146	215
24	310	351	2130	619	1050	939	1750	471	94	187	139	269
25	391	727	1800	633	862	852	1980	369	126	160	126	193
26	336	752	1290	608	755	799	1930	305	137	225	123	575
27	308	516	844	569	686	733	1570	256	107	1540	123	1160
28	251	437	675	495	686	1000	1100	234	104	1080	124	603
29	316	397	649	475	---	1330	756	230	127	525	140	434
30	654	375	812	460	---	945	656	215	136	316	303	358
31	520	---	2400	470	---	778	---	231	---	237	2440	---
TOTAL	8625	12859	28735	79374	30390	25440	31958	13494	4370	8345	9515	10146
MEAN	278	429	927	2560	1085	821	1065	435	146	269	307	338
MAX	654	850	2400	6060	2660	1330	3550	1420	223	1540	2440	1780
MIN	160	202	402	460	428	618	283	215	94	72	123	121

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938-2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	210	303	454	579	713	874	751	528	405	316	240	227
MAX	1206	1628	1621	2560	1659	1827	1591	1641	1852	1812	1273	1465
(WY)	1991	1986	1991	2005	1959	1978	1994	1996	1947	1969	1958	1979
MIN	70.0	81.4	81.5	94.6	98.0	283	172	121	81.2	79.1	82.9	69.9
(WY)	1964	1945	1964	1945	1964	1969	1946	1941	1988	1954	1962	1954

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1938-2005	
ANNUAL TOTAL	287650	263251		
ANNUAL MEAN	786	721	466	
HIGHEST ANNUAL MEAN			777	2004
LOWEST ANNUAL MEAN			245	1954
HIGHEST DAILY MEAN	4590	Jan 5	9360	Jul 6 1959
LOWEST DAILY MEAN	123	Aug 15	49	Jul 17 1988
ANNUAL SEVEN-DAY MINIMUM	133	Aug 9	53	Jul 12 1988
MAXIMUM PEAK FLOW			6540	Jan 6 1969
MAXIMUM PEAK STAGE			12.83	Jan 6 1969
INSTANTANEOUS LOW FLOW			45	Sep 20 1999
10 PERCENT EXCEEDS	1850	1590	1090	
50 PERCENT EXCEEDS	520	410	240	
90 PERCENT EXCEEDS	210	137	102	

03117500 Sandy Creek at Waynesburg, Ohio

LOCATION.—Latitude 40°40'21", longitude 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, Ohio, 300 ft downstream from Little Sandy Creek, and 0.6 mi upstream from Indian Run.

DRAINAGE AREA.—253 mi².

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, National Geodetic Vertical Datum of 1912.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	230	1250	665	e290	371	389	609	168	71	70	363
2	207	183	1460	529	e263	386	932	479	154	68	66	187
3	196	237	1150	748	262	350	2010	420	144	64	62	129
4	185	315	854	1960	254	310	1800	347	140	63	61	106
5	171	453	649	1880	245	295	1350	297	133	92	74	95
6	162	358	498	4110	246	309	e1000	278	126	152	82	82
7	152	289	455	4860	241	458	e740	264	117	174	69	69
8	143	252	602	3260	465	645	e600	249	114	121	62	66
9	137	219	592	2270	928	642	e460	231	123	88	59	64
10	128	203	907	1500	915	553	e380	220	108	77	57	61
11	122	190	863	1250	e720	465	e320	215	110	72	56	60
12	118	198	786	2390	e600	432	e270	273	107	68	54	57
13	114	204	714	3510	513	401	e250	246	103	68	53	56
14	113	181	609	3060	488	358	e240	522	100	76	83	54
15	117	168	505	2360	1030	327	e230	500	94	90	68	52
16	121	163	441	e1650	e840	306	e225	340	91	87	60	56
17	118	166	404	e1100	e720	289	e220	284	94	81	58	57
18	132	179	380	e800	e620	275	e215	236	90	73	54	54
19	225	249	378	e670	e530	263	e215	214	87	69	53	52
20	230	476	386	e650	467	268	e215	214	84	63	52	51
21	177	431	346	e600	457	289	e235	210	81	61	51	50
22	157	342	312	e560	503	273	e260	190	82	61	49	49
23	146	316	1270	e520	465	259	502	202	79	60	49	77
24	171	317	e2500	e480	414	394	747	317	76	58	48	73
25	178	685	e1750	e440	371	401	941	244	75	58	47	61
26	142	805	e1200	e430	348	365	838	199	78	69	47	148
27	124	670	e800	e420	333	343	1090	180	74	358	53	233
28	114	633	e600	e420	317	387	912	189	73	194	54	126
29	165	573	517	e320	---	566	749	248	71	116	50	140
30	351	468	489	e300	---	513	673	200	70	92	75	177
31	342	---	650	e320	---	441	---	184	---	78	649	---
TOTAL	5178	10153	24317	44032	13845	11934	19008	8801	3046	2922	2425	2905
MEAN	167	338	784	1420	494	385	634	284	102	94.3	78.2	96.8
MAX	351	805	2500	4860	1030	645	2010	609	168	358	649	363
MIN	113	163	312	300	241	259	215	180	70	58	47	49
CFSM	0.66	1.34	3.10	5.61	1.95	1.52	2.50	1.12	0.40	0.37	0.31	0.38
IN.	0.76	1.49	3.58	6.47	2.04	1.75	2.79	1.29	0.45	0.43	0.36	0.43
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-2005 BY WATER YEAR (WY)												
MEAN	100	171	291	367	459	549	480	341	224	146	107	106
MAX	476	1008	1104	1420	987	1179	867	961	750	780	871	1040
(WY)	1991	1986	1991	2005	1956	1945	1957	1996	1989	2003	1980	2004
MIN	15.5	18.4	22.1	55.1	53.5	114	118	80.4	45.1	33.2	22.3	16.1
(WY)	1964	1964	1964	1954	1964	1969	1946	1941	1988	1965	1962	1963
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1939-2005
ANNUAL MEAN				212538				148566				
HIGHEST ANNUAL MEAN				581				407				278
LOWEST ANNUAL MEAN												2004
HIGHEST DAILY MEAN				5370				4860				571
LOWEST DAILY MEAN				86				47				140
ANNUAL SEVEN-DAY MINIMUM				110				49				Jan 22
MAXIMUM PEAK FLOW								5700				1959
MAXIMUM PEAK STAGE								8.44				11000
INSTANTANEOUS LOW FLOW								46				Sep 18
ANNUAL RUNOFF (CFSM)				2.30				1.61				1963
ANNUAL RUNOFF (INCHES)				31.25				21.84				12
10 PERCENT EXCEEDS				1220				839				Sep 18
50 PERCENT EXCEEDS				379				240				1963
90 PERCENT EXCEEDS				149				61				1959
												15000
												Jan 22
												Sep 12
												1971
												6.9
												1.10
												14.91
												643
												144
												36

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03118000 Middle Branch Nimishillen Creek at Canton, Ohio

LOCATION.—Latitude 40°50'29", longitude 81°21'14", in NE ¼ sec. 27, T.11 N., R.8 W., Stark County, Hydrologic Unit 05040001, on right bank at downstream side of bridge on Martindale Road, 2.4 mi upstream from mouth, and 0.5 mi northeast of Canton, Ohio.

DRAINAGE AREA.—43.1 mi².

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, National Geodetic Vertical Datum of 1912.

REMARKS.—Records fair except for periods of estimated record, which are poor. Part of municipal water supply for city of Canton is pumped from its northeast well field; a portion of pumpage is believed to be derived from creek as recharge to aquifer supplying well field about 1 mi downstream from gage. Mean pumpage for water year 2005, 11.4 ft³/s. At times low flow regulated by small pools above station. Water-quality data formerly collected at this site.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	23	191	248	49	66	49	87	33	27	15	343
2	25	20	191	147	47	61	235	68	31	22	13	157
3	24	26	97	205	46	55	406	58	30	19	12	74
4	24	31	63	440	45	51	276	52	31	15	11	48
5	24	48	50	348	44	49	160	48	27	42	75	36
6	23	42	45	587	44	53	106	44	25	58	80	31
7	22	33	52	463	49	119	87	42	28	33	38	27
8	22	28	107	338	150	172	74	40	30	19	28	26
9	21	25	85	327	240	107	62	39	31	14	21	25
10	18	23	151	207	181	73	58	38	36	11	15	23
11	18	22	119	169	111	65	54	38	75	9.3	19	20
12	18	23	86	409	80	61	49	42	61	12	16	20
13	19	22	78	441	74	57	45	37	45	11	19	19
14	20	20	66	415	89	51	42	228	39	10	26	19
15	20	19	54	283	199	49	40	225	39	9.5	20	18
16	17	20	47	185	159	52	38	109	40	9.1	18	23
17	15	20	43	140	163	57	37	67	43	8.6	15	23
18	15	22	40	e120	106	61	36	51	36	8.3	12	21
19	24	29	41	e110	74	58	37	44	32	8.4	12	20
20	24	52	42	e100	63	59	41	40	30	6.2	12	19
21	22	58	39	e94	79	67	55	38	28	5.1	13	19
22	20	42	36	e86	92	58	54	35	26	7.6	12	18
23	18	34	185	e80	81	57	114	45	25	7.0	11	23
24	21	33	389	e75	71	69	149	46	23	5.8	11	21
25	21	59	e270	e70	61	64	164	38	25	5.2	10	20
26	20	65	e180	66	57	64	137	34	24	14	10	86
27	17	47	e120	62	51	57	111	32	20	158	11	119
28	23	44	81	57	53	77	88	32	24	76	11	52
29	26	44	53	54	---	103	70	33	31	32	10	52
30	32	40	63	53	---	71	78	35	29	21	49	48
31	29	---	230	51	---	57	---	37	---	17	436	---
TOTAL	670	1014	3294	6430	2558	2120	2952	1802	997	701.1	1061	1450
MEAN	21.6	33.8	106	207	91.4	68.4	98.4	58.1	33.2	22.6	34.2	48.3
MAX	32	65	389	587	240	172	406	228	75	158	436	343
MIN	15	19	36	51	44	49	36	32	20	5.1	10	18
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-2005 BY WATER YEAR (WY)												
MEAN	14.1	23.8	40.0	50.8	59.6	71.6	62.4	48.6	36.7	27.1	19.2	18.0
MAX	84.7	103	140	207	153	142	227	138	150	168	108	97.2
(WY)	1991	1986	1991	2005	1971	1951	1994	1996	1989	2003	1958	1990
MIN	0.74	1.09	2.78	1.40	1.88	23.7	14.9	10.5	5.17	3.16	2.32	1.25
(WY)	1992	1992	1964	1963	1963	1969	1946	1988	1988	1954	1962	1991
SUMMARY STATISTICS												
				FOR 2005 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1942-2005		
ANNUAL TOTAL				28717.5			25049.1					
ANNUAL MEAN				78.5			68.6			39.2		
HIGHEST ANNUAL MEAN										78.2		
LOWEST ANNUAL MEAN										16.0		
HIGHEST DAILY MEAN				838			587			1620		
LOWEST DAILY MEAN				9.5			5.1			0.30		
ANNUAL SEVEN-DAY MINIMUM				14			6.5			0.30		
MAXIMUM PEAK FLOW							672			2470		
MAXIMUM PEAK STAGE							5.71			6.63		
INSTANTANEOUS LOW FLOW							3.9			0.20		
10 PERCENT EXCEEDS				181			159			86		
50 PERCENT EXCEEDS				48			42			20		
90 PERCENT EXCEEDS				22			15			4.3		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03118500 Nimishillen Creek at North Industry, Ohio

LOCATION.—Latitude 40°44'03", longitude 81°21'08", in sec. 34, T.10 N., R.8 W., Stark County, Hydrologic Unit 05040001, on left bank upstream abutment of Baum Road bridge, 400 ft northeast of Ridge Street in North Industry, Ohio, and 2.1 mi downstream from Sherrick Run.

DRAINAGE AREA.—175 mi².

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 976.72 ft, National Geodetic Vertical Datum of 1912. Prior to Dec. 13, 1923, nonrecording gage at present site at different datum; prior to Dec. 11, 1990, at site 0.9 mi downstream at datum 5.95 ft lower.

REMARKS.—Records good. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 2005 water year, 15.7 ft³/s. See REMARKS for station 03124500. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	143	1190	710	236	359	247	343	165	151	117	732
2	158	167	528	487	230	302	2190	291	151	116	113	322
3	154	195	325	1460	230	275	1660	266	150	107	108	213
4	153	278	254	2120	227	264	928	241	144	106	104	168
5	151	267	223	1910	228	262	523	226	138	477	512	147
6	146	199	224	3590	245	313	402	214	145	380	277	141
7	144	169	365	1460	311	516	357	203	135	208	153	135
8	140	152	460	1770	1010	631	326	194	132	141	133	127
9	134	144	418	1060	862	364	292	190	138	122	120	127
10	132	138	737	661	570	308	274	187	137	112	107	119
11	132	136	413	866	380	302	261	233	164	109	111	109
12	133	158	344	3220	327	298	246	249	148	108	106	112
13	137	135	336	1650	307	274	234	210	136	120	219	109
14	139	129	284	2070	569	257	222	1140	136	165	272	107
15	149	132	245	901	722	253	213	560	143	124	130	105
16	132	142	225	612	640	259	207	323	132	133	126	210
17	125	147	217	492	538	261	202	255	158	113	108	121
18	202	159	205	417	368	259	202	223	124	106	99	107
19	223	366	217	394	299	257	202	205	117	111	98	105
20	152	435	196	374	282	282	267	204	116	103	98	101
21	142	279	191	349	390	280	279	189	116	98	105	101
22	137	218	198	336	349	255	315	179	116	251	94	101
23	133	191	2050	317	320	303	744	316	111	140	90	251
24	197	238	1310	298	303	323	565	259	111	104	91	126
25	144	405	532	297	285	298	728	197	258	105	87	110
26	134	276	333	295	273	291	487	179	128	298	84	604
27	129	226	280	270	257	268	531	177	110	1100	101	287
28	128	259	256	253	317	522	351	197	280	264	88	173
29	323	218	288	250	---	405	311	177	265	168	84	350
30	245	247	398	258	---	312	418	171	192	139	614	181
31	164	---	1130	247	---	271	---	178	---	124	2530	---
TOTAL	4875	6348	14372	29394	11075	9824	14184	8176	4496	5903	7079	5701
MEAN	157	212	464	948	396	317	473	264	150	190	228	190
MAX	323	435	2050	3590	1010	631	2190	1140	280	1100	2530	732
MIN	125	129	191	247	227	253	202	171	110	98	84	101
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)												
MEAN	106	142	197	244	272	326	290	228	186	159	132	120
MAX	438	649	733	948	586	569	584	615	689	812	445	474
(WY)	1991	1986	1991	2005	1981	1963	1994	1996	1989	2003	1935	2003
MIN	27.4	30.1	35.5	46.7	33.5	75.5	71.1	37.3	44.9	31.4	28.0	30.0
(WY)	1931	1931	1931	1945	1934	1931	1935	1934	1932	1930	1932	1932
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1922-2005		
ANNUAL TOTAL				142138			121427					
ANNUAL MEAN				388			333			200		
HIGHEST ANNUAL MEAN										384		
LOWEST ANNUAL MEAN										72.4		
HIGHEST DAILY MEAN				4550			3590			5880		
LOWEST DAILY MEAN				105			84			14		
ANNUAL SEVEN-DAY MINIMUM				114			89			20		
MAXIMUM PEAK FLOW							4200			9310		
MAXIMUM PEAK STAGE							8.88			14.18		
INSTANTANEOUS LOW FLOW										3.6		
10 PERCENT EXCEEDS				784			584			395		
50 PERCENT EXCEEDS				244			225			127		
90 PERCENT EXCEEDS				143			110			55		

^a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

03121850 Huff Run at Mineral City, Ohio

LOCATION.—Latitude 40°35'50", longitude 81°21'33", Tuscarawas County, Hydrologic Unit 05040001, on left abutment of bridge on County Road 90, adjacent to intersection of Sandy Township Road 46, 500 ft southeast of State Route 800 at southeast edge of Mineral City, Ohio, and 1.4 mi upstream from Conotton Creek.
 DRAINAGE AREA.—12.3 mi².

Water-Discharge Records

PERIOD OF RECORD.—October 1997 to current year.

GAGE.—Water-stage recorder. Datum of gage is 886.98 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Data Collection Platform at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	7.2	88	18	e21	21	18	26	8.4	4.0	2.6	16
2	9.3	7.9	43	17	e20	18	153	22	7.9	3.4	2.3	8.7
3	8.9	10	29	57	e20	16	96	20	7.7	3.1	2.0	6.1
4	8.5	15	22	103	e19	16	55	18	7.6	2.9	1.7	4.9
5	8.1	14	18	157	e19	17	40	16	7.2	6.6	11	4.1
6	7.8	11	17	e640	e19	19	32	16	7.1	9.2	6.0	3.6
7	7.6	9.8	19	e160	e27	25	27	15	6.8	4.3	3.6	3.5
8	7.4	8.6	20	e80	e72	36	24	14	6.5	5.2	2.8	3.0
9	7.3	7.8	20	e56	e40	25	21	13	13	4.8	2.4	2.9
10	7.3	7.4	40	e47	e30	23	18	13	7.4	4.1	2.2	2.7
11	7.0	7.3	29	e80	e24	22	17	15	9.5	3.7	2.2	2.5
12	6.9	8.6	25	e240	e21	21	16	23	7.4	3.5	2.0	2.4
13	7.1	7.3	22	e110	e19	19	15	14	6.6	3.4	1.8	2.3
14	7.5	6.8	18	e90	e30	16	14	20	6.4	4.1	4.4	2.2
15	7.1	6.5	16	e70	e45	15	13	17	6.1	3.9	3.4	2.3
16	7.5	6.5	15	e65	e40	14	11	14	6.0	3.9	3.5	3.4
17	6.9	6.7	15	e55	e30	14	11	13	5.9	3.6	2.9	4.9
18	7.9	7.2	14	e52	e22	14	11	12	5.5	e3.4	2.3	3.1
19	11	18	15	e48	e19	14	11	11	5.3	e3.2	2.2	2.6
20	7.9	18	12	e43	e17	15	13	11	5.2	3.0	2.5	2.4
21	7.1	14	12	e40	e26	14	23	11	5.1	2.8	6.1	2.3
22	6.5	13	13	e37	e23	13	15	10	5.0	3.8	3.4	2.2
23	6.5	13	281	e33	e20	16	43	11	4.5	3.6	2.5	4.2
24	9.2	14	74	e30	e18	18	44	12	4.4	2.9	2.0	3.8
25	7.4	35	36	e28	e17	16	54	9.8	e4.6	3.4	1.7	2.9
26	6.6	23	27	e26	16	16	45	9.0	e4.5	5.4	1.6	15
27	6.4	19	21	e25	15	15	62	8.6	e4.4	13	1.8	8.2
28	6.2	19	18	e24	19	28	41	13	e6.0	5.3	2.0	4.9
29	8.8	15	19	e23	---	26	33	12	e7.6	4.0	1.9	11
30	10	15	18	e22	---	22	33	9.6	e6.0	3.3	5.8	7.1
31	8.4	---	21	e21	---	20	---	9.3	---	2.9	64	---
TOTAL	241.5	371.6	1037	2497	708	584	1009	438.3	195.6	133.7	156.6	145.2
MEAN	7.79	12.4	33.5	80.5	25.3	18.8	33.6	14.1	6.52	4.31	5.05	4.84
MAX	11	35	281	640	72	36	153	26	13	13	64	16
MIN	6.2	6.5	12	17	15	13	11	8.6	4.4	2.8	1.6	2.2
CFSM	0.63	1.01	2.72	6.55	2.06	1.53	2.73	1.15	0.53	0.35	0.41	0.39
IN.	0.73	1.12	3.14	7.55	2.14	1.77	3.05	1.33	0.59	0.40	0.47	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998-2005, BY WATER YEAR (WY)

MEAN	5.46	6.41	12.9	27.7	17.2	17.6	26.9	22.1	14.2	8.44	12.2	13.3
MAX	13.7	13.7	33.5	80.5	25.3	23.4	41.0	46.6	48.7	21.1	41.9	52.4
(WY)	2004	2004	2005	2005	2005	1999	2000	2004	2004	2000	2004	2004
MIN	2.29	3.47	4.49	6.28	7.95	10.2	13.6	11.1	4.53	2.63	1.54	2.06
(WY)	2003	1999	2000	2002	2003	2000	2003	1999	1999	2002	2001	2001

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998-2005	
ANNUAL TOTAL	11176.7		7517.5			
ANNUAL MEAN	30.5		20.6		15.4	
HIGHEST ANNUAL MEAN					30.0	
LOWEST ANNUAL MEAN					9.30	
HIGHEST DAILY MEAN	729	Sep 9	e640	Jan 6	729	Sep 9
LOWEST DAILY MEAN	5.3	Jul 25	1.6	Aug 26	0.91	Sep 1
ANNUAL SEVEN-DAY MINIMUM	6.2	Aug 11	1.9	Aug 23	1.1	Aug 8
MAXIMUM PEAK FLOW			e700	Jan 6a	1860	Sep 9
MAXIMUM PEAK STAGE			19.94	Jan 16	19.94	Jan 16
INSTANTANEOUS LOW FLOW			1.4	Aug 5	0.73	Aug 12
ANNUAL RUNOFF (CFSM)	2.48		1.67		1.25	
ANNUAL RUNOFF (INCHES)	33.80		22.74		16.96	
10 PERCENT EXCEEDS	54		40		29	
50 PERCENT EXCEEDS	15		12		7.9	
90 PERCENT EXCEEDS	7.3		2.9		2.5	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03121850 Huff Run at Mineral City, Ohio—Continued

Water-Quality Records

PERIOD OF RECORD.—October 1997 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: October 1997 to current year.

pH: October 1997 to current year.

WATER TEMPERATURE: October 1997 to current year.

DISSOLVED OXYGEN: October 1997 to current year.

INSTRUMENTATION.— Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.— Interruptions in the water-quality record are due to malfunction of the instrument. Specific conductance records are good except May 13-26, which are fair, and April 26-May 13, which are poor. pH records are good except July 11-31, which are poor. Water temperature records are good. Dissolved oxygen records are fair except Oct. 18-Nov. 1, May 26-June 10, Aug. 1-29, and Sept. 29-30, which are poor.

EXTREMES FOR PERIOD OF RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 2,150 microsiemens, July 8, 2005; minimum, 197 microsiemens, Jan. 23, 1999.

pH: Maximum, 7.8 units, Jan. 30, 2000; minimum, 3.8 units, Aug. 13 and 23, 2002.

WATER TEMPERATURE: Maximum, 28.5°C, July 23, 1998; minimum, 0.0°C, on many days during winter.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Feb. 16 and Mar. 7, 2004; minimum, 3.4 mg/L, Sept. 11 and 12, 2000.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 2,150 microsiemens, July 8; minimum, 323 microsiemens, Jan. 5.

pH: Maximum, 7.1 units on several days; minimum, 4.2 units, July 17.

WATER TEMPERATURE: Maximum, 24.9°C, Sept. 2; minimum, 0.1°C, Dec. 20.

DISSOLVED OXYGEN: Maximum, 14.8 mg/L, Nov. 26; minimum, 4.8 mg/L, Aug. 31.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	1250	1200	1220	1320	1190	1220	782	381	535	810	768	785
2	1280	1250	1270	1290	1230	1270	498	424	481	850	810	830
3	1290	1250	1260	1310	1230	1270	600	521	559	855	502	739
4	1310	1260	1270	1230	1140	1130	678	600	638	509	397	433
5	1290	1270	1280	1010	830	883	736	678	704	495	323	443
6	1350	1280	1310	1010	929	972	776	736	759	---	---	---
7	1360	1310	1340	1070	1010	1040	811	757	776	---	---	---
8	1380	1330	1360	1110	1070	1090	809	699	723	---	---	---
9	1390	1370	1380	1160	1110	1140	767	680	742	---	---	---
10	1400	1390	1390	1200	1160	1180	772	506	582	---	---	---
11	1400	1340	1390	1240	1200	1210	610	582	591	---	---	---
12	1420	1360	1390	1260	1210	1230	640	605	618	---	---	---
13	1420	1410	1410	1240	1180	1210	672	640	657	---	---	---
14	1420	1400	1420	1220	1190	1210	724	672	693	---	---	---
15	1410	1400	1400	1260	1220	1240	765	724	744	---	---	---
16	1410	1340	1390	1290	1260	1280	789	765	781	---	---	---
17	1360	1340	1350	1290	1260	1280	803	789	798	---	---	---
18	1370	1280	1340	1280	1270	1270	830	803	820	---	---	---
19	1350	1240	1310	1280	811	1140	835	825	831	---	---	---
20	1240	1140	1180	828	744	792	889	827	862	---	---	---
21	1310	1220	1270	845	811	824	899	880	891	---	---	---
22	1370	1300	1330	884	845	866	899	873	888	---	---	---
23	1390	1350	1370	902	884	895	---	---	---	---	---	---
24	1400	1300	1360	920	888	897	---	---	---	---	---	---
25	1370	1240	1310	920	560	695	---	---	---	---	---	---
26	1310	1240	1270	646	593	617	---	---	---	---	---	---
27	1380	1310	1340	696	646	671	---	---	---	---	---	---
28	1410	1340	1380	750	695	715	835	830	831	---	---	---
29	1420	1320	1370	776	698	741	853	835	843	---	---	---
30	1410	1180	1310	814	776	797	856	822	838	---	---	---
31	1220	1160	1190	---	---	---	853	788	818	---	---	---
MONTH	1420	1140	1330	1320	560	1030	899	381	731	855	323	646

03121850 Huff Run at Mineral City, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.6	6.4	6.5	6.6	6.4	6.5	6.8	6.6	6.7	6.8	6.4	6.4
2	6.6	6.4	6.5	6.7	6.5	6.5	6.7	6.6	6.6	6.8	6.4	6.4
3	6.6	6.3	6.5	6.6	6.5	6.5	6.6	6.6	6.6	6.8	6.7	6.8
4	6.5	6.1	6.4	6.8	6.5	6.6	6.6	6.5	6.5	6.8	6.4	6.4
5	6.5	6.0	6.3	6.8	6.6	6.6	6.6	6.5	6.6	6.8	6.5	6.6
6	6.7	6.0	6.4	6.6	6.5	6.5	6.8	6.5	6.6	---	---	---
7	6.7	6.4	6.5	6.6	6.5	6.5	6.9	6.6	6.8	---	---	---
8	6.6	6.4	6.5	6.5	6.4	6.5	6.7	6.5	6.5	---	---	---
9	6.5	6.4	6.4	6.4	6.4	6.4	6.9	6.4	6.5	---	---	---
10	6.6	6.4	6.5	6.6	6.4	6.5	7.0	6.5	6.8	---	---	---
11	6.7	6.4	6.4	6.7	6.5	6.5	6.6	6.4	6.5	---	---	---
12	6.6	6.4	6.4	6.7	6.5	6.5	6.7	6.4	6.4	---	---	---
13	6.6	6.4	6.4	6.5	6.5	6.5	6.5	6.3	6.4	---	---	---
14	6.6	6.4	6.4	6.5	6.4	6.5	6.4	6.3	6.3	---	---	---
15	6.6	6.4	6.4	6.5	6.4	6.4	6.3	6.3	6.3	---	---	---
16	6.6	6.4	6.4	6.5	6.4	6.5	6.4	6.2	6.3	---	---	---
17	6.4	6.3	6.4	6.7	6.5	6.5	6.4	6.3	6.3	---	---	---
18	6.6	6.2	6.4	6.7	6.5	6.7	6.8	6.2	6.3	---	---	---
19	6.8	6.5	6.6	7.0	6.6	6.7	6.9	6.2	6.2	---	---	---
20	6.8	6.4	6.6	7.0	6.7	6.7	6.2	6.1	6.1	---	---	---
21	6.6	6.4	6.4	6.8	6.7	6.7	6.8	6.1	6.2	---	---	---
22	6.6	6.4	6.4	6.9	6.7	6.7	6.8	6.3	6.8	---	---	---
23	6.6	6.4	6.5	6.9	6.6	6.7	6.9	6.0	6.1	---	---	---
24	6.6	6.4	6.5	6.9	6.6	6.9	6.0	5.9	6.0	---	---	---
25	6.5	6.4	6.5	6.9	6.7	6.7	6.0	5.9	5.9	---	---	---
26	6.6	6.4	6.4	6.7	6.6	6.6	6.0	5.9	5.9	---	---	---
27	6.6	6.4	6.4	6.8	6.6	6.7	5.9	5.9	5.9	---	---	---
28	6.5	6.4	6.4	6.8	6.6	6.6	6.2	5.8	6.1	---	---	---
29	6.7	6.4	6.6	6.8	6.6	6.6	6.4	6.2	6.3	---	---	---
30	6.7	6.5	6.5	6.8	6.6	6.6	6.4	6.3	6.3	---	---	---
31	6.5	6.5	6.5	---	---	---	6.8	6.3	6.4	---	---	---
MAX	6.8	6.5	6.6	7.0	6.7	6.9	7.0	6.6	6.8	6.8	6.7	6.8
MIN	6.4	6.0	6.3	6.4	6.4	6.4	5.9	5.8	5.9	6.8	6.4	6.4

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	---	---	---	---	---	---	6.8	6.5	6.6	6.2	6.1	6.1
2	---	---	---	---	---	---	6.8	6.4	6.7	6.1	6.1	6.1
3	---	---	---	---	---	---	6.7	6.4	6.4	6.1	6.1	6.1
4	---	---	---	---	---	---	6.5	6.3	6.4	6.2	6.0	6.1
5	---	---	---	---	---	---	6.6	6.4	6.5	6.1	6.0	6.1
6	---	---	---	---	---	---	6.6	6.5	6.5	6.1	6.0	6.1
7	---	---	---	6.9	6.9	6.9	6.7	6.5	6.5	6.1	6.0	6.1
8	---	---	---	7.0	6.9	7.0	6.6	6.5	6.5	6.1	6.0	6.1
9	---	---	---	7.0	6.9	6.9	6.6	6.5	6.5	6.1	5.9	6.1
10	---	---	---	6.9	6.9	6.9	6.5	6.4	6.5	6.1	6.0	6.0
11	---	---	---	6.9	6.9	6.9	6.5	6.4	6.5	6.2	6.0	6.1
12	---	---	---	6.9	6.9	6.9	6.5	6.4	6.5	6.2	6.1	6.1
13	---	---	---	6.9	6.8	6.8	6.5	6.4	6.5	6.3	6.1	6.2
14	---	---	---	6.9	6.8	6.8	6.5	6.3	6.3	6.4	6.2	6.3
15	---	---	---	6.8	6.8	6.8	6.3	6.3	6.3	6.3	6.3	6.3
16	---	---	---	6.8	6.7	6.8	6.4	6.3	6.3	6.3	6.1	6.2
17	---	---	---	6.8	6.7	6.7	6.3	6.3	6.3	6.2	6.1	6.1
18	---	---	---	6.7	6.7	6.7	6.3	6.3	6.3	6.2	6.1	6.1
19	---	---	---	6.7	6.7	6.7	6.4	6.4	6.3	6.2	6.1	6.1
20	---	---	---	6.7	6.6	6.7	6.4	6.2	6.3	6.2	6.1	6.2
21	---	---	---	6.7	6.7	6.7	6.6	6.3	6.4	6.2	6.1	6.1
22	---	---	---	6.7	6.6	6.7	6.4	6.2	6.3	6.2	6.1	6.1
23	---	---	---	6.7	6.6	6.6	6.4	6.3	6.3	6.3	6.1	6.2
24	---	---	---	6.8	6.7	6.8	6.5	6.3	6.4	6.2	6.2	6.2
25	---	---	---	6.8	6.7	6.7	6.4	6.2	6.3	6.2	6.1	6.1
26	---	---	---	6.7	6.7	6.7	6.5	6.2	6.3	6.2	6.1	6.2
27	---	---	---	6.7	6.7	6.7	6.4	6.2	6.3	6.3	6.2	6.2
28	---	---	---	6.9	6.7	6.7	6.3	6.2	6.3	6.4	6.2	6.3
29	---	---	---	6.9	6.8	6.9	6.5	6.2	6.2	6.4	6.3	6.3
30	---	---	---	6.8	6.7	6.8	6.4	6.1	6.2	6.3	6.2	6.3
31	---	---	---	6.7	6.6	6.6	---	---	---	6.4	6.2	6.2
MAX	---	---	---	7.0	6.9	7.0	6.8	6.5	6.7	6.4	6.3	6.3
MIN	---	---	---	6.7	6.6	6.6	6.3	6.1	6.2	6.1	5.9	6.0

03121850 Huff Run at Mineral City, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.2	6.1	6.2	6.2	4.5	6.1	5.3	4.6	5.2	7.1	6.5	6.7
2	6.2	6.2	6.2	5.8	5.3	5.6	5.8	5.1	5.2	7.1	6.6	6.7
3	6.2	6.1	6.2	5.4	5.1	5.3	5.8	5.7	5.8	6.7	6.6	6.7
4	6.2	6.1	6.2	5.3	4.8	5.1	5.8	5.4	5.6	6.6	6.5	6.6
5	6.2	6.1	6.1	6.6	4.8	4.9	6.1	5.2	5.4	6.7	6.4	6.6
6	6.2	6.1	6.2	6.9	6.6	6.9	6.2	6.1	6.2	6.6	6.4	6.5
7	6.2	6.1	6.2	6.6	6.0	6.5	6.1	5.9	6.1	6.5	6.4	6.5
8	6.2	6.1	6.2	6.4	4.8	6.4	6.0	5.8	5.9	6.5	6.4	6.5
9	6.5	5.7	6.1	5.5	5.3	5.4	5.8	5.6	5.8	6.5	6.4	6.5
10	6.2	5.8	6.0	5.3	5.0	5.3	6.0	5.7	5.9	6.5	6.4	6.5
11	6.5	6.2	6.3	5.0	4.7	4.9	6.0	6.0	6.0	6.5	6.4	6.5
12	6.3	6.2	6.3	4.7	4.5	4.6	6.0	6.0	6.0	6.5	6.4	6.5
13	6.2	6.1	6.1	4.6	4.4	4.5	6.1	6.0	6.0	6.5	6.4	6.5
14	6.2	6.1	6.2	4.6	4.4	4.4	6.4	6.0	6.2	6.5	6.4	6.4
15	6.3	6.2	6.2	4.4	4.3	4.4	6.4	6.3	6.4	6.5	6.4	6.5
16	6.3	6.2	6.2	4.3	4.3	4.3	6.4	6.3	6.4	6.7	6.5	6.5
17	6.3	6.1	6.2	4.3	4.2	4.3	6.4	6.2	6.4	6.6	6.6	6.6
18	6.2	6.1	6.2	---	---	---	6.3	6.2	6.3	6.6	6.6	6.6
19	6.2	6.1	6.1	---	---	---	6.3	6.2	6.2	6.6	6.5	6.5
20	6.1	6.0	6.1	5.2	4.6	4.7	6.3	6.1	6.2	6.5	6.5	6.5
21	6.1	5.5	6.0	5.1	4.6	4.7	6.6	6.3	6.4	6.5	6.4	6.5
22	6.0	5.2	5.5	4.9	4.5	4.6	6.5	6.3	6.4	6.5	6.4	6.5
23	6.1	5.9	6.0	4.7	4.5	4.6	6.4	6.3	6.3	6.7	6.5	6.6
24	6.0	5.5	6.0	4.5	4.4	4.5	6.3	6.1	6.2	6.6	6.5	6.6
25	5.5	4.9	5.3	4.6	4.3	4.4	6.2	6.1	6.1	6.6	6.5	6.6
26	5.8	5.4	5.6	4.7	4.3	4.4	6.1	6.1	6.1	6.9	6.6	6.7
27	6.2	5.6	5.8	4.9	4.7	4.9	6.1	6.0	6.1	6.9	6.7	6.8
28	6.2	5.6	6.2	5.0	4.9	4.9	6.1	5.9	6.0	6.8	6.6	6.6
29	6.3	5.9	6.2	5.0	4.7	4.9	6.3	5.9	6.2	6.9	6.6	6.7
30	6.2	5.9	6.2	4.9	4.6	4.8	6.5	6.3	6.3	6.8	6.6	6.6
31	---	---	---	4.8	4.6	4.7	7.1	6.3	6.4	---	---	---
MAX	6.5	6.2	6.3	6.9	6.6	6.9	7.1	6.3	6.4	7.1	6.7	6.8
MIN	5.5	4.9	5.3	4.3	4.2	4.3	5.3	4.6	5.2	6.5	6.4	6.4
YEAR	MAX	MAXIMUM 7.1 MINIMUM 4.3		MIN	MAXIMUM 6.9 MINIMUM 4.2		MEDIAN	MAXIMUM 7.0 MINIMUM 4.3				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	14.7	11.9	13.4	11.9	10.1	10.8	8.3	6.5	7.5	7.7	6.9	7.3
2	14.9	13.9	14.6	12.9	10.6	11.9	6.6	5.3	6.0	9.0	7.0	7.8
3	13.9	11.1	12.4	12.8	11.2	12.1	6.3	5.2	5.7	11.0	9.0	9.7
4	12.6	10.7	11.8	11.2	10.3	10.7	5.2	3.3	4.3	10.5	7.7	8.8
5	12.1	10.0	10.9	10.7	8.5	9.2	5.8	4.3	5.1	7.7	5.6	6.5
6	11.2	8.9	10.2	8.5	6.9	7.8	7.3	5.4	6.1	---	---	---
7	12.1	9.4	10.8	9.6	7.5	8.6	10.3	7.3	8.8	---	---	---
8	12.9	10.4	11.7	9.6	7.0	8.3	10.2	7.7	9.0	---	---	---
9	14.0	12.5	13.1	7.0	5.1	5.9	7.7	6.0	6.7	---	---	---
10	13.3	11.1	12.2	6.3	4.4	5.5	8.8	7.2	8.0	---	---	---
11	11.9	10.2	11.2	7.5	6.2	6.9	8.7	6.0	7.3	---	---	---
12	11.4	9.6	10.7	7.4	6.6	7.2	6.0	5.4	5.6	---	---	---
13	11.3	10.2	10.7	6.6	5.0	5.7	5.5	3.8	4.8	---	---	---
14	12.1	11.3	11.7	5.0	3.5	4.3	3.8	2.5	3.0	---	---	---
15	12.3	11.6	12.1	4.6	3.1	3.9	2.5	1.4	1.8	---	---	---
16	11.6	10.1	10.9	6.3	4.1	5.1	2.5	0.8	1.5	---	---	---
17	10.1	9.0	9.6	8.3	6.3	7.5	3.3	2.5	2.9	---	---	---
18	9.0	7.6	8.0	9.8	8.3	9.1	3.0	1.2	2.1	---	---	---
19	10.5	8.1	9.0	11.1	9.8	10.5	3.2	0.3	2.2	---	---	---
20	12.3	10.5	11.4	11.6	11.0	11.2	0.5	0.1	0.2	---	---	---
21	12.8	12.1	12.5	11.4	10.3	10.8	1.2	0.2	0.7	---	---	---
22	12.5	10.9	11.8	10.3	8.6	9.2	1.6	0.7	1.0	---	---	---
23	11.6	10.0	11.0	9.8	8.2	8.8	2.9	0.7	1.6	---	---	---
24	13.8	11.5	12.6	10.6	9.6	10.0	3.5	2.5	3.1	---	---	---
25	13.6	12.6	13.1	10.8	6.4	9.1	2.6	1.1	1.7	---	---	---
26	12.6	10.8	11.8	6.4	4.4	5.2	3.1	2.1	2.7	---	---	---
27	13.1	11.6	12.2	7.8	5.8	6.8	2.9	1.2	1.9	---	---	---
28	12.3	10.8	11.7	7.8	6.8	7.5	1.9	0.3	1.1	---	---	---
29	12.4	11.2	11.8	6.8	5.5	6.2	4.2	1.9	3.2	---	---	---
30	14.5	12.4	13.4	7.7	6.5	7.0	5.6	4.1	4.6	---	---	---
31	14.2	11.9	13.1	---	---	---	7.3	5.6	6.4	---	---	---
MONTH	14.9	7.6	11.7	12.9	3.1	8.1	10.3	0.1	4.1	11.0	5.6	8.0

03121850 Huff Run at Mineral City, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	8.2	7.5	7.9	10.3	9.0	9.7	13.1	10.9	11.8	11.0	10.6	10.9
2	7.9	7.4	7.7	10.2	9.4	9.8	12.1	11.7	11.9	11.3	10.9	11.1
3	8.5	7.5	8.0	10.1	9.5	9.9	12.0	11.7	11.9	12.0	9.8	10.7
4	9.4	7.5	8.3	10.4	10.0	10.2	12.7	12.0	12.3	11.4	9.9	10.9
5	10.3	7.6	9.0	11.1	10.2	10.9	12.3	11.7	12.0	12.0	11.4	11.7
6	10.9	8.2	9.0	11.6	11.0	11.3	11.8	11.2	11.6	---	---	---
7	9.4	8.9	9.1	11.4	10.8	11.1	11.2	10.1	10.6	---	---	---
8	9.3	8.9	9.0	11.8	10.7	11.3	11.3	10.1	10.8	---	---	---
9	9.0	8.6	8.8	12.6	11.8	12.3	11.9	11.3	11.6	---	---	---
10	9.3	8.6	9.1	12.8	11.7	12.2	11.3	10.7	11.0	---	---	---
11	9.8	9.1	9.4	11.7	11.2	11.4	11.7	10.7	11.2	---	---	---
12	9.9	9.3	9.6	11.5	11.1	11.3	11.8	11.6	11.7	---	---	---
13	9.6	9.2	9.4	12.2	11.5	11.9	12.1	11.6	11.8	---	---	---
14	9.2	8.9	9.1	12.8	12.2	12.5	12.5	12.1	12.3	---	---	---
15	8.9	8.7	8.8	12.8	12.5	12.6	12.5	12.1	12.3	---	---	---
16	9.5	8.8	9.2	12.5	11.7	12.2	12.1	11.1	11.8	---	---	---
17	9.9	9.4	9.7	11.7	10.9	11.3	11.1	10.3	10.7	---	---	---
18	10.7	9.7	10.4	10.9	10.3	10.6	10.3	9.4	10.0	---	---	---
19	10.7	9.8	10.5	11.6	10.0	10.6	9.4	9.0	9.1	---	---	---
20	9.9	9.2	9.7	12.4	10.2	11.4	---	---	---	---	---	---
21	9.4	9.2	9.3	12.9	10.5	11.8	---	---	---	---	---	---
22	9.7	9.2	9.5	13.4	11.0	12.4	---	---	---	---	---	---
23	9.9	9.5	9.7	13.5	10.7	12.2	---	---	---	---	---	---
24	9.6	8.9	9.2	12.9	10.4	12.2	---	---	---	---	---	---
25	9.1	8.9	9.0	13.4	12.0	12.6	---	---	---	---	---	---
26	9.7	9.1	9.4	14.8	13.1	14.0	---	---	---	---	---	---
27	9.5	9.1	9.3	14.0	12.8	13.5	---	---	---	---	---	---
28	9.6	9.2	9.3	13.7	12.9	13.4	11.9	11.3	11.5	---	---	---
29	9.4	9.0	9.3	14.6	13.7	14.1	11.3	10.9	11.1	---	---	---
30	9.1	8.5	8.8	14.0	13.0	13.8	11.2	10.8	11.0	---	---	---
31	9.1	8.5	8.8	---	---	---	11.3	10.6	10.8	---	---	---
MONTH	10.9	7.4	9.1	14.8	9.0	11.8	13.1	9.0	11.3	12.0	9.8	11.1

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	---	---	---	---	---	---	10.5	9.2	10.1	10.6	9.4	10.0
2	---	---	---	---	---	---	10.9	10.3	10.5	10.6	9.7	10.2
3	---	---	---	---	---	---	11.5	9.4	10.9	11.0	10.2	10.6
4	---	---	---	---	---	---	12.0	7.8	9.9	11.6	9.6	10.7
5	---	---	---	---	---	---	11.7	9.7	10.8	11.3	8.8	10.3
6	---	---	---	---	---	---	11.0	9.3	10.1	10.3	8.6	9.5
7	---	---	---	---	---	---	10.5	9.5	10.1	10.0	8.6	9.4
8	---	---	---	12.1	10.2	11.3	10.9	9.5	10.3	10.2	8.3	9.3
9	---	---	---	12.8	12.1	12.4	11.2	9.4	10.3	10.0	8.3	9.1
10	---	---	---	12.6	11.6	12.2	10.9	9.2	10.1	9.6	8.1	8.9
11	---	---	---	12.0	11.6	11.8	10.8	9.3	10.0	9.3	7.5	8.6
12	---	---	---	12.1	11.4	11.8	10.9	9.4	10.3	9.3	7.5	8.7
13	---	---	---	12.0	11.3	11.7	11.2	9.7	10.5	10.2	8.3	9.5
14	---	---	---	12.7	11.2	12.0	11.2	9.7	10.5	9.2	8.3	8.7
15	---	---	---	12.4	11.1	11.8	11.1	9.5	10.4	10.0	8.6	9.3
16	---	---	---	12.3	10.9	11.7	10.9	9.5	10.2	10.4	9.1	10.0
17	---	---	---	11.9	10.7	11.4	10.7	9.4	10.1	10.9	9.4	10.3
18	---	---	---	11.6	10.3	11.1	10.4	8.7	9.7	10.7	9.0	9.9
19	---	---	---	11.4	10.3	11.0	9.7	8.5	9.0	10.0	8.9	9.5
20	---	---	---	11.3	10.6	11.0	9.5	8.5	9.0	10.0	9.2	9.6
21	---	---	---	11.7	11.3	11.5	10.0	8.6	9.4	10.4	9.0	9.8
22	---	---	---	12.2	10.6	11.7	10.4	9.2	9.9	10.0	8.8	9.5
23	---	---	---	11.2	10.6	11.0	10.5	9.3	9.8	9.9	8.7	9.3
24	---	---	---	11.8	11.0	11.5	11.3	10.5	11.0	10.2	9.3	9.8
25	---	---	---	11.9	11.1	11.6	11.6	10.0	11.0	10.5	9.4	10.1
26	---	---	---	11.4	10.5	11.1	10.8	8.8	9.8	10.0	8.8	9.5
27	---	---	---	11.3	10.5	11.0	9.8	8.9	9.5	9.3	8.6	8.9
28	---	---	---	10.8	10.6	10.7	10.5	9.4	10.0	9.3	8.4	8.9
29	---	---	---	11.2	9.8	10.7	10.0	9.1	10.0	9.8	8.6	9.3
30	---	---	---	11.0	9.2	10.2	10.0	9.2	9.6	9.5	8.5	8.9
31	---	---	---	10.3	9.0	9.6	---	---	---	9.1	8.1	8.7
MONTH	---	---	---	12.8	9.0	11.3	12.0	7.8	10.1	11.6	7.5	9.5

03121850 Huff Run at Mineral City, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	8.9	8.1	8.5	---	---	---	7.8	7.0	7.4	8.2	5.6	7.1
2	8.7	8.0	8.3	---	---	---	7.7	7.1	7.4	8.3	7.1	7.5
3	8.4	7.9	8.1	---	---	---	8.0	7.1	7.6	8.6	8.0	8.3
4	8.0	7.2	7.7	---	---	---	7.7	6.7	7.3	9.8	8.4	8.9
5	7.4	6.7	7.1	---	---	---	7.9	6.7	7.4	11.6	9.8	10.9
6	8.5	6.4	7.2	---	---	---	7.9	7.6	7.7	12.1	10.6	11.5
7	8.7	8.3	8.4	---	---	---	7.6	7.2	7.4	11.5	9.9	10.8
8	8.7	8.3	8.5	---	---	---	7.5	6.9	7.2	10.5	9.4	10
9	8.8	7.9	8.4	---	---	---	7.3	6.6	7.0	9.5	8.7	9.2
10	8.5	7.6	8.2	---	---	---	9.4	6.7	8.8	9.2	8.4	8.8
11	8.1	7.5	7.8	---	---	---	9.1	8.5	8.8	9.1	8.3	e8.7
12	8.1	7.5	7.8	---	---	---	8.8	8.0	8.4	8.8	7.7	8.4
13	7.8	7.4	7.6	---	---	---	8.5	7.9	8.2	---	---	---
14	7.8	7.2	7.5	---	---	---	8.3	7.9	8.0	---	---	---
15	7.7	7.1	7.4	---	---	---	7.9	7.2	7.7	---	---	---
16	8.0	7.4	7.7	---	---	---	7.8	7.0	7.5	---	---	---
17	8.1	7.5	7.9	---	---	---	7.8	7.0	7.2	---	---	---
18	8.4	7.7	8.0	---	---	---	8.1	6.9	7.4	---	---	---
19	8.2	7.4	7.9	---	---	---	7.8	6.8	7.2	---	---	---
20	8.2	7.2	7.7	---	---	---	7.9	6.6	7.1	---	---	---
21	7.7	7.1	7.3	---	---	---	7.8	7.1	7.6	---	---	---
22	7.3	6.7	7.0	---	---	---	7.8	6.8	7.4	---	---	---
23	7.2	6.6	6.9	---	---	---	8.6	7.1	7.9	---	---	---
24	7.2	6.4	6.9	---	---	---	8.7	7.5	8.2	---	---	---
25	7.1	6.0	6.5	---	---	---	9.2	7.7	8.5	---	---	---
26	6.8	6.0	6.3	---	---	---	8.9	7.5	8.3	---	---	---
27	8.4	5.8	6.2	9.3	6.0	6.6	8.4	7.4	7.9	---	---	---
28	9.0	8.3	8.6	8.0	6.0	7.2	8.8	7.4	8.1	---	---	---
29	9.8	8.5	9.0	8.0	7.0	7.6	7.8	6.0	7.2	9.8	8.3	9.0
30	9.1	6.4	7.8	8.6	7.2	7.8	9.9	6.0	7.2	10.6	9.4	10.3
31	---	---	---	8.3	6.9	7.5	9.0	4.8	6.3	---	---	---
MONTH	9.8	5.8	7.7	9.3	6.0	7.3	9.9	4.8	7.7	12.1	5.6	9.2
YEAR	14.8	4.8	9.7									

e, estimated.

03124500 Sugar Creek at Strasburg, Ohio

LOCATION.—Latitude 40°35'15", longitude 81°31'24", in NW ¼ sec. 1, T.9 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on left bank 150 ft upstream from bridge on State Highway 21, 0.8 mi upstream from Broad Run, and 0.1 mi southeast of Strasburg, Ohio.

DRAINAGE AREA.—311 mi².

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, National Geodetic Vertical Datum of 1912. July 29, 1931-Mar. 31, 1933, and Dec. 10, 1934-July 31, 1939, nonrecording gage; Oct. 1, 1961-May 26, 1964, water-stage recorder at datum 2.00 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. Flood flow regulated by Beach City Lake 5 mi upstream, since August 1937. Part of municipal water supply for City of Canton, starting May 1962, is pumped from well field; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 2005, 15.7 ft³/s. Water-quality data formerly collected at this site.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	144	580	1660	1680	e538	e427	e553	124	78	61	1190
2	120	118	1270	1390	529	e531	e794	e438	112	60	51	1140
3	117	130	811	1570	380	e454	e1320	337	105	50	46	392
4	112	210	504	1720	343	e424	e1560	304	102	43	41	191
5	105	340	388	1360	322	e434	e1820	271	99	52	81	130
6	99	271	329	578	321	e478	e1710	247	93	198	279	103
7	94	194	316	466	356	e596	e782	230	93	139	146	86
8	92	157	424	1070	691	e686	e560	215	89	84	78	76
9	89	135	419	1960	1490	e586	e466	198	80	101	58	70
10	87	121	647	2080	1520	e466	e402	184	79	65	49	65
11	84	113	808	2110	1000	e442	e357	175	85	50	44	59
12	81	115	590	669	618	e434	e323	211	88	44	47	53
13	80	131	505	599	532	e422	e300	235	79	47	46	50
14	82	114	440	1120	524	e378	e277	400	73	88	57	48
15	84	100	372	2320	1090	e364	e238	686	73	154	83	45
16	90	97	332	2290	1150	e354	e212	442	70	146	57	49
17	94	97	315	2330	1010	e354	e198	298	69	92	53	82
18	89	104	294	2010	820	e352	e190	240	65	68	45	83
19	124	144	284	2460	546	e341	e184	206	61	59	38	59
20	162	510	219	2440	456	e344	e181	193	57	63	37	49
21	118	531	227	2460	457	e344	e286	196	55	51	44	45
22	99	355	244	2470	531	e321	e319	170	53	48	47	43
23	90	285	526	2390	466	e319	e485	159	53	86	35	53
24	98	256	1680	1320	415	e369	e1190	191	50	72	30	133
25	151	374	1600	1890	e466	e369	e1250	182	46	50	28	92
26	124	481	1500	1930	e445	e354	e1270	152	46	63	27	88
27	100	346	656	1920	e416	e354	e961	137	46	312	35	296
28	91	301	430	1670	e419	e411	e713	135	44	480	42	200
29	90	286	414	1890	---	e859	e540	163	47	231	37	125
30	170	249	459	1810	---	e683	e510	152	72	115	53	167
31	203	---	964	1850	---	e500	---	132	---	78	657	---
TOTAL	3348	6809	18547	53802	18993	13861	19825	7832	2208	3267	2432	5262
MEAN	108	227	598	1736	678	447	661	253	73.6	105	78.5	175
MAX	203	531	1680	2470	1680	859	1820	686	124	480	657	1190
MIN	80	97	219	466	321	319	181	132	44	43	27	43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-2005, BY WATER YEAR (WY)

	1991	1986	1978	7.70	36.9	32.2	151	90.2	72.6	25.3	11.8	11.2	3.34
MEAN	92.8	177	318	422	479	611	503	319	247	183	150	118	
MAX	583	929	1001	2025	1174	1297	953	1089	1123	2128	1219	1048	
(WY)	1991	1986	1978	1937	1981	1963	1980	1996	2004	1969	1935	1979	
MIN	0.00	4.08	1978	7.70	36.9	32.2	151	90.2	72.6	25.3	11.8	11.2	3.34
(WY)	1964	1964	1964	1977	1964	1987	1935	1986	1988	1988	1965	1962	1966

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1932-2005	
ANNUAL TOTAL	187714	156186		
ANNUAL MEAN	513	428	301	
HIGHEST ANNUAL MEAN			520	1980
LOWEST ANNUAL MEAN			160	1988
HIGHEST DAILY MEAN	2030	Feb 7	2470	Jan 22
LOWEST DAILY MEAN	70	Aug 17	27	Aug 26
ANNUAL SEVEN-DAY MINIMUM	79	Aug 12	33	Aug 23
MAXIMUM PEAK FLOW			2850	Jan 11
MAXIMUM PEAK STAGE			6.55	Jan 11
INSTANTANEOUS LOW FLOW			27	Aug 26
10 PERCENT EXCEEDS	1510		1270	
50 PERCENT EXCEEDS	300		212	
90 PERCENT EXCEEDS	108		50	

e Estimated.

03129000 Tuscarawas River at Newcomerstown, Ohio

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

DRAINAGE AREA.—2,443 mi².

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, National Geodetic Vertical Datum of 1912. Gage located 1.5 mi upstream from 1921 to Oct. 1, 1934. From 1921 to Sept. 28, 1925, non-recording gage at 785.03 ft above sea level; Sept. 28, 1925-Oct. 1, 1934, recording gage at 785.03 ft above sea level. Gage moved to current location Oct. 1, 1934. From Oct. 1, 1934-July 17, 1935, recording gage at 780.03 ft above sea level; July 18, 1935 -Feb. 13, 1939, non-recording gage at 780.03 ft above sea level; Feb. 13, 1939 to present, recording gage at 780.00 ft above sea level.

REMARKS.—Records excellent. Diversion from basin at Portage Lakes (see REMARKS for station 03117000). Flow regulated by eight flood-control reservoirs at points 40 mi to 64 mi upstream. Water-quality data formerly collected at this site. U.S. Army of Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913 reached a stage of about 21.5 ft, at site and datum used prior to Oct. 1, 1934, discharge, 83,000 ft³/s computed by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4910	2750	6740	7130	10300	3980	4700	6430	1810	927	861	6970
2	3690	2590	8740	7480	9810	4380	7000	5960	1720	803	750	6570
3	3220	2870	8890	8030	8850	4010	10200	5370	1590	725	694	4630
4	3060	3400	8160	10500	8740	3600	10300	5010	1510	655	638	2240
5	2940	3850	6940	11300	8620	3430	9830	4660	1440	663	634	1470
6	2860	3890	5630	14700	8560	3500	9520	4160	1370	1320	1800	1180
7	2790	3370	5710	11900	8640	3770	9200	3300	1290	1630	2160	1000
8	2700	2910	5680	9040	9110	4940	8180	2820	1240	1150	1410	883
9	2440	2640	6090	10100	9870	5660	7320	2620	1180	905	968	820
10	2290	2480	6700	11600	10400	5080	6970	2420	1150	822	763	765
11	2220	2220	7610	11800	10000	4410	6950	2310	1120	710	690	723
12	2140	2210	7220	14000	9170	4040	6780	2340	1120	647	655	679
13	1970	2260	6220	14600	8470	3850	5730	2810	1060	619	648	647
14	1680	2280	5780	14600	7880	3560	4440	2760	1010	729	707	621
15	1490	2150	5380	14700	9100	3270	3020	4810	978	1050	937	604
16	1470	2140	4850	14400	9660	2990	2670	5810	983	1420	754	593
17	1440	2260	4380	13900	9680	2790	2480	4470	994	1120	672	720
18	1410	2290	3930	13400	8980	2740	2360	3580	973	1000	608	768
19	1980	2550	3440	12900	8100	2700	2300	3160	916	924	583	699
20	2570	3780	3270	12700	7210	2690	2300	2770	854	863	550	630
21	2440	4880	2830	12700	7000	2730	2690	2610	808	812	612	584
22	2120	4320	2650	13000	6920	2830	3090	2410	775	744	611	555
23	1860	3850	6290	13200	6620	2740	3790	2190	749	934	603	575
24	1820	3830	9560	13400	5440	3240	6630	2290	724	975	534	819
25	1820	5200	9170	13300	4500	3820	8540	2650	694	754	498	892
26	1890	6110	8880	13100	3940	3440	8540	2320	761	806	482	899
27	1700	6170	7990	12000	3660	3170	8950	2030	837	1190	492	1820
28	1550	5380	6730	10800	3510	3370	8640	1900	702	3690	548	2570
29	1620	5000	7150	10700	---	5140	7920	2000	714	2720	530	1780
30	2500	4710	6850	10500	---	6260	7000	2070	882	1550	556	1610
31	3270	---	6380	10300	---	5430	---	1920	---	1080	4450	---
TOTAL	71860	104340	195840	371780	222740	117560	188040	101960	31954	33937	27398	45316
MEAN	2318	3478	6317	11990	7955	3792	6268	3289	1065	1095	884	1511
MAX	4910	6170	9560	14700	10400	6260	10300	6430	1810	3690	4450	6970
MIN	1410	2140	2650	7130	3510	2690	2300	1900	694	619	482	555
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)												
MEAN	983	1719	2669	3471	3920	4837	4416	3158	2212	1530	1187	1081
MAX	4257	7201	8471	16130	9762	11090	7909	9194	8339	7663	8648	7774
(WY)	1991	1986	1928	1937	1959	1945	1948	1996	1981	1969	1935	2004
MIN	227	253	255	354	422	969	1155	541	430	291	233	245
(WY)	1931	1931	1931	1931	1934	1931	1925	1934	1988	1930	1930	1930
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1922-2005		
ANNUAL MEAN				1916537			1512725					
HIGHEST ANNUAL MEAN				5236			4144			2591		
LOWEST ANNUAL MEAN										5218		
HIGHEST DAILY MEAN				14600			14700			45000		
LOWEST DAILY MEAN				997			482			170		
ANNUAL SEVEN-DAY MINIMUM				1130			520			197		
MAXIMUM PEAK FLOW							15200			46800		
MAXIMUM PEAK STAGE							10.32			20.65		
INSTANTANEOUS LOW FLOW							473			216		
10 PERCENT EXCEEDS				9000			9670			6730		
50 PERCENT EXCEEDS				4880			2790			1500		
90 PERCENT EXCEEDS				1900			705			425		

03136500 Kokosing River at Mount Vernon, Ohio

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

DRAINAGE AREA.—202 mi².

PERIOD OF RECORD.—February 1953 to current year.

REVISED RECORDS.—WSP 2107: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 981.16 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to May 21, 1991, gage at same site and at datum 3.00 ft higher.

REMARKS.—Records fair. Some regulation by Knox Lake, capacity, 3,750 acre-ft, 8.2 mi upstream on East Branch of North Branch Kokosing River beginning in 1954 and North Branch Kokosing River Lake, 14,886 acre-ft, 10 mi upstream on North Branch Kokosing River, beginning in June 1972. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	60	534	2160	194	295	350	419	92	81	54	784
2	53	63	480	1170	182	266	728	339	90	80	50	336
3	52	71	309	1770	180	240	1450	294	85	64	51	189
4	51	102	230	2630	170	218	1430	257	83	58	43	117
5	50	117	187	2580	166	229	793	231	80	72	68	96
6	49	103	157	5090	170	297	544	205	92	120	87	80
7	48	92	163	2470	213	419	474	186	124	100	74	72
8	48	83	248	1780	1250	428	398	172	103	77	61	69
9	46	75	253	1520	1450	310	338	157	90	66	54	63
10	47	71	370	1190	1010	250	298	145	278	58	50	59
11	47	70	354	1230	603	241	271	141	409	52	48	52
12	48	83	315	4590	458	227	248	161	219	49	45	51
13	48	76	266	2840	409	205	226	142	141	53	43	49
14	50	69	228	2610	417	187	200	299	113	57	49	49
15	51	70	184	1590	601	189	186	310	93	99	54	51
16	53	72	161	1210	564	202	158	240	87	93	55	57
17	51	76	150	867	613	213	149	194	79	96	53	60
18	55	95	141	578	445	210	146	164	76	94	50	59
19	69	168	141	502	344	204	140	149	70	86	47	57
20	66	322	119	447	313	254	137	161	67	101	49	55
21	63	254	121	403	354	253	176	151	65	80	63	55
22	59	196	121	378	398	216	173	135	64	74	61	53
23	57	169	212	338	331	252	581	131	61	92	54	71
24	63	160	261	309	288	324	1110	136	57	78	49	89
25	66	224	258	298	252	288	1090	125	57	65	44	78
26	63	212	219	285	243	395	1040	115	56	62	45	106
27	61	185	181	250	221	357	953	105	53	82	46	322
28	59	179	159	226	225	898	664	103	52	111	45	168
29	61	186	160	217	---	1180	486	109	53	96	44	118
30	63	177	254	219	---	617	454	105	57	74	76	132
31	62	---	1670	205	---	442	---	99	---	60	833	---
TOTAL	1713	3880	8606	41952	12064	10306	15391	5680	3046	2430	2445	3597
MEAN	55.3	129	278	1353	431	332	513	183	102	78.4	78.9	120
MAX	69	322	1670	5090	1450	1180	1450	419	409	120	833	784
MIN	46	60	119	205	166	187	137	99	52	49	43	49
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953-2005, BY WATER YEAR (WY)												
MEAN	63.2	136	238	293	338	409	385	279	206	143	80.1	71.4
MAX	275	635	979	1353	805	1068	845	820	909	636	438	587
(WY)	1991	1973	1991	2005	1975	1963	1964	1996	1998	1990	1980	1979
MIN	15.1	20.4	23.0	36.0	31.4	129	122	53.0	29.1	25.0	14.2	16.7
(WY)	1964	1972	1964	1964	1964	1983	1971	1955	1955	1965	2001	1954
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1953-2005		
ANNUAL TOTAL				110708			111110					
ANNUAL MEAN				302			304			221		
HIGHEST ANNUAL MEAN										327		
LOWEST ANNUAL MEAN										78.7		
HIGHEST DAILY MEAN				3050			Jan 5			14600		
LOWEST DAILY MEAN				46			Oct 9			8.6		
ANNUAL SEVEN-DAY MINIMUM				47			Oct 7			11		
MAXIMUM PEAK FLOW							6060			38000		
MAXIMUM PEAK STAGE							11.87			18.19		
INSTANTANEOUS LOW FLOW							37			8.6		
10 PERCENT EXCEEDS				704			607			485		
50 PERCENT EXCEEDS				188			146			104		
90 PERCENT EXCEEDS				60			52			30		

03139000 Killbuck Creek at Killbuck, Ohio

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

DRAINAGE AREA.—464 mi².

PERIOD OF RECORD.—October 1930 to current year.

REVISED RECORDS.—WSP 873: 1935. WSP 1555: 1935. WSP 1907: Drainage area. WDR-OH-70-1: 1969. WDR-OH-77-1: Drainage area: WDR-OH-87-1: 1984-86.

GAGE.—Water-stage recorder. Datum of gage is 788.05 ft above sea level. Prior to Oct. 1, 1949, nonrecording gage; Oct. 1, 1949-Oct. 5, 1976, water-stage recorder and nonrecording gage, at site 0.9 mi upstream at same datum.

REMARKS.—Records good. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	181	742	2200	537	777	749	1110	281	203	174	861
2	150	171	836	2360	510	727	1110	940	263	160	152	519
3	146	208	772	2680	516	670	1900	780	253	138	133	380
4	141	317	688	3810	501	635	2100	660	244	125	124	290
5	136	381	575	4050	492	634	2120	579	234	222	152	231
6	129	347	483	8980	501	633	2120	533	232	280	235	192
7	124	296	457	6390	560	672	1900	497	237	177	173	167
8	121	247	492	4030	1080	737	1500	459	227	157	140	147
9	116	209	473	3650	1510	702	1150	426	214	151	123	136
10	112	191	675	3190	1630	664	942	404	296	134	116	125
11	107	178	689	2910	1630	646	759	387	320	123	133	115
12	107	183	673	4680	1640	631	631	457	233	118	135	110
13	108	171	635	5120	1430	600	567	407	203	120	118	106
14	118	153	573	4110	1270	559	514	756	196	138	116	101
15	125	145	496	3600	1580	540	469	767	191	169	123	101
16	138	141	442	3110	1570	528	436	638	186	175	118	133
17	130	142	416	2810	1640	526	412	545	177	155	110	138
18	127	165	393	2440	1550	532	396	474	169	144	102	111
19	175	291	378	2100	1370	533	383	432	159	152	97	104
20	175	475	347	1720	1200	557	371	421	150	137	95	101
21	169	440	368	1420	1110	546	504	400	144	126	108	102
22	152	369	320	1200	1030	539	504	378	148	151	98	99
23	144	315	671	1060	987	553	977	383	142	176	97	151
24	185	295	1180	923	948	590	1680	410	133	149	90	181
25	190	359	993	904	873	599	1830	373	128	127	87	132
26	184	385	908	819	799	602	1930	345	131	134	85	201
27	170	365	784	719	714	578	1920	323	144	640	88	347
28	159	331	690	623	691	772	1790	311	136	414	92	285
29	172	292	646	618	---	976	1530	314	145	339	91	235
30	223	272	715	597	---	917	1260	296	181	264	114	212
31	197	---	1360	570	---	853	---	315	---	209	1070	---
TOTAL	4585	8015	19870	83393	29869	20028	34454	15520	5897	5907	4689	6113
MEAN	148	267	641	2690	1067	646	1148	501	197	191	151	204
MAX	223	475	1360	8980	1640	976	2120	1110	320	640	1070	861
MIN	107	141	320	570	492	526	371	296	128	118	85	99
CFSM	0.32	0.58	1.38	5.80	2.30	1.39	2.48	1.08	0.42	0.41	0.33	0.44
IN.	0.37	0.64	1.59	6.69	2.39	1.61	2.76	1.24	0.47	0.47	0.38	0.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-2005, BY WATER YEAR (WY)

MEAN	138	223	387	574	666	851	760	526	411	282	199	154
MAX	1015	1286	1509	2690	1648	1685	1400	1523	2281	3960	2147	1473
(WY)	1991	1986	1991	2005	1975	1978	1957	1996	1947	1969	1935	1979
MIN	26.8	37.1	38.1	42.3	71.6	124	170	71.8	69.9	39.6	34.7	25.6
(WY)	1964	1954	1964	1945	1934	1931	1935	1934	1988	1954	1932	1954

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931-2005	
ANNUAL TOTAL	244000		238340			
ANNUAL MEAN	667		653		430	
HIGHEST ANNUAL MEAN					698	
LOWEST ANNUAL MEAN					128	
HIGHEST DAILY MEAN	3250	Jun 18	8980	Jan 6	37200	Jul 6
LOWEST DAILY MEAN	74	Aug 18	85	Aug 26	23	Sep 10
ANNUAL SEVEN-DAY MINIMUM	82	Aug 12	90	Aug 23	23	Sep 8
MAXIMUM PEAK FLOW			10500		Jan 6a	47500
MAXIMUM PEAK STAGE			18.17		Jan 6	26.40
INSTANTANEOUS LOW FLOW			84		Aug 26	23
ANNUAL RUNOFF (CFSM)	1.44		1.41		0.93	
ANNUAL RUNOFF (INCHES)	19.56		19.11		12.58	
10 PERCENT EXCEEDS	1470		1560		1100	
50 PERCENT EXCEEDS	472		371		212	
90 PERCENT EXCEEDS	148		121		58	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03140000 Mill Creek near Coshocton, Ohio

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

DRAINAGE AREA.—27.2 mi².

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, National Geodetic Vertical Datum of 1912.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality data formerly collected at this site.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	218	60	e19	44	32	41	11	5.3	2.8	21
2	11	13	77	49	e18	34	284	35	9.1	3.5	2.7	9.8
3	10	22	53	253	e18	32	159	31	8.5	3.1	2.5	6.6
4	9.9	37	42	293	e18	31	81	28	7.9	3.0	2.4	5.4
5	9.2	30	34	565	20	32	59	25	7.3	3.3	6.1	4.8
6	9.1	22	31	909	26	32	49	24	7.0	5.2	7.8	4.4
7	8.5	18	37	197	47	34	45	22	6.4	3.2	3.5	4.1
8	8.4	15	33	219	174	41	39	20	5.9	3.0	2.9	3.8
9	8.3	13	56	127	110	30	34	18	5.5	2.7	2.6	3.7
10	8.2	12	97	90	67	29	31	17	5.3	2.5	2.6	3.6
11	8.0	12	58	291	46	30	27	18	6.8	2.4	2.8	3.3
12	7.9	15	49	768	43	30	25	29	5.5	2.5	2.7	3.3
13	8.3	12	43	234	37	27	23	17	5.0	2.9	2.5	3.3
14	8.5	10	34	343	123	24	20	27	5.0	11	3.6	3.2
15	9.9	10	29	126	104	23	19	21	5.0	7.4	3.1	3.2
16	12	11	27	89	77	22	17	16	4.7	14	3.2	13
17	10	11	26	67	57	22	16	15	4.5	4.5	3.4	15
18	12	14	24	65	44	21	16	13	4.0	3.6	2.6	4.7
19	22	104	24	52	40	20	16	13	3.8	3.8	2.5	3.7
20	10	81	21	47	36	22	28	18	3.7	3.2	4.8	3.4
21	9.0	49	20	43	47	20	68	14	3.5	2.9	5.1	3.2
22	8.4	38	21	44	37	18	33	12	4.5	7.2	2.9	2.8
23	8.3	33	470	35	33	23	191	16	3.6	4.3	2.5	3.7
24	17	39	110	30	31	23	128	17	3.3	3.0	2.4	3.6
25	9.5	55	65	29	29	21	130	12	3.2	3.1	2.3	3.0
26	8.1	38	40	30	28	21	71	11	3.2	5.3	2.4	17
27	7.8	33	35	26	25	20	66	10	3.1	16	2.7	8.2
28	7.3	34	35	22	35	109	49	15	3.4	5.3	3.1	4.6
29	33	28	36	e20	---	62	44	16	3.7	3.5	3.0	15
30	28	30	55	e20	---	45	49	13	3.6	3.1	28	6.7
31	15	---	83	e19	---	39	---	19	---	2.9	160	---
TOTAL	353.6	851	1983	5162	1389	981	1849	603	157.0	146.7	281.5	191.1
MEAN	11.4	28.4	64.0	167	49.6	31.6	61.6	19.5	5.23	4.73	9.08	6.37
MAX	33	104	470	909	174	109	284	41	11	16	160	21
MIN	7.3	10	20	19	18	18	16	10	3.1	2.4	2.3	2.8
CFSM	0.42	1.04	2.35	6.12	1.82	1.16	2.27	0.72	0.19	0.17	0.33	0.23
IN.	0.48	1.16	2.71	7.06	1.90	1.34	2.53	0.82	0.21	0.20	0.38	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-2005, BY WATER YEAR (WY)

MEAN	6.84	14.7	29.4	42.9	48.2	56.4	52.9	33.1	24.0	14.3	8.73	8.08
MAX	56.4	92.1	138	206	106	174	134	79.5	102	161	73.9	96.1
(WY)	1978	1986	1991	1937	1951	1963	1979	1996	1957	1969	1980	1979
MIN	0.10	0.42	0.60	1.49	2.69	15.2	7.87	5.59	1.28	0.57	0.28	0.14
(WY)	1964	1954	1964	1977	1954	1969	1971	1986	1988	1944	1962	1963

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1937-2005	
ANNUAL TOTAL	19454.5		13947.9			
ANNUAL MEAN	53.2		38.2		27.9	
HIGHEST ANNUAL MEAN					54.5 1979	
LOWEST ANNUAL MEAN					7.66 1954	
HIGHEST DAILY MEAN	691	Jan 4	909	Jan 6	2360	Jul 5 1969
LOWEST DAILY MEAN	6.6	Aug 18	2.3	Aug 25	0.00	Sep 28 1954
ANNUAL SEVEN-DAY MINIMUM	8.0	Aug 12	2.6	Aug 22	0.06	Aug 25 1962
MAXIMUM PEAK FLOW			1640	Jan 6a	8720	Jul 5 1969
MAXIMUM PEAK STAGE			11.00	Jan 6	15.38	Sep 14 1979
INSTANTANEOUS LOW FLOW			2.3	Aug 13	0.00	Sep 28 1954
ANNUAL RUNOFF (CFSM)	1.95		1.40		1.03	
ANNUAL RUNOFF (INCHES)	26.61		19.08		13.94	
10 PERCENT EXCEEDS	110		69		63	
50 PERCENT EXCEEDS	27		18		11	
90 PERCENT EXCEEDS	9.1		3.1		1.0	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03140500 Muskingum River near Coshocton, Ohio

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

DRAINAGE AREA.—4,859 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Sept. 19, 1936, nonrecording gage and Sept. 20, 1936–Sept. 30, 1977, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.—Records good. Flow regulated by 13 flood-control reservoirs at points 19 mi to 88 mi upstream. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913 reached a stage of about 28.8 ft, discharge, 202,000 ft³/s, computed by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6430	3900	10600	13700	19500	8080	8910	13200	3240	2360	1890	12000
2	4980	3520	14300	14200	19300	8230	11700	12100	2970	2160	1670	10000
3	4370	3830	14000	16100	18400	7560	17500	10800	2780	1810	1480	7480
4	4070	4620	12300	20300	18100	6830	17700	9470	2640	1620	1360	4490
5	4020	5590	10500	22800	17400	6530	18000	8430	2540	1500	1320	3020
6	3870	5790	8740	31300	16100	6540	18500	7370	2450	2390	1960	2460
7	3680	5190	8250	29900	14000	6880	17000	6270	2830	2720	3060	2140
8	3550	4480	8490	21500	14200	8220	15200	5450	2730	2250	2300	1950
9	3410	4030	8940	22100	17000	9010	12800	5030	2360	1860	1770	1740
10	3200	3640	10600	22400	20000	8390	11200	4750	2240	1670	1460	1620
11	3090	3400	11400	24300	19200	7650	10400	4540	2830	1500	1340	1500
12	3050	3370	11300	31500	17400	7020	9730	4590	2780	1360	1340	1400
13	2840	3340	10000	27200	15500	6710	8840	5080	2430	1350	1310	1330
14	2690	3290	9320	30800	14000	6290	7270	5320	2230	1400	1270	1280
15	2490	3130	8700	27000	15900	5810	5720	7810	2140	1740	1780	1220
16	2430	3020	7670	28100	17100	5450	5010	8550	2070	2290	1620	1230
17	2450	3100	6960	27000	16600	5210	4590	7480	2030	2260	1480	1560
18	2360	3250	6380	24900	16100	5250	4360	6200	1980	2120	1350	1630
19	3040	4270	5770	24000	14000	5160	4290	5360	1900	2020	1250	1420
20	3360	6400	5150	24100	12900	5140	4280	4930	1770	2260	1180	1290
21	3500	7710	4600	23700	12500	5300	4970	4710	1680	1790	1250	1200
22	3120	7170	4570	23500	12200	5410	6040	4380	1650	1700	1270	1150
23	2860	6460	11000	23300	11700	5320	7760	4060	1610	2260	1200	1150
24	2760	5950	14800	23100	10700	5730	13400	4120	1540	2240	1110	1520
25	2770	7350	12700	23200	9710	6600	16100	4520	1470	1780	1030	1770
26	2830	8970	12400	23000	8970	6220	16400	4060	1600	1640	992	1780
27	2740	9010	11300	22300	8460	6060	16700	3650	1910	1950	1000	3030
28	2580	8210	9930	20400	7880	6820	16500	3460	1610	4620	1060	4300
29	2470	7680	9810	20100	---	10900	15500	3530	1880	4560	1100	3400
30	3370	7200	10000	20000	---	11400	14300	3520	2330	3070	1190	2950
31	4250	---	11100	19700	---	10100	---	3400	---	2290	6670	---
TOTAL	102630	156870	301580	725500	414820	215820	340670	186140	66220	66540	50062	83010
MEAN	3311	5229	9728	23400	14820	6962	11360	6005	2207	2146	1615	2767
MAX	6430	9010	14800	31500	20000	11400	18500	13200	3240	4620	6670	12000
MIN	2360	3020	4570	13700	7880	5140	4280	3400	1470	1350	992	1150
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936-2005, BY WATER YEAR (WY)												
MEAN	1770	3019	4906	6642	7889	9577	9002	6366	4784	3200	2199	1926
MAX	7981	12310	14860	30880	20990	21070	16400	19350	17480	16640	12430	10320
(WY)	1991	1986	1991	1937	1959	1945	1957	1996	1947	1969	1980	2003
MIN	636	566	558	923	929	2520	2189	1611	921	637	645	499
(WY)	1992	1954	1964	1977	1964	1969	1946	1941	1988	1954	1954	1954
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1936-2005		
ANNUAL MEAN				3414010			2709862					
HIGHEST ANNUAL MEAN				9328			7424			5092		
LOWEST ANNUAL MEAN										2082		
HIGHEST DAILY MEAN				30600			Jan 5			77900		
LOWEST DAILY MEAN				1780			Aug 18			420		
ANNUAL SEVEN-DAY MINIMUM				1990			Aug 12			1070		
MAXIMUM PEAK FLOW										33600		
MAXIMUM PEAK STAGE										19.45		
INSTANTANEOUS LOW FLOW										971		
10 PERCENT EXCEEDS				17700			17800			13000		
50 PERCENT EXCEEDS				8180			4750			3020		
90 PERCENT EXCEEDS				3130			1490			874		

03141870 Leatherwood Creek near Kipling, Ohio

LOCATION.—Latitude 39°59'24", longitude 81°29'45", Guernsey County, Hydrologic Unit 05040005, on left bank at Deerfield Road bridge, 0.5 mi southeast of village of Kipling, Ohio, and 0.75 mi downstream from Hawkins Run.

DRAINAGE AREA.—69.5 mi².

PERIOD OF RECORD.—February 2000 to current year.

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

GAGE.—Water-stage recorder. Datum of gage is 795.78 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Satellite telemeter at gage.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	48	679	75	e38	250	105	104	27	5.8	0.56	62
2	31	41	339	62	e47	143	807	77	23	5.6	0.35	19
3	32	71	166	366	58	109	725	65	24	5.2	0.24	9.3
4	29	90	113	1130	86	96	275	57	35	4.8	0.21	5.5
5	27	95	94	1130	91	103	173	51	24	5.2	0.19	3.6
6	25	64	85	2410	93	110	130	47	22	13	0.17	2.4
7	24	52	104	1670	116	105	108	44	18	10	0.17	1.8
8	23	44	164	551	196	266	96	39	16	7.0	0.18	2.1
9	24	38	125	345	194	143	80	35	27	5.4	0.27	3.3
10	23	36	323	236	242	105	70	33	20	4.3	0.33	1.4
11	22	35	185	286	121	101	61	34	16	4.0	0.41	0.50
12	22	211	134	2900	94	110	55	51	14	3.4	0.37	0.21
13	22	120	118	1750	85	108	51	36	12	2.9	0.68	0.17
14	24	71	98	939	211	80	45	363	12	3.1	0.77	0.14
15	26	58	81	427	347	69	41	302	12	3.2	0.74	0.13
16	28	51	73	322	220	62	39	102	11	6.7	3.0	0.13
17	28	50	72	e240	159	58	38	66	14	7.5	11	0.25
18	30	69	67	e275	108	55	35	51	10	10	7.1	1.4
19	243	195	66	e230	84	51	34	44	9.0	11	4.7	0.87
20	82	208	72	e200	82	77	33	154	8.4	6.2	4.7	0.64
21	51	114	67	e170	203	62	43	79	8.2	4.7	7.2	0.50
22	41	85	69	e130	129	53	40	54	10	3.6	5.0	0.26
23	37	81	626	e100	93	257	300	53	10	2.7	2.6	2.8
24	62	105	443	e88	83	272	347	70	7.5	2.2	1.6	6.3
25	52	248	146	e74	82	143	313	48	6.4	2.0	1.5	4.5
26	39	134	98	e64	88	113	145	41	5.9	1.3	0.82	4.7
27	36	93	82	e56	82	93	436	33	5.5	1.7	0.83	7.0
28	34	117	77	e52	128	266	190	40	5.2	2.4	0.64	5.6
29	34	96	64	e47	---	446	106	50	5.3	1.8	2.6	10
30	58	84	72	e43	---	220	128	34	6.2	1.3	24	16
31	78	---	84	e39	---	141	---	32	---	0.94	197	---
TOTAL	1319	2804	4986	16407	3560	4267	5049	2289	424.6	148.94	279.93	172.50
MEAN	42.5	93.5	161	529	127	138	168	73.8	14.2	4.80	9.03	5.75
MAX	243	248	679	2900	347	446	807	363	35	13	197	62
MIN	22	35	64	39	38	51	33	32	5.2	0.94	0.17	0.13
CFSM	0.61	1.34	2.31	7.62	1.83	1.98	2.42	1.06	0.20	0.07	0.13	0.08
IN.	0.71	1.50	2.67	8.78	1.91	2.28	2.70	1.23	0.23	0.08	0.15	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000-2005, BY WATER YEAR (WY)

MEAN	26.4	64.0	101	190	120	124	138	102	71.5	17.9	40.0	148
MAX	68.8	169	161	529	175	146	194	151	121	52.8	141	711
(WY)	2004	2004	2005	2005	2000	2003	2000	2002	2003	2003	2003	2004
MIN	3.82	9.67	50.5	45.2	33.8	96.7	57.4	63.9	14.2	4.80	1.42	1.52
(WY)	2002	2001	2003	2002	2002	2002	2003	2001	2005	2005	2002	2002

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000-2005	
ANNUAL TOTAL	61948.6		41706.97			
ANNUAL MEAN	169		114		97.2	
HIGHEST ANNUAL MEAN					178 2004	
LOWEST ANNUAL MEAN					48.3 2002	
HIGHEST DAILY MEAN	8100	Sep 18	2900	Jan 12	8100	Sep 18 2004
LOWEST DAILY MEAN	5.7	Aug 18	0.13	Sep 15	0.00	Aug 30 2002
ANNUAL SEVEN-DAY MINIMUM	9.0	Jul 19	0.20	Aug 3	0.00	Sep 9 2002
MAXIMUM PEAK FLOW			4050	Jan 12a	10100	Sep 18 2004
MAXIMUM PEAK STAGE			14.73	Jan 12	17.21	Sep 18 2004
INSTANTANEOUS LOW FLOW			0.11	Sep 16	0.00	Sep 2 2003
ANNUAL RUNOFF (CFSM)	2.44		1.64		1.40	
ANNUAL RUNOFF (INCHES)	33.16		22.32		19.00	
10 PERCENT EXCEEDS	274		245		204	
50 PERCENT EXCEEDS	66		51		39	
90 PERCENT EXCEEDS	15		1.7		2.5	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03142000 Wills Creek at Cambridge, Ohio

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

DRAINAGE AREA.—406 mi².

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

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

GAGE.—Water-stage recorder. Datum of gage is 772.34 ft above sea level. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 mi downstream at different datum; Oct. 6, 1927–Sept. 30, 1928, and May 22, 1937–Oct. 18, 1938, nonrecording gage at present site and datum.

REMARKS.—Records good except for periods of estimated record, which are fair. Flow regulated by Senecaville Lake on Seneca Fork, 22 mi upstream, beginning in 1937. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	907	252	1880	460	1190	1240	947	1390	258	53	19	673			
2	897	284	2730	406	1170	1240	1930	1200	264	51	20	174			
3	900	328	2010	774	1190	942	3180	1060	256	46	23	78			
4	897	388	1300	2780	1250	821	3150	472	181	42	27	44			
5	894	502	1310	3790	1310	589	2210	247	139	41	24	29			
6	886	317	1230	5390	1370	631	1250	226	113	45	17	22			
7	882	220	1210	6370	1460	625	1130	315	95	56	18	21			
8	885	184	1400	5780	1690	1100	1190	330	84	41	19	24			
9	898	155	1410	4810	1820	1180	1150	307	83	36	18	21			
10	891	138	1850	3770	1730	866	1090	286	97	32	21	16			
11	875	242	1460	2640	1280	781	1030	187	82	29	29	15			
12	866	606	1160	3710	824	632	679	209	73	29	29	16			
13	882	962	1200	5340	696	574	785	226	64	30	20	21			
14	891	501	1110	5110	864	488	741	872	61	26	17	21			
15	884	398	1000	4450	2130	421	381	1770	59	27	18	18			
16	799	657	926	3540	1790	307	209	795	56	42	39	14			
17	735	716	717	2470	1460	268	172	645	54	41	41	20			
18	759	689	559	1440	1180	251	162	627	54	45	41	24			
19	944	899	541	1120	844	236	152	590	53	64	33	23			
20	1010	1380	457	972	742	274	253	1240	52	42	24	27			
21	486	1110	219	1100	994	298	288	1670	52	35	31	30			
22	200	855	168	1060	1030	254	213	987	57	35	28	27			
23	161	857	1320	1200	797	544	602	699	55	31	21	25			
24	175	884	2870	1260	530	1430	1980	423	50	25	17	42			
25	222	1590	e2000	1350	474	785	1930	289	43	23	16	37			
26	271	1730	e1500	1380	480	521	1560	231	39	34	16	55			
27	228	1140	e1170	1320	479	438	1730	377	41	38	21	66			
28	135	1000	868	1220	515	780	1760	289	45	29	24	52			
29	134	1010	512	1200	---	2610	1270	247	45	23	50	67			
30	168	959	418	1200	---	2750	1340	208	54	20	168	128			
31	277	---	459	1190	---	1690	---	168	---	18	799	---			
TOTAL	20039	20953	36964	78602	31289	25566	34464	18582	2659	1129	1688	1830			
MEAN	646	698	1192	2536	1117	825	1149	599	88.6	36.4	54.5	61.0			
MAX	1010	1730	2870	6370	2130	2750	3180	1770	264	64	799	673			
MIN	134	138	168	406	474	236	152	168	39	18	16	14			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-2005, BY WATER YEAR (WY)															
MEAN	110	319	512	646	780	854	779	554	383	200	162	157			
MAX	835	1912	1615	2536	1789	2361	1710	1890	1602	1690	1937	2756			
(WY)	1976	1986	1991	2005	1939	1945	1940	1996	1981	1998	1980	2004			
MIN	3.18	4.31	7.55	48.1	25.0	109	87.7	30.5	20.6	11.6	3.77	3.59			
(WY)	1954	1954	1954	1954	1954	1969	1941	1941	1988	1966	1962	1963			
SUMMARY STATISTICS															
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1937-2005			
ANNUAL TOTAL				357881				273765							
ANNUAL MEAN				978				750				451			
HIGHEST ANNUAL MEAN												981			
LOWEST ANNUAL MEAN												118			
HIGHEST DAILY MEAN				8730				6370				10800			
LOWEST DAILY MEAN				41				14				0.70			
ANNUAL SEVEN-DAY MINIMUM				52				17				1.6			
MAXIMUM PEAK FLOW								6440				11400			
MAXIMUM PEAK STAGE								21.22				26.91			
INSTANTANEOUS LOW FLOW								13				0.70			
10 PERCENT EXCEEDS				2210				1710				1200			
50 PERCENT EXCEEDS				602				472				188			
90 PERCENT EXCEEDS				77				24				19			

03144000 Wakatomika Creek near Frazeyburg, Ohio

LOCATION.—Latitude 40°07'57", longitude 82°08'53", in NW ¼ sec. 13, T.3 N., R.9 W., Muskingum County, Hydrologic Unit 05040004, on right bank 2.0 mi northwest of Frazeyburg, Ohio, 2 mi downstream from Fivemile Run, and 2.5 mi upstream from Black Run.

DRAINAGE AREA.—140 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	59	907	577	e170	243	215	205	56	87	11	197
2	45	59	601	407	e165	186	1070	180	53	56	10	76
3	44	94	368	1620	e160	161	1390	172	51	40	10	48
4	42	112	274	2850	e155	155	657	161	48	33	9.4	37
5	40	179	225	3140	e150	160	424	146	46	30	11	29
6	38	143	199	8380	e160	158	318	137	43	33	18	24
7	37	131	224	2390	e200	158	268	128	40	31	15	21
8	36	121	282	1270	782	168	231	122	37	25	12	19
9	36	101	286	847	766	151	193	115	35	32	11	17
10	35	91	797	577	450	140	180	108	34	26	9.6	17
11	34	84	505	813	280	134	175	101	54	20	8.9	15
12	32	89	368	4630	231	132	167	104	41	19	8.5	14
13	33	96	296	1800	202	130	159	92	35	19	8.2	14
14	35	88	235	2100	412	121	148	148	31	23	17	13
15	37	83	199	e1200	743	112	133	150	32	25	16	13
16	48	78	188	e900	446	106	118	108	36	22	13	16
17	54	74	181	e680	340	101	107	90	28	29	15	51
18	55	78	173	e540	251	97	100	79	24	24	13	31
19	262	385	169	e450	192	94	96	76	22	44	20	21
20	109	536	163	e380	184	93	91	266	20	40	17	17
21	76	333	161	e330	252	90	95	195	19	24	16	17
22	63	239	137	e300	210	85	102	133	25	20	14	15
23	57	201	1420	e250	173	85	411	115	25	19	12	21
24	94	201	e1410	e230	160	99	659	107	19	19	9.6	34
25	88	290	e700	e220	155	107	657	90	17	17	8.6	26
26	70	213	e400	e210	151	111	425	77	21	22	8.1	53
27	64	186	e280	e200	145	114	387	70	24	21	12	84
28	61	184	e200	e190	155	780	282	81	240	17	18	45
29	61	164	e205	e185	---	887	234	96	116	15	14	61
30	68	149	284	e180	---	403	232	72	52	14	22	53
31	67	---	708	e170	---	285	---	63	---	12	614	---
TOTAL	1868	4841	12545	38016	7840	5846	9724	3787	1324	858	1001.9	1099
MEAN	60.3	161	405	1226	280	189	324	122	44.1	27.7	32.3	36.6
MAX	262	536	1420	8380	782	887	1390	266	240	87	614	197
MIN	32	59	137	170	145	85	91	63	17	12	8.1	13
MED	48	126	280	577	196	132	223	108	35	24	12	23
CFSM	0.43	1.15	2.89	8.76	2.00	1.35	2.32	0.87	0.32	0.20	0.23	0.26
IN.	0.50	1.29	3.33	10.10	2.08	1.55	2.58	1.01	0.35	0.23	0.27	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	37.8	84.2	160	235	252	302	301	198	129	76.4	57.8	42.4
MAX	155	396	786	1226	560	883	654	601	745	432	720	617
(WY)	1987	1986	1991	2005	1990	1963	1940	1968	1998	1990	1980	1979
MIN	4.78	7.39	10.1	14.3	15.0	73.8	47.9	21.7	12.6	9.48	5.05	3.45
(WY)	1964	1954	1964	1964	1964	1983	1941	1941	1988	1944	1962	1953

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1937-2005	
ANNUAL TOTAL	100597		88749.9			
ANNUAL MEAN	275		243		156	
HIGHEST ANNUAL MEAN					270	
LOWEST ANNUAL MEAN					51.9	
HIGHEST DAILY MEAN	6100	Jan 5	8380	Jan 6	9200	Jun 28
LOWEST DAILY MEAN	19	Aug 18	8.1	Aug 26	2.6	Oct 3
ANNUAL SEVEN-DAY MINIMUM	23	Aug 12	10	Aug 7	2.7	Sep 25
MAXIMUM PEAK FLOW			9930		16800	
MAXIMUM PEAK STAGE			11.53		14.07	
INSTANTANEOUS LOW FLOW			8.0		2.0	
ANNUAL RUNOFF (CFSM)	1.96		1.74		1.11	
ANNUAL RUNOFF (INCHES)	26.73		23.58		15.11	
10 PERCENT EXCEEDS	576		517		346	
50 PERCENT EXCEEDS	154		101		65	
90 PERCENT EXCEEDS	44		17		11	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03145000 South Fork Licking River near Hebron, Ohio

LOCATION.—Latitude 39°59'19", longitude 82°28'30", in NW ¼ sec. 3, T.1 N., R.12 W., Licking County, Hydrologic Unit 05040006, on right bank at upstream side of bridge on county road, 800 ft downstream from Beaver Run, 2.3 mi north of Hebron, Ohio, and 2.5 mi upstream from Ramp Creek.

DRAINAGE AREA.—133 mi².

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

REVISED RECORDS.—WSP 923: 1940. WSP 1033: Drainage area.

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

REMARKS.—Records fair except for periods of estimated record, which are poor. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft, on unnamed tributary 5.6 mi upstream from station. Occasional diversion from Buckeye Lake into Jonathan Creek, which bypasses station. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 21, 1959, reached a stage of 12.4 ft present datum, from flood marks; discharge 5,880 ft³/s, by slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	16	93	1120	667	189	395	139	184	e36	83	6.9	190	
2	15	99	613	423	e190	174	848	156	33	23	6.8	51	
3	14	247	389	1300	e190	143	1360	140	30	14	7.2	29	
4	16	269	318	2070	e195	132	545	128	28	12	6.5	18	
5	16	314	280	2300	196	130	327	118	27	10	8.8	14	
6	14	150	261	2640	211	266	239	112	26	9.5	8.4	12	
7	14	111	318	2600	304	350	168	109	24	8.1	7.6	9.8	
8	15	91	397	2350	1130	257	152	104	21	7.8	7.3	9.0	
9	15	80	389	1560	950	133	129	100	e20	8.0	6.7	8.8	
10	15	75	1050	937	537	101	117	98	25	7.3	6.6	8.4	
11	16	76	501	1010	384	92	109	102	47	7.3	6.7	8.0	
12	17	270	388	2550	301	93	100	102	34	7.5	7.0	8.1	
13	19	175	313	2440	279	94	98	81	34	8.1	6.4	8.7	
14	20	107	289	2040	461	79	91	312	29	8.0	7.8	9.2	
15	23	117	312	1480	739	72	80	180	26	7.7	6.6	9.0	
16	23	149	285	678	438	67	44	91	22	11	11	19	
17	20	154	259	474	347	62	40	62	20	16	8.0	27	
18	66	286	239	399	261	58	40	52	18	15	11	12	
19	633	384	221	368	220	56	39	49	18	41	14	9.5	
20	187	457	218	341	220	102	38	650	22	12	12	13	
21	146	283	185	315	451	92	66	374	21	9.4	11	11	
22	118	208	181	300	322	73	74	219	21	8.3	6.5	10	
23	103	187	1100	278	236	158	525	187	18	8.0	6.2	14	
24	175	230	1200	e270	205	211	1090	172	16	7.5	5.9	14	
25	159	459	e390	255	190	144	1070	156	15	8.4	5.9	14	
26	122	237	e351	251	189	406	578	115	15	9.2	6.6	40	
27	110	186	273	228	175	199	552	e100	14	8.6	12	62	
28	104	194	243	209	191	970	314	e104	16	7.9	11	29	
29	105	223	243	207	---	1370	214	e94	16	7.8	13	29	
30	138	315	436	206	---	415	204	e80	73	6.6	96	35	
31	115	---	856	197	---	200	---	e42	---	6.7	660	---	
TOTAL	2569	6226	13618	31343	9701	7094	9390	4573	765	404.7	997.4	731.5	
MEAN	82.9	208	439	1011	346	229	313	148	25.5	13.1	32.2	24.4	
MAX	633	459	1200	2640	1130	1370	1360	650	73	83	660	190	
MIN	14	75	181	197	175	56	38	42	14	6.6	5.9	8.0	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-2005, BY WATER YEAR (WY)													
MEAN	41.8	174	212	216	251	248	238	180	142	91.6	67.1	50.4	
MAX	177	858	666	1011	536	860	616	768	554	572	503	607	
(WY)	1976	1986	1991	2005	1990	1945	1970	1996	1997	1992	1979	1979	
MIN	4.70	3.50	7.77	12.7	32.7	27.2	25.6	4.07	8.43	4.92	3.48	4.70	
(WY)	2000	1945	1944	1944	1944	1941	1941	1941	1988	1944	1942	1991	
SUMMARY STATISTICS													
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR		WATER YEARS 1940-2005			
ANNUAL MEAN				86750				87412.6					
HIGHEST ANNUAL MEAN				237				239		159			
LOWEST ANNUAL MEAN										273			
HIGHEST DAILY MEAN				2620				2640		4560			
LOWEST DAILY MEAN				14				5.9		0.00			
ANNUAL SEVEN-DAY MINIMUM				15				6.8		0.87			
MAXIMUM PEAK FLOW								3020		5200			
MAXIMUM PEAK STAGE								11.19		12.27			
INSTANTANEOUS LOW FLOW										0.00			
10 PERCENT EXCEEDS				578				540		416			
50 PERCENT EXCEEDS				128				104		50			
90 PERCENT EXCEEDS				21				8.2		8.1			

e Estimated

03146500 Licking River near Newark, Ohio

LOCATION.—Latitude 40°03'33", longitude 82°20'23", in T.2 N., R.11 W., Licking County, Hydrologic Unit 05040006, on right bank at downstream side of Stadden Bridge, 1 mi downstream from Shawnee Run, 1.5 mi upstream from Equality Run, and 3.5 mi east of Newark, Ohio.

DRAINAGE AREA.—537 mi².

PERIOD OF RECORD.—October 1939 to current year.

REVISED RECORDS.—WSP 973: 1940(M). WSP 1907: Drainage area.

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

REMARKS.—Records fair except for periods of estimated record, which are poor. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft, on South Fork 15.2 mi upstream. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	252	3250	3510	674	1160	808	908	288	529	84	2000
2	141	275	2110	2000	659	862	3250	757	259	239	82	802
3	137	500	1280	6830	676	754	5180	662	244	166	80	401
4	134	655	971	11200	650	716	2300	587	232	147	78	275
5	131	1110	810	11800	637	708	1460	520	222	142	111	221
6	130	638	720	21100	669	1010	1170	475	213	140	94	196
7	126	455	840	9600	867	1300	989	442	203	148	90	173
8	122	361	1190	5780	3980	1090	901	411	190	131	81	161
9	121	297	1110	3970	3520	782	785	380	184	132	e76	149
10	118	261	3030	2680	1980	642	700	363	200	117	e72	142
11	114	265	1750	3480	1300	607	637	390	227	114	e72	136
12	114	614	1300	15700	1040	589	578	509	193	113	e74	129
13	120	522	1060	9020	952	557	559	347	183	113	e70	126
14	118	351	862	9770	1360	490	496	1000	184	118	e74	123
15	146	306	800	6940	2370	454	451	788	168	119	e68	119
16	130	348	726	6220	1450	439	378	508	156	131	e70	169
17	122	351	673	5260	1230	419	349	380	151	193	79	210
18	287	586	622	4210	978	395	340	331	143	181	86	140
19	1510	1070	595	3330	834	390	331	346	140	270	109	125
20	618	1680	491	2420	821	518	325	2630	139	181	90	128
21	396	1130	488	1640	1210	516	382	1400	137	140	86	120
22	328	760	494	1250	1090	424	406	899	146	124	e72	113
23	283	638	2930	1080	881	669	1450	732	130	115	e68	124
24	443	709	2990	965	800	1010	3220	661	124	107	e64	157
25	486	1450	1530	956	737	768	3170	592	121	113	e62	163
26	372	870	1210	924	719	1200	1960	507	119	112	e63	359
27	316	653	868	842	671	932	2070	349	119	106	94	785
28	287	649	764	761	702	3980	1360	406	202	102	91	359
29	281	684	775	757	---	3680	1020	378	140	97	225	328
30	296	744	1390	747	---	1580	951	327	354	93	512	360
31	303	---	3940	714	---	1040	---	309	---	87	4600	---
TOTAL	8376	19184	41569	155456	33457	29681	37976	19294	5511	4620	7577	8793
MEAN	270	639	1341	5015	1195	957	1266	622	184	149	244	293
MAX	1510	1680	3940	21100	3980	3980	5180	2630	354	529	4600	2000
MIN	114	252	488	714	637	390	325	309	119	87	62	113

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-2005 BY WATER YEAR (WY)

MEAN	170	421	696	919	1022	1137	1045	727	573	362	257	188
MAX	914	2402	2867	5015	2577	3454	2404	2610	2151	2115	2017	2207
(WY)	1987	1986	1991	2005	1990	1963	1940	1996	1989	1990	1979	1979
MIN	39.5	41.1	43.1	65.0	59.5	207	166	91.5	76.3	58.5	58.3	36.7
(WY)	1954	1954	1954	1977	1964	1941	1941	1941	1988	1954	1963	1954

	SUMMARY STATISTICS		FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940-2005		
ANNUAL TOTAL			355100		371494				
ANNUAL MEAN			970		1018		624		
HIGHEST ANNUAL MEAN							1138	1990	
LOWEST ANNUAL MEAN							156	1954	
HIGHEST DAILY MEAN			17000	Jan 5	21100	Jan 6	25600	Jan 22	1959
LOWEST DAILY MEAN			114	Oct 11	62	Aug 25	28	Sep 27	1954
ANNUAL SEVEN-DAY MINIMUM			118	Oct 8	71	Aug 10	31	Sep 26	1954
MAXIMUM PEAK FLOW					23100	Jan 6	45000	Jan 21	1959
MAXIMUM PEAK STAGE					15.83	Jan 6	20.30	Jan 21	1959
INSTANTANEOUS LOW FLOW							28	Sep 27	1954
10 PERCENT EXCEEDS			1970		2190		1440		
50 PERCENT EXCEEDS			546		455		262		
90 PERCENT EXCEEDS			168		113		69		

e Estimated.

03149500 Salt Creek at Chandlersville, Ohio

LOCATION.—Latitude 39°54'31", longitude 81°51'37", Muskingum County, Hydrologic Unit 05040004, on left bank downstream of State Highway 146, 1 mi upstream from Buffalo Fork, 2 mi northwest of Chandlersville and 11 mi southeast of Zanesville.

DRAINAGE AREA.—75.7 mi².

PERIOD OF RECORD.—January 1935 to September 1947. November 1, 2000, to current year.

GAGE.—Water-stage recorder and crest gage. Datum of gage is 695.14 ft, NAVD 1988. Prior to 1947 at site 300 ft upstream at different datum.

REMARKS.—Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	28	e24	749	67	e56	218	115	91	34	25	4.1	59	
2	27	e25	263	71	e55	139	1170	74	32	19	3.7	25	
3	26	e30	154	e190	e54	115	591	64	30	15	3.6	16	
4	25	40	109	e1220	e53	104	253	56	28	13	3.0	12	
5	22	48	86	e2800	e52	110	163	49	27	12	3.1	9.2	
6	19	33	75	e1970	e50	110	127	46	24	20	3.3	7.9	
7	18	30	83	e1070	89	109	108	44	22	14	3.9	7.1	
8	18	26	78	453	172	222	95	41	20	11	3.8	6.4	
9	17	23	113	291	164	122	79	38	19	10	3.3	5.8	
10	17	21	322	216	153	104	71	36	18	9.3	3.1	5.2	
11	17	21	158	634	106	101	64	37	56	8.6	4.3	4.6	
12	17	138	120	2620	103	98	58	78	26	7.4	3.2	4.3	
13	17	68	99	489	99	89	56	45	20	7.0	2.8	4.2	
14	17	42	79	836	217	76	49	242	19	14	2.7	4.0	
15	17	35	63	325	203	70	45	165	19	12	2.5	3.8	
16	17	32	56	229	197	65	42	83	17	17	15	5.6	
17	17	31	54	173	166	63	39	62	15	18	8.3	11	
18	26	35	49	150	116	60	39	51	14	24	8.0	8.7	
19	111	94	49	e140	99	58	37	47	13	38	11	6.4	
20	36	113	49	e120	95	78	35	766	12	24	7.2	5.8	
21	26	76	47	e112	196	65	38	223	12	14	8.5	5.1	
22	22	60	50	e103	118	59	40	116	18	15	4.8	4.7	
23	19	55	1670	e95	103	121	262	91	15	13	3.8	20	
24	26	72	415	e88	e98	126	285	80	12	9.3	3.3	18	
25	e27	572	171	e81	92	98	266	64	10	8.2	3.1	12	
26	e25	201	121	e74	91	104	135	53	9.5	9.8	2.9	27	
27	e24	123	84	e71	83	92	210	44	8.8	10	9.2	31	
28	e24	112	85	e68	130	768	116	54	70	8.1	11	16	
29	e25	83	68	e62	---	546	90	59	94	6.8	38	34	
30	e26	76	65	e60	---	218	110	42	26	5.7	66	18	
31	e25	---	72	e58	---	150	---	37	---	4.7	286	---	
TOTAL	778	2339	5656	14936	3210	4458	4788	2978	740.3	422.9	536.5	397.8	
MEAN	25.1	78.0	182	482	115	144	160	96.1	24.7	13.6	17.3	13.3	
MAX	111	572	1670	2800	217	768	1170	766	94	38	286	59	
MIN	17	21	47	58	50	58	35	36	8.8	4.7	2.5	3.8	
CFSM	0.33	1.03	2.41	6.36	1.51	1.90	2.11	1.27	0.33	0.18	0.23	0.18	
IN.	0.38	1.15	2.78	7.34	1.58	2.19	2.35	1.46	0.36	0.21	0.26	0.20	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936-2005, BY WATER YEAR (WY)													
MEAN	19.5	53.1	81.2	146	148	181	164	126	96.4	38.9	29.5	47.0	
MAX	82.1	199	187	536	371	510	339	324	234	146	107	416	
(WY)	1937	1937	1943	1937	1936	1945	1940	2004	1946	1937	1941	2004	
MIN	2.18	4.74	8.29	13.4	35.5	43.5	20.3	10.9	2.87	3.39	1.32	1.80	
(WY)	1944	1945	1940	1944	1944	1941	1941	1941	1936	1944	2002	2002	
SUMMARY STATISTICS													
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1936-2005	
ANNUAL TOTAL				64373.8				41240.5					
ANNUAL MEAN				176				113				95.9	
HIGHEST ANNUAL MEAN												179	2004
LOWEST ANNUAL MEAN												54.4	1944
HIGHEST DAILY MEAN				4100	Sep 9			2800	Jan 5	4100	Sep 9	2004	
LOWEST DAILY MEAN				5.0	Aug 18			2.5	Aug 15	0.00	Jul 22	1936	
ANNUAL SEVEN-DAY MINIMUM				6.4	Aug 12			3.1	Aug 9	0.01	Aug 9	1944	
MAXIMUM PEAK FLOW								5620	Jan 12a	13500	Sep 8	2004	
MAXIMUM PEAK STAGE								18.49	Jan 12	22.26	Sep 8	2004	
INSTANTANEOUS LOW FLOW								2.4	Aug 15	0.00	Jul 22	1936	
ANNUAL RUNOFF (CFSM)				2.32				1.49				1.27	
ANNUAL RUNOFF (INCHES)				31.63				20.27				17.21	
10 PERCENT EXCEEDS				339				206				216	
50 PERCENT EXCEEDS				72				49				34	
90 PERCENT EXCEEDS				17				6.9				3.1	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03150000 Muskingum River at McConnelsville, Ohio

LOCATION.—Latitude 39°38'42", longitude 81°51'00", in SE ¼ sec.11, T.10.N., R.12 W., Morgan County, Hydrologic Unit 05040004, on left bank just upstream from Dam 7 at McConnelsville, and 3.5 mi downstream from Oilspring Run.

DRAINAGE AREA.—7,422 mi².

PERIOD OF RECORD.—October 1921 to September 1992. October 2001 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, National Geodetic Vertical Datum of 1912. Prior to July 27, 1922 nonrecording gage at site 0.5 mi upstream at same datum; July 27, 1922-Aug. 10, 1926, nonrecording gage; Aug. 11, 1926-Sept. 8, 1959, water-stage recorder at present site and datum; Sept. 9, 1959-July 18, 1960, nonrecording gage at site 0.5 mi upstream at same datum.

REMARKS.—Records good. Flow regulated by 17 flood-control reservoirs 36.6 mi to 148 mi upstream from station. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 1913 reached a stage of 33.5 ft, discharge, 270,000 ft³/s computed by U.S. Army Corps of Engineers.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13000	5660	17800	16600	32700	13300	16800	19800	4950	3530	2670	15100
2	12200	5210	22500	21100	32200	13500	23300	18000	4680	4030	2310	14700
3	11300	5260	21800	24300	31700	12800	27900	16100	4400	3380	2050	10800
4	10600	5990	19400	33100	30800	11800	29400	14300	4190	2820	1860	7380
5	10400	7600	17200	40400	29000	11000	28500	12800	4070	2570	1690	4800
6	10300	8310	14700	54800	28100	10700	28300	11100	3940	2570	1680	3670
7	9270	7990	12900	49500	26900	10900	27800	9570	3790	3230	2560	3080
8	7020	6930	13200	37900	25100	13200	25400	8260	4100	3240	3100	2700
9	5800	5990	13600	29900	26200	13100	21000	7510	3750	2950	2560	2470
10	5340	5480	18400	32000	28300	12900	17000	7050	3410	2510	2160	2270
11	5080	5190	19500	35600	28700	12300	15200	6690	3610	2230	1830	2050
12	4940	6170	19000	53700	27200	11300	14100	6850	3970	2100	1660	1900
13	4840	5910	17100	41100	24900	10600	13200	7080	3610	1960	1630	1740
14	4530	5820	14500	40400	22600	9910	11600	8710	3410	2020	1590	1650
15	4370	5920	13500	42400	22800	9110	9740	10300	3240	2040	1550	1580
16	4180	5580	12200	39900	24700	8820	8170	12300	3180	2450	2220	1540
17	4180	5270	11100	41100	25600	8020	7380	12400	3170	3120	2000	1830
18	4290	5400	10100	39800	23800	7700	6710	10400	3110	2940	1840	2000
19	6490	6610	9410	38200	21700	7590	6250	8650	2950	2890	1800	1990
20	8120	10100	8280	38000	19400	7710	6190	14400	2790	3140	1620	1930
21	7560	12300	7380	38100	18100	7680	6510	12100	2730	2960	1540	1920
22	6130	12300	7390	37600	18400	7830	7630	10800	2770	2430	1550	1630
23	5130	10600	19500	37200	17800	8400	14300	9200	2740	2360	1580	1680
24	4740	9930	26700	36700	16300	8910	20000	7870	2640	2890	1510	1740
25	4570	13200	23200	36700	14500	9990	24900	7560	2510	2750	1350	2040
26	4650	14100	21100	36900	13400	10700	26100	7110	2430	2430	1230	2420
27	4670	14200	19300	36300	12500	10200	26600	6170	2570	2300	1370	3080
28	4200	13200	15600	35200	12200	15800	25700	5610	2790	2980	1530	4630
29	3950	12000	13900	33900	---	22800	24600	6020	3070	5320	1880	5040
30	4330	11200	13700	33500	---	21900	23500	5770	3100	4420	2600	3990
31	5260	---	14000	33300	---	20200	---	4950	---	3300	7360	---
TOTAL	201440	249420	487960	1145200	655600	360670	543780	305430	101670	89860	63880	113350
MEAN	6498	8314	15740	36940	23410	11630	18130	9853	3389	2899	2061	3778
MAX	13000	14200	26700	54800	32700	22800	29400	19800	4950	5320	7360	15100
MIN	3950	5190	7380	16600	12200	7590	6190	4950	2430	1960	1230	1540
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)												
MEAN	2558	4528	7868	10550	12200	14990	13690	9435	6804	4516	3479	2950
MAX	11780	19260	26010	51270	29380	36270	26180	23550	22650	18920	26280	16660
(WY)	1927	1986	1928	1937	1959	1945	1940	1983	1981	1969	1935	2004
MIN	643	731	833	1111	1173	2316	3337	1564	1361	711	494	590
(WY)	1931	1954	1964	1931	1934	1931	1941	1934	1930	1930	1930	1932
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1922-2005		
ANNUAL TOTAL				5068080			4318260					
ANNUAL MEAN				13850			11830			7773		
HIGHEST ANNUAL MEAN										13830		
LOWEST ANNUAL MEAN										2658		
HIGHEST DAILY MEAN				50200			54800			124000		
LOWEST DAILY MEAN				2600			1230			325		
ANNUAL SEVEN-DAY MINIMUM				2900			1450			448		
MAXIMUM PEAK FLOW							60400			126000		
MAXIMUM PEAK STAGE							13.77			21.14		
INSTANTANEOUS LOW FLOW							1190			325		
10 PERCENT EXCEEDS				25600			28400			20000		
50 PERCENT EXCEEDS				12400			7710			4460		
90 PERCENT EXCEEDS				4900			2030			1160		

Surface-Water Records—Hocking River Basin

03157000 Clear Creek near Rockbridge, Ohio

LOCATION.—Latitude 39°35'18", longitude 82°34'43", in NE ¼ sec. 20, T.13 N., R.18 W., Hocking County, Hydrologic Unit 05030204, on left bank at upstream side of county road bridge, 400 ft downstream from unnamed right bank tributary, 2 mi upstream from mouth, and 3 mi west of Rockbridge, Ohio.

DRAINAGE AREA.—89 mi².

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 and crest gage. Datum of gage is 760.13 ft, National Geodetic Vertical Datum of 1912. Prior to May 2, 1940, nonrecording gage at same site and datum.

REMARKS.—Records poor Oct. 1 to Mar.15; records good Mar. 16 to Sept. 30. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	38	62	543	137	93	119	167	124	44	40	13	39	
2	39	66	269	118	89	94	705	111	42	25	13	21	
3	38	94	186	413	92	e92	581	103	43	21	12	17	
4	35	234	176	553	94	e88	263	94	40	20	12	16	
5	38	182	117	544	99	e86	198	85	37	23	12	14	
6	32	120	109	506	127	e90	165	81	35	27	20	14	
7	33	98	132	496	208	119	151	78	35	20	19	13	
8	31	80	132	512	465	e312	136	74	35	19	15	13	
9	31	71	159	403	321	e155	118	70	77	18	13	13	
10	30	73	312	281	278	e120	108	68	44	17	13	13	
11	31	68	174	410	176	e100	99	64	38	17	13	12	
12	39	178	152	586	155	e90	94	67	37	17	13	12	
13	48	122	126	638	177	e82	95	62	35	18	12	12	
14	46	96	103	525	254	e76	83	97	33	22	11	12	
15	58	84	95	393	250	e73	77	82	32	21	11	12	
16	58	81	94	304	190	73	73	66	31	22	12	13	
17	46	97	91	229	166	71	71	61	30	22	12	13	
18	172	370	88	190	151	68	70	58	28	19	14	13	
19	461	419	85	192	138	70	69	63	26	18	18	13	
20	166	340	232	158	146	91	67	82	25	18	14	17	
21	310	199	232	129	145	76	63	67	24	23	15	15	
22	140	155	101	127	111	72	89	60	23	21	12	14	
23	81	136	679	112	81	96	486	60	22	17	12	15	
24	128	143	352	136	83	112	614	55	21	16	11	18	
25	98	322	192	127	80	92	530	52	21	15	11	26	
26	82	228	133	125	82	103	253	50	20	15	11	26	
27	71	206	102	115	79	93	221	48	20	15	13	27	
28	68	146	91	122	89	1140	167	55	19	16	13	18	
29	65	118	95	121	---	569	146	51	20	15	26	19	
30	66	128	120	114	---	277	144	47	22	13	41	18	
31	66	---	147	102	---	205	---	48	---	13	125	---	
TOTAL	2645	4716	5619	8918	4419	4904	6103	2183	959	603	562	498	
MEAN	85.3	157	181	288	158	158	203	70.4	32.0	19.5	18.1	16.6	
MAX	461	419	679	638	465	1140	705	124	77	40	125	39	
MIN	30	62	85	102	79	68	63	47	19	13	11	12	
CFSM	0.96	1.77	2.04	3.23	1.77	1.78	2.29	0.79	0.36	0.22	0.20	0.19	
IN.	1.11	1.97	2.35	3.73	1.85	2.05	2.55	0.91	0.40	0.25	0.23	0.21	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-2005, BY WATER YEAR (WY)													
MEAN	30.0	54.5	89.5	119	144	168	156	124	76.9	55.4	43.4	30.3	
MAX	126	327	351	324	321	585	365	554	287	280	292	213	
(WY)	1976	1986	1991	1949	1979	1945	1940	1968	1941	1948	1979	1979	
MIN	11.5	13.1	12.8	20.5	18.8	39.1	41.3	31.1	14.9	13.3	11.5	9.37	
(WY)	1964	1965	1964	1977	1954	1941	1941	1988	1988	1999	1999	1999	
SUMMARY STATISTICS													
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1940-2005	
ANNUAL MEAN				56237				42129					
HIGHEST ANNUAL MEAN				154				115				90.6	
LOWEST ANNUAL MEAN												164	1979
HIGHEST DAILY MEAN				2000				1140				4690	1968
LOWEST DAILY MEAN				15				11				3.5	1942
ANNUAL SEVEN-DAY MINIMUM				18				12				6.3	1942
MAXIMUM PEAK FLOW								2170				16000	1948
MAXIMUM PEAK STAGE								7.27				17.68	1948
INSTANTANEOUS LOW FLOW								11				3.0	1991
ANNUAL RUNOFF (CFSM)				1.73				1.30				1.02	
ANNUAL RUNOFF (INCHES)				23.51				17.61				13.84	
10 PERCENT EXCEEDS				342				272				185	
50 PERCENT EXCEEDS				90				77				45	
90 PERCENT EXCEEDS				39				14				16	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03157500 Hocking River at Enterprise, Ohio

LOCATION.—Latitude 39°33'54", longitude 82°28'29", in NW ¼ sec. 5, T.14 N., R.17 W., Hocking County, Hydrologic Unit 05030204, on right bank at upstream side of bridge at Enterprise, Ohio, 4.0 mi downstream from Buck Run, and 4.3 mi upstream from Scott Creek.

DRAINAGE AREA.—459 mi².

PERIOD OF RECORD.—October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305.

REVISED RECORDS.—WSP 873: 1938. WDR-OH-70-1: 1969. WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 723.58 ft above sea level. 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, constructed between 1955 and 1961 upstream from station. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1907 reached a stage of 22.0 ft from flood mark; discharge, 36,000 ft³/s from reports of U.S. Army Corps of Engineers.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	170	317	2230	639	482	851	1060	746	273	416	70	377	
2	162	300	1790	571	464	746	3130	634	253	235	68	191	
3	155	363	1140	1390	472	654	3740	567	247	149	67	126	
4	149	649	831	5230	485	625	1890	509	235	123	66	99	
5	140	908	678	7120	494	621	1340	464	220	118	66	87	
6	133	585	596	13300	579	735	1040	441	207	160	73	81	
7	129	472	623	9920	784	765	880	418	193	126	74	77	
8	126	405	721	6760	1470	1710	790	398	184	105	69	74	
9	124	359	617	3000	1390	1130	678	374	257	95	67	72	
10	122	330	1710	1910	1260	860	614	360	210	90	65	70	
11	118	314	1210	2520	945	755	560	350	238	87	82	68	
12	117	743	962	7990	792	701	523	397	201	85	70	67	
13	145	762	785	5700	732	640	527	366	182	90	66	66	
14	147	520	645	4800	855	559	479	555	169	99	62	66	
15	157	438	553	2700	1440	514	435	665	162	95	61	66	
16	180	415	505	1850	1100	480	408	465	159	125	63	67	
17	157	425	476	1450	958	461	389	398	151	152	66	75	
18	278	1060	445	1180	787	443	382	360	137	124	70	67	
19	1680	1360	429	1050	663	429	372	352	128	113	88	66	
20	966	1750	334	962	625	556	360	507	121	102	72	74	
21	1500	1130	382	871	660	507	351	493	131	114	73	73	
22	762	815	427	811	630	459	432	403	134	99	67	69	
23	514	685	3550	683	570	519	1900	376	119	88	65	70	
24	564	636	3680	603	541	612	3460	399	109	81	61	254	
25	487	1650	1650	680	529	535	3100	355	102	79	58	299	
26	400	1280	1090	675	519	606	1750	320	98	83	58	202	
27	357	876	767	589	498	587	1430	294	94	87	61	217	
28	356	775	606	484	522	3030	1070	308	95	81	63	135	
29	330	665	561	538	---	4440	858	365	121	78	113	138	
30	330	589	598	525	---	2010	820	309	140	74	159	118	
31	358	---	649	506	---	1380	---	297	---	71	885	---	
TOTAL	11313	21576	31240	87007	21246	28920	34768	13245	5070	3624	3048	3511	
MEAN	365	719	1008	2807	759	933	1159	427	169	117	98.3	117	
MAX	1680	1750	3680	13300	1470	4440	3740	746	273	416	885	377	
MIN	117	300	334	484	464	429	351	294	94	71	58	66	
CFSM	0.80	1.57	2.20	6.11	1.65	2.03	2.52	0.93	0.37	0.25	0.21	0.25	
IN.	0.92	1.75	2.53	7.05	1.72	2.34	2.82	1.07	0.41	0.29	0.25	0.28	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-2005, BY WATER YEAR (WY)													
MEAN	129	255	432	672	776	932	856	624	383	272	219	161	
MAX	670	1864	1844	3605	1899	2875	2228	2499	1446	1437	1686	1087	
(WY)	1976	1986	1991	1937	1979	1945	1940	1968	1981	1958	1980	1979	
MIN	33.4	41.1	40.5	100	58.0	181	184	95.3	68.1	60.4	39.9	30.4	
(WY)	1954	1954	1964	1977	1954	1941	1941	1934	1936	1999	1932	1953	
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1932-2005	
ANNUAL TOTAL				297402				264568					
ANNUAL MEAN				813				725				474	
HIGHEST ANNUAL MEAN												860	
LOWEST ANNUAL MEAN												110	
HIGHEST DAILY MEAN				10300		Jan 5		13300		Jan 6		21600	
LOWEST DAILY MEAN				62		Sep 7		58		Aug 25		23	
ANNUAL SEVEN-DAY MINIMUM				68		Sep 1		62		Aug 22		27	
MAXIMUM PEAK FLOW								15200				26000	
MAXIMUM PEAK STAGE								18.15		Jan 6		21.31	
INSTANTANEOUS LOW FLOW												23	
ANNUAL RUNOFF (CFSM)				1.77				1.58				1.03	
ANNUAL RUNOFF (INCHES)				24.10				21.44				14.04	
10 PERCENT EXCEEDS				1710				1440				1060	
50 PERCENT EXCEEDS				493				427				216	
90 PERCENT EXCEEDS				128				73				59	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

03158200 Monday Creek at Doanville, Ohio

LOCATION.—Latitude 39°26'07", longitude 82°11'30", Athens County, Hydrologic Unit 05030204, on right bank 75 ft upstream from Lang Street bridge in Doanville, Ohio, 1.75 mi above mouth, and 2.5 mi south of Nelsonville, Ohio.

DRAINAGE AREA.—114 mi².

Water-Discharge Records

PERIOD OF RECORD.—May 1997 to current year. Low-flow site 1961-71.

REVISED RECORDS.—WDR OH-00-1: 1999(P).

GAGE.—Water stage recorder. Elevation of gage is 650 ft above sea level (from topographic map).

REMARKS.—Records fair except for periods of estimated record which are poor. Four-parameter water-quality monitor at site. Satellite transmitter at site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	35	75	812	126	106	425	274	325	58	138	8.7	112	
2	32	60	704	113	104	281	1100	232	52	70	8.0	45	
3	31	63	306	160	111	202	1440	192	50	34	7.4	27	
4	29	85	204	1100	118	188	662	167	47	24	7.0	19	
5	27	171	162	1770	119	190	365	148	43	20	7.0	15	
6	26	116	146	e3500	129	248	285	138	39	55	7.2	12	
7	24	93	151	e2300	156	265	245	126	35	35	7.2	11	
8	23	74	179	e1500	270	326	223	116	33	23	6.8	10	
9	22	59	169	1070	356	247	189	104	45	19	6.6	9.5	
10	21	52	581	488	374	186	169	96	44	16	6.5	8.9	
11	20	48	361	676	241	168	154	91	33	14	6.4	8.1	
12	20	147	265	2700	189	162	141	105	29	13	6.1	8.0	
13	20	202	207	1920	170	154	145	102	28	12	5.9	7.6	
14	21	117	167	1370	290	134	132	122	27	12	5.6	7.0	
15	21	95	140	998	470	120	115	203	27	13	5.4	6.7	
16	22	87	125	501	306	112	105	123	26	28	5.5	7.1	
17	24	99	119	366	235	107	98	96	25	90	5.5	7.7	
18	41	226	112	262	183	102	94	83	24	43	16	8.9	
19	299	340	106	256	142	99	90	79	22	32	117	9.3	
20	265	590	80	233	147	154	86	206	21	26	31	8.8	
21	282	291	100	203	156	143	81	220	20	20	15	8.6	
22	121	183	88	187	144	120	85	129	19	19	10	7.9	
23	86	147	721	e130	124	158	800	105	18	19	8.5	7.9	
24	86	152	1310	e120	120	214	1380	103	17	15	7.2	7.4	
25	91	513	389	e110	118	165	1190	89	16	20	6.5	22	
26	66	367	213	e105	118	180	540	76	15	23	6.5	23	
27	57	212	145	e100	117	165	554	66	15	14	7.4	27	
28	61	193	123	96	157	739	357	67	14	12	9.1	23	
29	58	170	126	117	---	1930	270	91	15	11	29	21	
30	57	143	123	111	---	929	322	72	29	12	48	49	
31	98	---	126	108	---	370	---	64	---	9.9	232	---	
TOTAL	2086	5170	8560	22796	5270	8983	11691	3936	886	891.9	656.0	545.4	
MEAN	2086	5170	8560	22796	5270	8983	11691	3936	886	891.9	656.0	545.4	
MAX	67.3	172	276	735	188	290	390	127	29.5	28.8	21.2	18.2	
MIN	299	590	1310	3500	470	1930	1440	325	58	138	232	112	
MED	20	48	80	96	104	99	81	64	14	9.9	5.4	6.7	
CFSM	32	145	162	256	152	180	234	105	27	20	7.2	9.4	
IN.	0.59	1.51	2.42	6.45	1.65	2.54	3.42	1.11	0.26	0.25	0.19	0.16	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997-2005, BY WATER YEAR (WY)													
MEAN	27.6	71.4	114	242	176	207	256	188	121	40.0	64.3	60.1	
MAX	71.0	236	276	735	242	290	390	340	240	86.1	347	253	
(WY)	2004	2004	2005	2005	2004	2005	2005	2004	2004	2003	1997	2004	
MIN	8.15	14.1	29.4	60.4	59.5	178	112	52.3	15.8	9.03	7.79	5.43	
(WY)	2000	1999	1999	2001	2002	2004	2003	1999	1999	1999	2002	1998	
SUMMARY STATISTICS													
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1997-2005	
ANNUAL MEAN				75050				71471.3					
HIGHEST ANNUAL MEAN				205				196				127	
LOWEST ANNUAL MEAN												208	2004
HIGHEST DAILY MEAN				2200 Jan 5				3500 Jan 6				4200 Aug 18	1997
LOWEST DAILY MEAN				13 Sep 6				5.4 Aug 15				3.2 Sep 13	2002
ANNUAL SEVEN-DAY MINIMUM				15 Sep 1				5.8 Aug 11				3.6 Sep 8	2002
MAXIMUM PEAK FLOW								4250 Jan 6				5300 Aug 18	1997
MAXIMUM PEAK STAGE								19.06 Jan 6				19.60 Aug 18	1997
INSTANTANEOUS LOW FLOW								5.1 Aug 17				3.0 Sep 13	2002
ANNUAL RUNOFF (CFSM)				1.80				1.72				1.12	
ANNUAL RUNOFF (INCHES)				24.49				23.32				15.19	
10 PERCENT EXCEEDS				486				368				289	
50 PERCENT EXCEEDS				120				102				52	
90 PERCENT EXCEEDS				27				9.0				8.5	

e Estimated.

03158200 Monday Creek at Doanville, Ohio—Continued

Water-Quality Records

PERIOD OF RECORD.—June 1997 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: June 1997 to current year.

pH: June 1997 to current year.

WATER TEMPERATURE: June 1997 to current year.

DISSOLVED OXYGEN: June 1997 to current year.

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunction of the instrument. Specific conductance and water temperature records are good except April 12-May 1, which are fair. pH records are good except Apr. 2-13, which are poor, and Apr. 14-May 1, which are fair. Dissolved oxygen records are fair except Nov. 23-Dec. 7 and Dec. 21-Jan. 21, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 1,110 microsiemens, Sept. 20, 1998; minimum, 136 microsiemens, Sept. 17, 2004.

pH: Maximum, 7.5 units Mar. 23, 2001; minimum, 3.0 units May 30, 1998.

WATER TEMPERATURE: Maximum, 28°C, July 5, 6, 23, 24, and 31, 1999; minimum, 0.0°C, on many days during winter.

DISSOLVED OXYGEN: Maximum, 15.3 mg/L, Dec. 25, 1999; minimum, 3.5 mg/L, May 28, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 997 microsiemens, Aug. 18; minimum, 170 microsiemens, Jan. 6.

pH: Maximum, 6.9 units, Sept. 30; minimum, 3.7 units, June 29-30 and Aug. 18-19.

WATER TEMPERATURE: Maximum, 26.2°C, Aug. 13; minimum, 0.2°C, Jan. 24.

DISSOLVED OXYGEN: Maximum, 14.8 mg/L, Dec. 28; minimum, 6.3 mg/L, Aug. 14-16 and 18.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	698	687	691	590	559	579	453	277	336	529	525	526
2	701	697	698	579	559	572	346	277	310	533	527	530
3	711	701	706	589	577	583	390	346	369	538	465	528
4	720	711	716	590	576	583	425	390	409	465	275	342
5	723	720	721	582	547	565	455	425	439	294	180	235
6	732	723	727	547	510	516	470	455	462	184	170	176
7	737	732	733	538	518	529	483	465	473	292	172	211
8	744	737	741	554	538	546	480	469	475	396	292	361
9	749	744	747	571	554	563	488	449	481	466	396	426
10	754	749	752	583	571	577	449	337	375	536	466	503
11	757	753	755	591	583	587	382	345	362	566	230	506
12	757	753	755	588	529	567	407	382	395	230	189	205
13	765	752	759	529	469	493	437	407	421	432	221	324
14	769	762	766	498	470	484	458	437	446	444	347	391
15	773	767	770	520	498	509	479	458	469	512	353	436
16	784	771	778	536	520	529	500	478	491	606	512	562
17	795	783	791	537	517	534	510	500	505	686	606	644
18	795	656	770	519	440	488	525	510	519	775	686	730
19	710	480	634	453	381	418	538	525	531	782	763	773
20	526	371	448	397	327	351	570	538	555	784	774	780
21	482	383	414	403	359	380	591	566	575	810	784	793
22	476	413	444	433	403	419	592	587	590	827	807	817
23	521	476	500	458	433	445	589	271	440	875	818	840
24	552	521	543	465	450	462	326	240	265	916	870	891
25	573	546	556	450	342	398	402	326	369	907	834	863
26	579	573	576	378	341	358	452	402	424	871	842	856
27	591	579	584	415	378	398	487	452	467	863	841	848
28	600	591	594	429	415	424	511	487	500	926	855	892
29	614	595	603	444	429	436	535	507	520	910	833	869
30	615	601	611	457	444	452	532	527	530	886	851	867
31	618	590	607	---	---	---	532	528	530	863	824	844
MONTH	795	371	661	591	327	492	592	240	453	926	170	599

03158200 Monday Creek at Doanville, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	5.0	4.9	4.9	6.5	6.3	6.4	6.7	6.4	6.6	5.9	5.8	5.9
2	4.9	4.9	4.9	6.3	6.2	6.3	6.6	6.4	6.4	5.9	5.7	5.7
3	4.9	4.9	4.9	6.3	6.2	6.2	6.4	6.4	6.4	5.7	5.6	5.7
4	4.9	4.9	4.9	6.3	6.2	6.3	6.4	6.3	6.4	6.3	5.7	6.3
5	4.9	4.8	4.9	6.8	6.2	6.6	6.3	6.3	6.3	6.3	6.1	6.1
6	4.8	4.8	4.8	6.7	6.6	6.6	6.3	6.2	6.2	6.2	6.1	6.2
7	4.8	4.8	4.8	6.6	6.5	6.5	6.4	6.2	6.2	6.1	5.7	6.0
8	4.8	4.8	4.8	6.5	6.4	6.4	6.6	6.4	6.6	5.7	5.0	5.1
9	4.8	4.8	4.8	6.4	6.3	6.4	6.6	6.4	6.5	5.0	4.6	4.8
10	4.8	4.8	4.8	6.3	6.2	6.3	6.7	6.3	6.5	4.6	4.5	4.5
11	4.8	4.7	4.7	6.2	6.2	6.2	6.4	6.3	6.4	4.7	4.4	4.5
12	4.7	4.7	4.7	6.4	6.1	6.2	6.3	6.3	6.3	5.6	4.7	5.3
13	4.7	4.7	4.7	6.6	6.4	6.6	6.3	6.2	6.3	5.6	4.6	5.3
14	4.7	4.7	4.7	6.6	6.5	6.6	6.2	6.1	6.2	4.7	4.5	4.6
15	4.7	4.7	4.7	6.5	6.5	6.5	6.1	6.0	6.1	4.7	4.5	4.5
16	4.7	4.6	4.7	6.5	6.4	6.5	6.0	5.9	6.0	4.5	4.4	4.4
17	4.7	4.6	4.6	6.5	6.4	6.5	5.9	5.9	5.9	4.4	4.3	4.4
18	4.8	4.7	4.7	6.7	6.5	6.6	5.9	5.9	5.9	4.3	4.3	4.3
19	6.6	4.7	6.1	6.7	6.5	6.6	5.9	5.9	5.9	4.3	4.3	4.3
20	6.6	5.6	6.4	6.7	6.6	6.6	5.9	5.5	5.9	4.3	4.3	4.3
21	6.6	6.4	6.6	6.6	6.6	6.6	5.8	5.5	5.6	4.3	4.2	4.3
22	6.5	6.3	6.4	6.6	6.5	6.5	5.8	5.6	5.7	4.2	4.1	4.2
23	6.3	6.2	6.3	6.5	6.5	6.5	6.5	5.8	6.0	4.2	4.1	4.2
24	6.2	5.9	6.0	6.5	6.4	6.5	6.5	6.2	6.5	4.1	4.0	4.0
25	6.3	6.1	6.3	6.7	6.4	6.6	6.2	6.0	6.1	4.3	4.0	4.2
26	6.3	6.2	6.2	6.7	6.5	6.6	6.1	6.0	6.1	4.3	4.2	4.3
27	6.2	6.0	6.2	6.5	6.5	6.5	6.0	5.8	6.0	4.3	4.2	4.3
28	6.2	6.0	6.0	6.6	6.5	6.5	5.8	5.5	5.7	4.2	4.0	4.1
29	6.2	6.1	6.2	6.6	6.5	6.5	5.8	5.7	5.8	4.3	4.1	4.2
30	6.1	6.1	6.1	6.5	6.4	6.4	5.8	5.7	5.8	4.3	4.2	4.2
31	6.5	6.0	6.2	---	---	---	5.8	5.8	5.8	4.4	4.3	4.3
MAX	6.6	6.4	6.6	6.8	6.6	6.6	6.7	6.4	6.6	6.3	6.1	6.3
MIN	4.7	4.6	4.6	6.2	6.1	6.2	5.8	5.5	5.6	4.1	4.0	4.0

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	4.4	4.3	4.4	5.7	4.8	5.4	5.5	5.0	5.3	5.9	5.5	5.8
2	4.4	4.4	4.4	5.7	5.5	5.6	6.1	5.0	6.0	5.5	5.1	5.3
3	4.5	4.4	4.4	5.5	5.2	5.4	6.1	6.1	6.1	5.1	4.9	5.1
4	4.5	4.2	4.4	5.2	5.0	5.2	6.1	6.1	6.1	5.0	4.8	4.9
5	4.5	4.3	4.4	5.2	5.0	5.1	6.1	6.1	6.1	5.0	4.8	4.8
6	4.6	4.4	4.5	5.6	5.1	5.5	6.1	6.0	6.0	4.9	4.6	4.7
7	4.7	4.6	4.7	5.7	5.5	5.6	6.0	6.0	6.0	4.6	4.5	4.6
8	5.0	4.7	4.8	5.9	5.4	5.5	6.0	6.0	6.0	4.6	4.5	4.5
9	5.1	5.0	5.0	6.0	5.2	5.7	6.0	5.9	5.9	4.5	4.5	4.5
10	5.3	5.0	5.3	5.2	5.0	5.1	5.9	5.9	5.9	4.5	4.4	4.5
11	5.2	4.8	5.0	5.0	4.9	5.0	5.9	5.8	5.8	4.5	4.4	4.4
12	4.8	4.8	4.8	4.9	4.9	4.9	5.8	5.7	5.8	4.6	4.3	4.4
13	4.8	4.7	4.8	4.9	4.9	4.9	5.7	4.9	5.7	4.7	4.6	4.6
14	5.1	4.7	4.7	4.9	4.8	4.9	5.0	5.0	5.0	4.8	4.6	4.7
15	5.7	5.1	5.5	4.8	4.8	4.8	5.1	5.0	5.0	6.1	4.8	5.9
16	5.4	5.0	5.1	4.8	4.8	4.8	5.1	4.9	5.0	5.9	5.0	5.5
17	5.0	4.9	5.0	4.8	4.8	4.8	5.0	4.9	5.0	5.0	4.8	4.9
18	4.9	4.8	4.8	4.9	4.8	4.8	5.0	5.0	5.0	4.9	4.8	4.8
19	4.8	4.7	4.8	4.8	4.7	4.8	5.0	4.8	4.9	4.8	4.8	4.8
20	4.8	4.7	4.7	5.2	4.7	4.8	4.9	4.8	4.8	6.3	4.8	4.9
21	4.7	4.7	4.7	5.2	5.1	5.2	4.9	4.8	4.9	6.4	6.2	6.4
22	4.7	4.7	4.7	5.1	4.9	5.0	4.9	4.8	4.9	6.2	5.7	6.0
23	4.7	4.7	4.7	5.1	4.9	4.9	5.8	4.9	5.4	5.7	5.3	5.5
24	4.7	4.6	4.6	5.7	5.1	5.6	6.0	5.8	5.9	5.4	5.2	5.3
25	4.7	4.7	4.7	5.6	5.3	5.5	6.0	6.0	6.0	5.4	5.2	5.3
26	4.7	4.7	4.7	5.4	5.2	5.2	6.0	6.0	6.0	5.2	5.0	5.2
27	4.7	4.7	4.7	5.4	5.3	5.3	6.0	5.8	6.0	5.0	4.9	5.0
28	4.8	4.7	4.7	5.7	5.2	5.2	5.9	5.8	5.9	4.9	4.9	4.9
29	---	---	---	6.2	5.7	6.0	5.9	5.5	5.8	5.3	4.9	5.0
30	---	---	---	6.2	5.8	6.0	5.8	5.3	5.6	5.4	5.3	5.3
31	---	---	---	5.8	5.5	5.7	---	---	---	5.3	5.0	5.1
MAX	5.7	5.1	5.5	6.2	5.8	6.0	6.1	6.1	6.1	6.4	6.2	6.4
MIN	4.4	4.2	4.4	4.8	4.7	4.8	4.9	4.8	4.8	4.5	4.3	4.4

03158200 Monday Creek at Doanville, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	5.0	4.9	5.0	6.4	4.1	5.2	4.2	4.1	4.1	6.5	6.3	6.5
2	4.9	4.9	4.9	6.4	6.0	6.2	4.1	4.1	4.1	6.5	6.3	6.4
3	4.9	4.9	4.9	6.0	5.1	5.6	4.1	4.1	4.1	6.3	6.0	6.1
4	4.9	4.8	4.9	5.1	4.5	4.7	4.1	4.1	4.1	6.0	5.7	5.9
5	4.8	4.8	4.8	4.5	4.3	4.4	4.1	4.0	4.1	5.7	5.4	5.6
6	4.8	4.8	4.8	5.7	4.2	4.3	4.0	4.0	4.0	5.4	4.9	5.1
7	---	---	---	5.8	5.6	5.8	4.0	3.9	4.0	4.9	4.5	4.6
8	---	---	---	5.6	4.6	4.9	4.0	3.9	3.9	4.5	4.3	4.4
9	---	---	---	4.6	4.5	4.5	3.9	3.9	3.9	4.3	4.3	4.3
10	4.7	4.5	4.6	4.5	4.4	4.5	4.0	3.9	3.9	4.3	4.2	4.2
11	4.6	4.4	4.5	4.4	4.4	4.4	3.9	3.9	3.9	4.2	4.2	4.2
12	4.4	4.3	4.4	4.4	4.3	4.4	3.9	3.9	3.9	4.2	4.2	4.2
13	4.3	4.3	4.3	4.3	4.3	4.3	3.9	3.9	3.9	4.2	4.2	4.2
14	4.4	4.3	4.3	4.3	4.3	4.3	3.9	3.9	3.9	4.5	4.1	4.2
15	4.3	4.0	4.1	---	---	---	3.9	3.9	3.9	4.3	4.2	4.2
16	4.1	4.1	4.1	---	---	---	3.9	3.8	3.8	4.3	4.2	4.3
17	4.1	4.1	4.1	5.7	4.7	4.9	3.8	3.8	3.8	4.3	4.2	4.2
18	4.1	4.1	4.1	5.8	5.0	5.4	3.8	3.7	3.8	4.3	4.2	4.2
19	4.1	4.0	4.1	5.0	4.3	4.4	6.5	3.7	5.9	4.6	4.2	4.5
20	4.1	4.0	4.0	4.9	4.5	4.8	6.3	5.4	5.5	4.6	4.4	4.5
21	4.0	4.0	4.0	4.9	4.4	4.5	5.7	5.1	5.6	4.4	4.4	4.4
22	4.0	4.0	4.0	4.5	4.2	4.3	5.1	4.9	4.9	4.4	4.4	4.4
23	4.0	3.9	3.9	4.2	4.1	4.1	5.0	4.8	4.9	4.5	4.4	4.4
24	3.9	3.9	3.9	4.3	4.2	4.3	4.8	4.5	4.6	4.5	4.4	4.4
25	3.9	3.9	3.9	4.3	4.1	4.2	4.5	4.4	4.5	6.1	4.4	4.4
26	3.9	3.8	3.8	4.4	4.2	4.3	4.5	4.4	4.4	6.1	5.5	6.0
27	3.8	3.8	3.8	4.3	4.2	4.2	4.4	4.3	4.4	5.7	4.7	5.0
28	3.8	3.8	3.8	4.2	4.1	4.2	4.3	4.2	4.3	6.5	5.7	6.3
29	3.8	3.7	3.7	4.2	4.1	4.1	4.6	4.1	4.3	6.6	6.0	6.5
30	4.3	3.7	4.2	4.2	4.1	4.2	6.2	4.4	5.9	6.9	5.7	6.8
31	---	---	---	4.2	4.2	4.2	6.3	4.9	5.8	---	---	---
MAX	5.0	4.9	5.0	6.4	6.0	6.2	6.5	5.4	5.9	6.9	6.3	6.8
MIN	3.8	3.7	3.7	4.2	4.1	4.1	3.8	3.7	3.8	4.2	4.1	4.2
YEAR	MAX	MAXIMUM 6.9 MINIMUM 3.8		MIN	MAXIMUM 6.6 MINIMUM 3.7		MEDIAN	MAXIMUM 6.8 MINIMUM 3.7				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	16.0	14.6	15.3	13.9	12.6	13.0	9.1	6.3	8.1	7.7	6.5	7.1
2	16.1	15.5	15.7	13.8	12.5	13.2	7.9	6.2	6.8	8.6	7.7	8.0
3	15.5	14.1	14.7	13.8	12.7	13.2	6.2	5.5	5.8	10.0	8.6	9.2
4	14.4	13.0	13.8	12.9	12.3	12.6	5.6	4.7	5.1	9.9	8.7	9.2
5	13.9	12.3	13.0	12.4	10.6	11.6	5.6	4.6	5.1	8.7	7.0	7.8
6	12.6	11.1	11.9	10.6	9.3	10	7.1	5.4	6.2	7.0	6.4	6.7
7	12.3	10.7	11.6	10.6	8.9	9.8	9.9	7.1	8.4	6.4	5.8	6.0
8	13.0	11.2	12.1	10.4	8.7	9.5	9.9	9.2	9.7	6.5	5.8	6.3
9	14.1	12.7	13.3	8.7	7.1	7.8	9.2	8.4	8.6	6.9	6.4	6.6
10	14.3	13.4	13.9	7.6	6.2	7.0	8.9	8.2	8.5	7.1	6.5	6.7
11	13.8	12.1	12.8	8.3	6.9	7.6	8.9	7.9	8.6	8.1	6.7	7.1
12	12.7	11.3	12.1	8.5	8.0	8.2	7.9	6.8	7.2	8.8	8.1	8.4
13	13.0	12.0	12.4	8.1	6.9	7.6	6.8	5.3	6.1	10.4	8.8	9.7
14	13.3	13.0	13.1	6.9	5.7	6.3	5.3	3.6	4.5	10.4	7.3	9.1
15	13.2	12.2	12.8	6.0	4.9	5.5	3.6	2.7	3.2	7.3	5.0	5.8
16	12.2	11.1	11.6	6.7	5.7	6.1	2.8	1.9	2.4	5.0	3.7	4.4
17	11.1	10.0	10.7	8.3	6.7	7.3	3.5	2.7	3.0	3.7	1.6	2.4
18	10.5	9.0	9.4	10.1	8.3	9.1	3.4	2.3	2.8	1.6	0.7	1.0
19	10.4	9.2	9.7	11.6	10.1	10.9	3.5	1.4	3.0	1.7	0.8	1.2
20	12.9	10.4	11.8	12.2	11.6	11.9	1.4	0.3	0.5	2.3	1.7	2.1
21	13.8	12.8	13.5	12.1	11.7	11.9	1.3	0.3	0.6	2.2	1.5	1.9
22	13.8	12.7	13.3	11.7	10.8	11.2	2.4	1.3	2.0	1.7	1.2	1.5
23	13.3	11.9	12.5	10.8	10.5	10.7	2.9	1.9	2.4	1.2	0.5	0.8
24	14.5	12.9	13.6	11.2	10.5	10.8	1.9	0.7	1.0	0.9	0.2	0.5
25	13.9	12.6	13.4	11.2	9.2	10.5	1.1	0.3	0.7	1.8	0.8	1.2
26	13.5	11.9	12.9	9.2	6.9	7.5	1.6	0.8	1.2	2.0	1.6	1.8
27	13.5	13.1	13.3	7.4	6.5	7.0	1.4	0.7	1.0	1.8	0.9	1.4
28	14.3	13.0	13.6	7.8	7.4	7.7	1.4	0.6	1.0	1.3	0.4	0.9
29	14.6	13.3	13.8	7.5	6.8	7.1	3.1	1.3	2.1	1.8	1.0	1.4
30	15.4	14.0	14.6	7.5	6.8	7.0	4.6	3.1	3.8	2.6	1.8	2.1
31	15.3	13.9	14.5	---	---	---	6.5	4.6	5.5	2.1	1.1	1.7
MONTH	16.1	9.0	12.9	13.9	4.9	9.3	9.9	0.3	4.4	10.4	0.2	4.5

03158200 Monday Creek at Doanville, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	---	---	---	9.5	9.0	9.3	11.4	10.9	11.1	12.9	12.7	12.8
2	---	---	---	9.5	9.3	9.4	11.3	10.9	11.1	12.7	12.4	12.6
3	---	---	---	9.6	9.3	9.4	11.6	11.3	11.4	12.4	12.0	12.2
4	---	---	---	9.7	9.5	9.6	11.7	11.5	11.6	12.2	12.0	12.1
5	---	---	---	10.1	9.6	9.8	11.7	11.6	11.7	12.7	12.1	12.5
6	---	---	---	10.5	10.1	10.3	11.6	11.3	11.5	12.8	12.5	12.7
7	---	---	---	10.6	10.4	10.5	12.1	10.6	11.3	13.0	12.8	12.9
8	---	---	---	10.8	10.4	10.6	---	---	---	13.1	12.6	12.9
9	---	---	---	11.4	10.8	11.2	---	---	---	13.1	13.0	13.1
10	---	---	---	11.7	11.4	11.5	---	---	---	13.2	13.1	13.1
11	---	---	---	11.5	11.2	11.4	10.6	10.2	10.3	13.2	12.9	13.1
12	---	---	---	11.2	11.0	11.1	11.1	10.6	10.9	12.9	12.4	12.6
13	---	---	---	11.5	11.1	11.3	11.6	11.1	11.3	12.4	11.6	11.9
14	9.6	9.1	9.3	11.9	11.5	11.8	12.5	11.6	12.1	13.0	11.7	12.4
15	9.1	8.8	8.9	12.3	11.9	12.1	13.0	12.5	12.8	13.7	12.9	13.3
16	9.1	8.8	8.9	12.1	11.8	12.0	13.3	13.0	13.2	13.9	13.7	13.8
17	9.3	9.1	9.2	11.8	11.3	11.6	13.0	12.9	13.0	14.3	13.9	14.2
18	9.9	9.3	9.5	11.3	10.5	10.9	13.1	12.7	13.0	14.4	14.2	14.3
19	9.8	9.3	9.5	10.5	9.9	10.2	13.3	12.6	12.8	14.2	13.7	14.0
20	9.3	8.9	9.1	9.9	9.6	9.7	14.0	13.3	13.8	13.8	13.4	13.6
21	8.9	8.7	8.7	9.9	9.7	9.8	13.8	13.4	13.7	13.5	13.0	13.3
22	9.0	8.7	8.9	10.0	9.8	9.9	13.5	13.4	13.4	13.0	12.7	12.9
23	9.2	8.9	9.1	10.3	10.0	10.1	13.4	13.1	13.3	13.0	12.7	12.9
24	9.0	8.6	8.7	10.3	10.0	10.2	13.8	13.3	13.6	---	---	---
25	8.9	8.6	8.7	10.4	10.0	10.1	14.1	13.3	13.8	---	---	---
26	9.5	8.8	9.1	11.3	10.4	11.0	14.1	14.0	14.1	---	---	---
27	9.2	9.1	9.2	11.5	11.2	11.3	14.6	14.1	14.4	---	---	---
28	9.2	9.1	9.2	11.3	11.1	11.2	14.8	14.6	14.7	---	---	---
29	9.2	8.9	9.1	11.5	11.2	11.4	14.6	14.0	14.3	---	---	---
30	9.0	8.6	8.9	11.5	11.4	11.5	14.1	13.5	13.8	---	---	---
31	9.0	8.6	8.8	---	---	---	13.6	12.9	13.3	---	---	---
MONTH	9.9	8.6	9.0	12.3	9.0	10.7	14.8	10.2	12.7	14.4	11.6	13.0

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	---	---	---	13.0	12.4	12.7	10.4	9.8	10.1	---	---	---
2	---	---	---	13.6	13.0	13.4	---	---	---	9.7	8.3	8.9
3	---	---	---	13.8	13.4	13.7	---	---	---	9.8	8.7	9.3
4	---	---	---	13.6	13.4	13.5	---	---	---	9.9	9.0	9.4
5	13.4	13.2	13.3	13.5	13.0	13.3	---	---	---	9.8	8.6	9.1
6	13.4	13.2	13.3	13.1	12.3	12.9	---	---	---	9.9	8.3	8.9
7	13.2	12.7	13.0	12.3	11.7	12.1	---	---	---	9.4	8.9	9.2
8	12.7	12.3	12.5	12.2	11.6	11.9	---	---	---	9.4	8.8	9.1
9	12.3	12.1	12.3	13.1	12.2	12.8	---	---	---	9.2	8.8	9.0
10	12.7	12.1	12.4	13.2	12.9	13.1	---	---	---	9.0	8.5	8.8
11	13.3	12.7	13.1	12.9	12.6	12.7	---	---	---	8.7	8.2	8.5
12	13.4	13.0	13.3	12.6	12.5	12.6	---	---	---	8.6	8.1	8.4
13	13.0	12.8	12.9	12.6	12.4	12.5	---	---	---	9.0	8.4	8.7
14	12.8	12.1	12.4	12.6	12.3	12.5	---	---	---	8.4	8.2	8.3
15	12.2	11.6	12.0	12.5	12.0	12.3	---	---	---	8.7	8.2	8.5
16	11.6	11.5	11.6	12.3	11.9	12.1	---	---	---	9.2	8.7	9.0
17	12.2	11.5	11.9	12.1	11.6	11.9	---	---	---	9.6	9.2	9.4
18	13.0	12.2	12.7	12.0	11.4	11.8	---	---	---	9.5	9.0	9.3
19	13.5	13.0	13.3	11.7	11.4	11.6	---	---	---	9.0	8.7	8.9
20	13.4	13.0	13.2	11.8	11.5	11.6	---	---	---	8.7	8.5	8.6
21	13.0	12.2	12.6	12.0	11.7	11.9	---	---	---	8.7	8.5	8.6
22	12.2	12.1	12.2	12.0	11.6	11.8	---	---	---	8.6	8.4	8.5
23	12.2	12.0	12.1	11.6	11.3	11.5	---	---	---	8.4	8.2	8.3
24	12.6	12.0	12.3	11.8	11.4	11.7	---	---	---	8.3	8.2	8.3
25	13.0	12.6	12.9	12.0	11.6	11.9	---	---	---	8.3	8.0	8.2
26	13.1	12.8	13.0	11.6	11.2	11.5	---	---	---	8.0	7.6	7.9
27	13.2	12.7	13.0	11.2	11.1	11.2	---	---	---	---	---	---
28	12.7	12.4	12.6	11.1	10.8	10.9	---	---	---	---	---	---
29	---	---	---	10.9	10.4	10.7	---	---	---	---	---	---
30	---	---	---	10.4	9.9	10.1	---	---	---	---	---	---
31	---	---	---	10.1	9.8	10	---	---	---	---	---	---
MONTH	13.5	11.5	12.7	13.8	9.8	12.1	10.4	9.8	10.1	9.9	7.6	8.8

03159246 Sunday Creek below Millfield, Ohio

LOCATION.—Latitude 39°25'47", longitude 82°06'04", Athens County, Hydrologic Unit 05030204, on left bank at downstream side of bridge on County Road 28, 3 mi downstream of Greene's Run at Millfield, Ohio.

DRAINAGE AREA.—126 mi².

Water-Discharge Records

PERIOD OF RECORD.—October 2002 to current year.

GAGE.—Water-stage recorder and crest gage. Elevation of gage is 670 ft above sea level (from topographic map).

REMARKS.—Records fair except for periods of estimated record, which are poor. Flow partially regulated by Burr Oak Reservoir 13 mi upstream. Water-quality monitor at site. Satellite telemeter at site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	66	1110	129	76	535	347	207	48	64	11	77
2	17	81	703	119	78	487	1470	155	43	24	12	31
3	16	101	794	195	87	263	1300	122	42	15	11	19
4	15	104	222	1240	99	170	525	103	41	12	11	13
5	10	212	158	2060	103	174	868	93	39	12	10	11
6	6.9	114	164	3470	113	208	506	84	36	14	11	9.2
7	6.4	62	261	2570	141	206	165	76	34	14	10	8.9
8	6.6	47	193	1030	269	239	138	72	36	11	10	8.7
9	6.2	35	207	1280	463	227	115	67	34	11	10	8.5
10	5.7	30	837	1080	572	362	102	62	31	9.9	9.4	8.3
11	5.5	27	411	1330	226	148	91	56	30	10	8.9	8.1
12	5.3	152	304	3130	167	131	84	112	30	8.3	9.0	8.1
13	6.1	185	318	1410	145	123	101	88	30	8.5	8.7	7.9
14	6.1	91	301	1060	427	107	99	109	24	9.3	8.5	7.4
15	6.5	120	145	1280	827	98	80	163	23	11	8.9	6.6
16	7.7	331	123	1030	539	91	71	148	20	13	8.8	7.6
17	7.8	84	115	927	217	87	65	272	26	29	8.7	8.0
18	32	112	107	823	158	83	63	75	25	22	9.5	12
19	183	343	102	451	124	80	60	62	24	18	78	8.4
20	418	502	e70	247	117	131	110	132	23	15	23	9.3
21	604	241	e64	130	126	123	69	154	22	15	14	9.7
22	353	236	e62	e110	149	106	60	90	21	21	12	11
23	72	552	869	e100	206	181	972	73	15	24	11	10
24	57	274	937	e96	102	348	1250	83	12	16	9.7	12
25	53	604	257	e90	96	330	893	70	11	16	8.8	29
26	37	322	188	e84	96	208	828	59	11	18	9.3	19
27	29	173	239	e80	97	174	947	52	11	17	11	25
28	148	231	486	97	161	1040	798	55	12	14	14	20
29	45	311	476	74	---	2480	405	75	14	13	23	19
30	31	395	144	76	---	1200	231	61	47	13	45	29
31	103	---	129	76	---	622	---	52	---	12	163	---
TOTAL	2318.8	6138	10496	25874	5981	10762	12813	3082	815	510.0	598.2	461.7
MEAN	74.8	205	339	835	214	347	427	99.4	27.2	16.5	19.3	15.4
MAX	604	604	1110	3470	827	2480	1470	272	48	64	163	77
MIN	5.3	27	62	74	76	80	60	52	11	8.3	8.5	6.6
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003-2005, BY WATER YEAR (WY)												
MEAN	52.9	127	210	434	257	266	312	299	138	33.3	45.8	250
MAX	74.8	205	339	835	316	347	427	562	230	43.9	80.0	628
(WY)	2005	2005	2005	2005	2004	2005	2005	2004	2004	2004	2003	2004
MIN	18.5	42.4	125	127	214	211	112	99.4	27.2	16.5	19.3	15.4
(WY)	2003	2003	2003	2003	2005	2004	2003	2005	2005	2005	2005	2005
SUMMARY STATISTICS												
ANNUAL TOTAL			FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 2003-2005	
ANNUAL MEAN			102830.3				79849.7					
HIGHEST ANNUAL MEAN			281				219				202	
LOWEST ANNUAL MEAN											260	
HIGHEST DAILY MEAN			4090 Sep 18				3470 Jan 6				4090 Sep 18	
LOWEST DAILY MEAN			5.3 Oct 12				5.3 Oct 12				5.3 Oct 12	
ANNUAL SEVEN-DAY MINIMUM			5.9 Oct 9				5.9 Oct 9				5.9 Oct 9	
MAXIMUM PEAK FLOW							3690 Jan 6				4440 Sep 18	
MAXIMUM PEAK STAGE							22.93 Jan 6				24.48 Sep 18	
10 PERCENT EXCEEDS			719				604				518	
50 PERCENT EXCEEDS			110				80				89	
90 PERCENT EXCEEDS			20				9.3				14	

e Estimated.

03159246 Sunday Creek below Millfield, Ohio—Continued
Water-Quality Records

PERIOD OF RECORD.—November 2002 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: November 2002 to current year.

pH: November 2002 to current year.

WATER TEMPERATURE: November 2002 to current year.

DISSOLVED OXYGEN: November 2002 to current year.

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunction of the instrument. Specific conductance records are good except May 1-Sept. 30, which are fair. pH records are poor. Water temperature records are good except May 1-Sept. 30, which are fair. Dissolved oxygen records are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 1,950 microsiemens, Aug. 17, 2005; minimum, 104 microsiemens, Sept. 17, 2004.

pH: Maximum, 7.3 units Feb. 5, 13,17, and Sept. 24, 2004; minimum, 3.6 units Aug. 14-17 and Sept. 24-25, 2005.

WATER TEMPERATURE: Maximum, 25.2°C, July 21, 2005; minimum, 0.0°C, on many days during winter.

DISSOLVED OXYGEN: Maximum, 15.0 mg/L, Jan. 20, 2004; minimum, 4.3 mg/L, June 3, 2003, and June 16, 2005.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 1,950 microsiemens, Aug. 17; minimum, 152 microsiemens, Jan. 6.

pH: Maximum, 6.9 units, Jan. 14; minimum, 3.6 units, Aug. 14-17 and Sept. 24-25.

WATER TEMPERATURE: Maximum, 25.2°C, July 21; minimum, 0.2°C, Jan. 23-24 and 28.

DISSOLVED OXYGEN: Maximum, 13.9 mg/L, Dec. 20-21; minimum, 4.3 mg/L, June 16.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	828	812	819	584	541	560	259	213	237	500	479	485
2	857	828	847	550	501	541	272	211	250	497	479	488
3	861	846	851	502	306	376	229	208	214	504	375	475
4	877	861	871	446	390	407	378	229	330	375	302	358
5	902	865	877	465	404	446	407	378	391	302	244	277
6	943	902	935	440	256	344	426	398	416	244	152	173
7	989	939	963	495	440	477	406	302	320	---	---	---
8	1050	989	1020	531	495	508	388	305	350	---	---	---
9	1080	1050	1070	567	531	545	424	323	395	---	---	---
10	1100	1080	1090	604	567	585	323	236	277	---	---	---
11	1130	1100	1120	624	604	619	---	---	---	---	---	---
12	1160	1130	1150	623	468	546	---	---	---	---	---	---
13	1220	1160	1180	468	413	431	---	---	---	272	179	234
14	1220	1200	1210	437	412	422	308	256	293	277	214	247
15	1240	1210	1230	485	381	455	475	308	385	214	210	211
16	1240	1200	1230	381	243	251	508	475	497	215	211	214
17	1200	1170	1180	469	258	358	506	487	495	218	213	215
18	1180	777	1080	472	460	468	532	506	520	228	213	215
19	790	523	652	495	319	405	537	529	534	286	228	272
20	636	239	432	322	275	304	613	530	567	398	286	361
21	354	216	285	357	314	335	625	587	605	593	398	491
22	236	216	229	385	230	362	611	593	602	637	593	615
23	420	236	325	232	204	226	596	208	386	661	616	644
24	477	420	455	355	225	310	280	203	244	765	649	704
25	523	475	496	340	252	297	360	280	322	738	652	705
26	628	523	568	346	315	332	406	360	382	738	683	716
27	651	628	639	386	361	375	434	233	397	722	680	697
28	650	319	446	389	320	343	247	233	241	794	719	746
29	490	320	399	328	233	301	247	236	244	802	701	766
30	608	490	571	259	225	247	466	240	368	800	759	772
31	622	550	578	---	---	---	510	466	493	762	753	758
MONTH	1240	216	800	624	204	406	625	203	384	802	152	474

03159246 Sunday Creek below Millfield, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.2	6.0	6.1	6.4	6.2	6.3	6.2	6.1	6.1	6.5	6.3	6.4
2	6.1	5.9	6.0	6.3	6.1	6.1	6.2	6.0	6.0	6.4	6.3	6.4
3	6.0	5.9	6.0	6.4	6.2	6.3	6.2	6.1	6.1	6.5	6.3	6.4
4	5.9	5.8	5.8	6.3	6.2	6.2	6.1	5.9	5.9	6.6	6.5	6.6
5	5.8	5.7	5.8	6.5	6.3	6.3	5.9	5.9	5.9	6.7	6.6	6.7
6	5.8	5.6	5.7	6.7	6.1	6.4	6.1	5.9	6.0	6.7	6.6	6.7
7	5.8	5.7	5.8	6.1	6.1	6.1	6.3	6.0	6.1	---	---	---
8	5.7	5.6	5.7	6.4	6.1	6.4	6.3	6.1	6.2	---	---	---
9	5.6	5.5	5.6	6.4	6.0	6.4	6.1	5.9	6.1	---	---	---
10	5.5	5.5	5.5	6.4	5.9	6.3	---	---	---	---	---	---
11	5.6	5.5	5.6	6.3	5.9	6.2	---	---	---	---	---	---
12	5.6	5.6	5.6	6.6	5.9	6.0	---	---	---	---	---	---
13	5.9	5.6	5.6	6.6	6.1	6.6	6.4	6.1	6.1	6.8	6.7	6.8
14	5.9	5.9	5.9	6.6	6.0	6.5	6.1	6.0	6.1	6.9	6.8	6.8
15	5.9	5.9	5.9	6.5	6.4	6.5	6.1	5.9	6.0	6.8	6.7	6.8
16	5.9	5.9	5.9	6.6	6.2	6.5	6.3	5.9	6.0	6.8	6.7	6.7
17	5.9	5.8	5.9	6.5	6.0	6.2	6.3	5.9	6.0	6.7	6.6	6.7
18	6.0	5.8	5.9	6.2	6.1	6.1	6.0	6.0	6.0	6.7	6.6	6.6
19	6.4	6.0	6.3	6.4	6.1	6.2	6.4	6.0	6.0	6.6	6.5	6.5
20	6.4	6.2	6.4	6.4	6.3	6.3	6.5	6.0	6.4	6.5	6.4	6.5
21	6.5	6.4	6.4	6.4	6.3	6.3	6.4	5.8	6.0	6.4	5.7	6.4
22	6.5	6.4	6.4	6.3	6.2	6.2	6.0	5.9	6.0	5.9	5.5	5.7
23	6.4	6.0	6.1	6.3	6.3	6.3	6.4	5.9	6.2	5.9	5.5	5.8
24	6.1	6.0	6.1	6.3	6.1	6.2	6.4	6.3	6.4	5.9	5.5	5.8
25	6.1	6.1	6.1	6.3	6.2	6.3	6.5	6.2	6.4	5.7	5.4	5.7
26	6.3	6.0	6.1	6.2	6.0	6.0	6.4	6.3	6.3	5.7	5.4	5.6
27	6.3	6.1	6.2	6.0	6.0	6.0	6.6	6.3	6.4	5.8	5.5	5.7
28	6.5	6.1	6.4	6.1	6.0	6.1	6.6	6.5	6.6	5.9	5.6	5.7
29	6.4	6.1	6.2	6.2	6.0	6.0	6.7	6.5	6.6	5.8	5.3	5.5
30	6.2	6.1	6.1	6.2	6.1	6.1	6.6	6.4	6.5	5.6	5.4	5.4
31	6.4	6.2	6.4	---	---	---	6.5	6.3	6.4	5.8	5.5	5.7
MAX	6.5	6.4	6.4	6.7	6.4	6.6	6.7	6.5	6.6	6.9	6.8	6.8
MIN	5.5	5.5	5.5	6.0	5.9	6.0	5.9	5.8	5.9	5.6	5.3	5.4

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	5.8	5.5	5.6	6.0	5.6	5.7	6.4	5.6	6.3	6.1	5.8	5.9
2	5.8	5.5	5.7	6.1	5.6	5.6	5.8	5.6	5.7	6.1	5.8	6.0
3	5.7	5.4	5.5	5.6	5.1	5.5	6.0	5.7	5.9	6.1	5.7	6.0
4	5.9	5.5	5.8	5.6	5.0	5.5	6.2	6.0	6.1	6.1	5.6	6.0
5	5.7	5.6	5.6	5.6	5.0	5.1	6.2	6.1	6.2	6.0	5.6	6.0
6	5.7	5.6	5.7	5.7	5.2	5.5	6.2	6.1	6.2	6.0	5.7	5.7
7	5.8	5.7	5.7	5.8	5.3	5.7	6.2	6.1	6.2	6.1	5.7	5.8
8	6.1	5.8	5.9	5.8	5.3	5.4	6.4	6.2	6.2	6.0	5.7	5.7
9	6.0	5.8	5.9	5.8	5.1	5.7	6.3	6.2	6.3	6.0	5.7	5.7
10	5.9	5.8	5.8	5.8	5.2	5.2	6.4	6.2	6.3	5.8	5.8	5.8
11	5.8	5.6	5.7	5.7	5.1	5.1	6.4	6.3	6.3	5.9	5.8	5.8
12	5.8	5.6	5.7	5.7	5.1	5.1	6.4	6.3	6.3	6.2	5.8	5.9
13	5.8	5.7	5.8	5.8	5.1	5.2	6.4	5.7	6.3	6.1	5.9	6.0
14	6.1	5.8	6.0	5.8	5.2	5.2	6.0	5.6	5.8	6.2	5.9	6.1
15	6.0	5.8	5.9	5.8	5.1	5.2	5.9	5.6	5.9	6.2	6.1	6.2
16	6.0	5.9	6.0	5.8	5.2	5.2	6.0	5.6	5.9	6.3	6.0	6.1
17	6.0	5.8	5.9	5.8	5.2	5.2	5.9	5.6	5.8	6.2	6.1	6.2
18	5.9	5.8	5.9	5.4	5.2	5.3	5.9	5.6	5.8	6.2	6.0	6.0
19	6.0	5.8	5.9	5.5	5.3	5.4	6.0	5.6	5.8	6.2	6.0	6.0
20	5.9	5.6	5.8	5.5	5.4	5.5	6.2	5.7	6.0	6.3	6.0	6.2
21	6.0	5.7	5.9	5.5	5.4	5.4	6.1	5.7	5.8	6.3	6.2	6.2
22	6.0	5.9	6.0	5.5	5.4	5.4	6.0	5.8	5.9	6.2	6.1	6.2
23	6.0	6.0	6.0	5.7	5.5	5.6	6.3	5.8	6.1	6.2	6.1	6.1
24	6.0	5.6	5.9	5.7	5.7	5.7	---	---	---	6.4	6.1	6.3
25	5.9	5.6	5.8	5.8	5.6	5.7	---	---	---	6.4	6.3	6.4
26	6.0	5.6	5.9	5.9	5.7	5.8	---	---	---	6.5	6.3	6.4
27	6.0	5.6	5.9	6.0	5.9	5.9	---	---	---	6.5	6.4	6.4
28	6.0	5.6	5.7	6.1	5.9	5.9	6.1	5.9	6.0	6.5	6.4	6.4
29	---	---	---	6.2	6.0	6.1	6.1	5.8	6.0	6.6	6.5	6.5
30	---	---	---	6.3	6.0	6.1	5.9	5.8	5.8	6.6	6.4	6.5
31	---	---	---	6.4	6.3	6.3	---	---	---	6.5	6.4	6.5
MAX	6.1	6.0	6.0	6.4	6.3	6.3	6.4	6.3	6.3	6.6	6.5	6.5
MIN	5.7	5.4	5.5	5.4	5.0	5.1	5.8	5.6	5.7	5.8	5.6	5.7

03159246 Sunday Creek below Millfield, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.4	6.3	6.4	6.5	6.3	6.3	5.7	5.6	5.7	6.6	6.5	6.6
2	6.3	6.2	6.3	6.3	6.0	6.1	5.6	5.5	5.6	6.5	6.3	6.4
3	6.3	6.2	6.3	6.0	5.7	5.8	5.6	5.5	5.5	6.3	6.1	6.2
4	6.3	6.2	6.2	5.7	5.6	5.6	5.5	5.3	5.5	6.2	6.1	6.1
5	6.3	6.2	6.3	5.6	5.5	5.5	5.3	4.8	5.2	6.1	6.0	6.1
6	6.2	6.0	6.1	5.5	5.4	5.4	4.8	4.6	4.7	6.2	6.1	6.1
7	6.2	5.9	6.1	5.5	5.5	5.5	4.7	4.5	4.7	6.2	6.0	6.1
8	6.2	6.1	6.2	5.5	5.3	5.4	4.5	4.3	4.4	6.2	6.1	6.2
9	6.2	6.0	6.1	5.3	5.1	5.2	4.3	4.1	4.3	6.2	6.0	6.1
10	6.1	6.0	6.1	5.2	5.0	5.1	4.1	4.0	4.1	6.2	6.1	6.2
11	6.1	6.0	6.1	5.1	4.9	4.9	4.0	3.9	4.0	6.1	6.0	6.1
12	6.1	5.9	6.0	4.9	4.6	4.7	4.0	3.8	3.9	6.1	5.9	6.1
13	6.0	5.9	6.0	4.7	4.5	4.5	3.8	3.8	3.8	5.9	5.6	5.8
14	6.0	5.8	5.9	5.5	4.5	4.6	3.8	3.6	3.7	5.6	5.3	5.5
15	6.0	5.9	6.0	5.9	5.5	5.7	3.6	3.6	3.6	5.3	4.6	5.1
16	6.0	5.7	5.9	5.9	5.8	5.9	3.6	3.6	3.6	4.6	4.3	4.6
17	6.1	5.7	5.8	6.2	5.9	6.1	3.9	3.6	3.6	4.4	4.2	4.3
18	6.0	5.8	5.8	6.1	6.0	6.1	3.9	3.8	3.9	5.2	4.3	4.6
19	6.0	5.7	5.8	6.1	5.9	5.9	6.1	3.8	5.8	5.2	4.5	5.1
20	6.0	5.7	5.9	5.9	5.8	5.9	5.6	5.3	5.5	4.5	4.1	4.4
21	6.1	5.8	6.0	5.8	5.7	5.8	5.4	5.1	5.3	4.2	3.9	4.1
22	6.1	6.0	6.0	6.2	5.7	6.0	5.1	5.0	5.0	3.9	3.8	3.9
23	6.1	5.9	6.0	6.3	6.1	6.2	5.0	4.8	4.8	3.8	3.7	3.8
24	6.0	5.9	6.0	6.2	6.1	6.1	4.9	4.7	4.8	3.7	3.6	3.7
25	6.0	5.9	6.0	6.3	5.9	6.1	4.8	4.5	4.6	5.3	3.6	4.0
26	5.9	5.8	5.9	6.3	6.1	6.1	4.6	4.4	4.5	5.3	4.3	5.2
27	5.9	5.8	5.9	6.1	6.1	6.1	4.6	4.5	4.6	4.5	4.0	4.1
28	6.0	5.8	5.9	6.1	6.0	6.1	4.9	4.6	4.8	5.1	4.5	4.6
29	6.1	5.8	5.9	6.1	5.9	5.9	5.0	4.8	4.9	5.3	4.9	5.1
30	6.4	5.6	5.9	5.9	5.8	5.9	5.9	4.8	5.7	5.8	5.3	5.5
31	---	---	---	5.8	5.7	5.8	6.6	5.8	6.4	---	---	---
MAX	6.4	6.3	6.4	6.5	6.3	6.3	6.6	5.8	6.4	6.6	6.5	6.6
MIN	5.9	5.6	5.8	4.7	4.5	4.5	3.6	3.6	3.6	3.7	3.6	3.7
YEAR	MAX	MAXIMUM 6.9 MINIMUM 3.6		MIN	MAXIMUM 6.8 MINIMUM 3.6		MEDIAN	MAXIMUM 6.8 MINIMUM 3.6				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	16.8	15.0	16.0	14.2	13.1	13.5	9.2	7.9	8.7	7.9	6.9	7.4
2	16.7	16.0	16.4	14.1	12.8	13.4	7.9	6.5	7.1	8.6	7.8	8.1
3	16.2	14.9	15.5	14.5	13.2	14.0	8.0	7.4	7.7	9.6	8.6	9.1
4	15.2	13.8	14.6	13.7	12.9	13.3	7.5	5.4	6.0	12.5	9.6	11.8
5	14.7	13.1	13.7	12.9	11.3	12.0	5.9	4.9	5.4	11.9	10.7	11.3
6	13.2	12.0	12.7	12.7	10.7	11.7	7.3	5.7	6.5	11.7	7.6	9.3
7	12.9	11.7	12.4	11.8	10.0	10.8	9.9	7.3	8.8	---	---	---
8	13.4	12.1	12.7	11.0	9.7	10.5	10.1	9.3	9.7	---	---	---
9	14.2	13.1	13.6	9.7	8.2	8.8	9.3	8.2	8.5	---	---	---
10	14.3	13.4	13.9	8.8	7.2	8.0	8.6	8.2	8.4	---	---	---
11	13.7	12.7	13.2	9.4	7.8	8.6	---	---	---	---	---	---
12	13.2	12.1	12.7	9.3	8.9	9.1	---	---	---	---	---	---
13	13.2	12.7	12.9	9.0	7.5	8.3	---	---	---	9.9	8.9	9.4
14	13.3	13.1	13.2	7.5	6.5	7.0	6.4	4.8	5.5	9.5	6.8	8.6
15	13.2	12.3	12.9	7.0	5.9	6.4	4.8	3.0	4.1	6.8	5.7	5.9
16	12.3	11.4	11.8	10.3	6.9	9.8	3.0	2.3	2.7	5.8	5.0	5.4
17	11.4	10.5	11.0	10.3	9.7	10.1	3.9	2.9	3.4	5.0	4.2	4.5
18	10.9	9.3	10.0	10.7	9.7	10.1	3.7	2.7	3.2	4.2	3.7	3.9
19	10.7	9.8	10.2	11.9	10.7	11.3	3.7	1.9	3.2	3.7	2.9	3.2
20	13.6	10.7	12.4	12.3	11.9	12.0	1.9	0.3	0.8	3.5	2.9	3.1
21	14.8	13.5	14.0	12.2	11.7	11.9	1.6	0.3	0.9	3.1	1.2	2.3
22	14.8	13.9	14.3	11.7	10.7	11.3	2.1	1.4	1.6	1.3	0.6	1.2
23	14.3	13.3	13.8	11.1	10.6	10.8	2.9	2.1	2.7	0.8	0.2	0.4
24	14.9	13.6	14.1	11.3	10.9	11.1	2.3	1.3	1.7	0.6	0.2	0.3
25	14.8	13.2	14.0	11.5	9.2	10.6	1.3	0.3	0.7	1.4	0.4	0.8
26	14.2	12.5	13.4	9.2	7.2	7.8	1.6	0.7	1.2	1.2	0.7	0.9
27	14.0	13.3	13.6	7.9	7.1	7.6	2.7	1.0	1.4	1.2	0.3	0.7
28	14.9	13.6	14.1	8.5	7.9	8.3	3.5	2.5	2.9	1.4	0.2	0.6
29	15.4	14.3	14.7	8.8	7.7	8.0	4.2	3.4	3.7	1.4	0.5	0.9
30	16.1	14.8	15.4	9.2	8.3	8.7	5.2	4.2	4.6	1.9	1.0	1.3
31	16.0	14.2	15.1	---	---	---	6.9	5.1	6.0	2.5	0.8	1.5
MONTH	16.8	9.3	13.5	14.5	5.9	10.2	10.1	0.3	4.5	12.5	0.2	4.5

03159246 Sunday Creek below Millfield, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	7.1	6.5	6.9	8.4	8.1	8.3	10.6	10.0	10.3	10.8	10.4	10.6
2	6.8	6.6	6.8	8.8	8.1	8.4	11.4	10.6	10.9	10.4	10.1	10.3
3	7.2	6.8	7.0	9.0	8.2	8.4	11.0	10.9	10.9	---	---	---
4	7.6	7.2	7.3	9.1	8.5	8.8	11.6	10.8	11.2	---	---	---
5	7.9	7.4	7.6	10.1	8.9	9.6	11.7	11.4	11.6	---	---	---
6	8.1	7.7	7.9	9.9	9.4	9.6	11.5	10.8	11.1	---	---	---
7	8.3	7.8	8.1	9.6	9.2	9.5	11.0	9.9	10.3	---	---	---
8	8.4	7.8	8.1	10.7	9.5	10.0	9.9	9.7	9.8	---	---	---
9	7.9	7.5	7.7	12.0	10.2	11.1	10.7	9.8	10.2	---	---	---
10	7.8	7.5	7.6	12.5	11.6	12.0	---	---	---	---	---	---
11	7.9	7.7	7.8	12.1	11.2	11.7	---	---	---	---	---	---
12	8.0	7.6	7.8	12.5	11.1	11.5	---	---	---	---	---	---
13	8.0	7.7	7.8	---	---	---	---	---	---	---	---	---
14	7.8	7.6	7.7	---	---	---	12.2	11.4	11.8	---	---	---
15	7.6	7.3	7.4	---	---	---	13.2	12.2	12.5	---	---	---
16	7.5	7.2	7.3	11.4	9.6	10.0	13.3	13.1	13.2	---	---	---
17	7.5	7.4	7.5	9.8	9.3	9.5	13.3	12.0	12.9	---	---	---
18	8.5	7.5	7.9	9.6	9.3	9.5	13.0	12.8	12.9	---	---	---
19	8.7	7.9	8.3	9.3	9.0	9.1	13.0	12.7	12.8	---	---	---
20	8.2	7.3	8.0	9.1	8.9	9.0	13.9	13.0	13.5	---	---	---
21	8.5	8.0	8.3	9.0	8.7	8.8	13.9	12.9	13.6	---	---	---
22	8.9	8.4	8.7	9.6	8.9	9.2	13.5	13.0	13.3	11.2	10.9	11.1
23	8.6	7.7	8.1	9.9	9.6	9.7	13.1	12.5	12.8	12.4	11.1	11.9
24	7.7	7.0	7.4	9.6	9.2	9.3	13.4	13.1	13.2	12.5	12.2	12.4
25	7.3	6.9	7.1	10.0	9.1	9.4	13.6	13.4	13.5	12.5	12.2	12.3
26	8.3	7.1	7.4	10.9	10.0	10.6	13.6	13.1	13.3	11.2	10.6	10.9
27	7.4	7.1	7.3	10.8	10.4	10.6	13.4	13.0	13.1	12.2	11.1	11.8
28	8.2	6.8	7.7	10.5	10.2	10.3	13.0	12.7	12.8	12.7	12.1	12.4
29	8.1	7.0	7.6	11.0	10.5	10.7	12.7	12.4	12.5	12.9	11.4	12.4
30	7.0	6.5	6.8	10.6	10.1	10.5	12.4	11.5	11.8	12.7	11.5	11.9
31	8.1	6.5	7.3	---	---	---	11.5	10.8	11.1	13.2	11.3	12.0
MONTH	8.9	6.5	7.6	12.5	8.1	9.8	13.9	9.7	12.1	13.2	10.1	11.7

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	13.6	12.0	12.6	12.3	11.5	11.9	10.8	10.1	10.5	10.0	9.6	9.8
2	13.7	12.5	13.1	12.5	12.2	12.3	10.8	10.4	10.5	10.0	9.7	9.8
3	13.0	12.4	12.7	12.5	12.2	12.3	11.3	10.3	11.0	10.1	9.9	10.0
4	13.4	11.9	12.5	12.5	12.2	12.4	10.3	8.2	9.0	10.1	10.0	10.1
5	12.0	11.8	11.9	12.5	12.1	12.4	---	---	---	10.1	9.2	9.7
6	12.0	11.8	11.9	12.1	11.6	11.9	---	---	---	9.2	8.3	8.7
7	11.8	11.5	11.7	11.6	10.8	11.3	---	---	---	8.3	7.7	8.0
8	11.6	11.3	11.4	11.8	10.7	11.1	---	---	---	7.8	7.3	7.5
9	11.7	11.5	11.6	12.7	11.8	12.3	---	---	---	7.3	6.9	7.1
10	12.2	11.6	11.9	12.6	12.2	12.4	---	---	---	6.9	6.3	6.5
11	12.7	12.1	12.5	12.3	11.7	11.8	---	---	---	6.3	5.7	5.9
12	12.7	12.2	12.5	12.0	11.7	11.8	---	---	---	6.7	5.2	5.8
13	12.3	11.9	12.0	12.0	11.7	11.8	---	---	---	6.6	6.0	6.4
14	11.9	11.4	11.6	12.1	11.6	11.8	8.8	8.5	8.6	6.0	5.6	5.8
15	11.9	11.5	11.7	12.2	11.4	11.7	8.8	8.5	8.6	7.3	5.9	6.9
16	11.5	11.3	11.4	11.7	11.3	11.4	8.8	8.6	8.7	7.8	7.0	7.2
17	11.8	11.3	11.4	11.9	11.3	11.5	8.8	8.5	8.6	8.4	7.8	8.2
18	12.4	11.8	12.1	11.8	11.1	11.4	8.7	8.2	8.3	8.1	7.1	7.5
19	12.8	12.4	12.7	11.1	10.7	10.9	11.1	7.7	8.2	7.2	6.5	6.9
20	12.8	12.1	12.5	11.2	10.6	10.9	9.1	7.7	8.1	7.6	6.5	6.7
21	12.1	11.2	11.5	11.4	11.2	11.3	9.1	8.4	8.6	7.9	7.6	7.8
22	11.5	10.9	11.1	11.3	11.0	11.1	8.5	8.1	8.2	7.6	7.2	7.4
23	11.6	11.5	11.5	11.0	10.5	10.7	9.8	7.8	9.1	7.2	6.9	7.0
24	11.5	11.0	11.2	12.0	11.0	11.3	---	---	---	7.6	6.9	7.3
25	11.7	11.3	11.5	12.0	11.7	11.8	---	---	---	7.6	7.1	7.4
26	11.7	11.6	11.6	11.8	10.9	11.2	---	---	---	7.2	6.5	6.8
27	11.8	11.4	11.6	10.9	10.6	10.7	---	---	---	6.5	5.7	6.1
28	11.5	10.9	11.2	11.0	10.2	10.6	9.9	9.5	9.7	5.7	5.2	5.4
29	---	---	---	11.0	10.8	10.9	9.6	9.5	9.6	---	---	---
30	---	---	---	11.3	10.8	11.1	9.7	9.1	9.4	---	---	---
31	---	---	---	11.1	10.7	10.8	---	---	---	---	---	---
MONTH	13.7	10.9	11.9	12.7	10.2	11.5	11.3	7.7	9.1	10.1	5.2	7.5

03159500 Hocking River at Athens, Ohio

LOCATION.—Latitude 39°19'44", longitude 82°05'16", in T.9 N., R.14 W., Athens County, Hydrologic Unit 05030204, on right bank 0.8 mi east of business section of Athens, Ohio, 1.4 mi downstream from Coats Run, and 3 mi downstream from Margaret Creek.

DRAINAGE AREA.—943 mi².

PERIOD OF RECORD.—May 1915 to current year.

REVISED RECORDS.—WSP 523: 1918-19(M). WSP 743: 1922(M). WSP 873: 1920, 1922, 1924-28, 1937. WSP 1113: 1932.

WDR-OH-90-1: 1979(M), 1983(M), 1985(M), 1986(M).

GAGE.—Water-stage recorder. Datum of gage is 611.26 ft above sea level. Prior to Aug. 17, 1931, nonrecording gage; Aug. 18, 1931-June 19, 1970, at present site at datum 3.55 ft. higher; June 19, 1970-Sept. 30, 1971, and Oct. 1, 1976-Mar. 31, 1993, water-stage recorder at site 5.3 mi downstream at datum 11.26 ft lower, published as "Below Athens" (03159510).

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality data formerly collected at this site. Some regulation by Burr Oak Reservoir, capacity 26,900 acre-ft, on East Branch Sunday Creek 29 mi upstream beginning 1952; by Hocking Lake, capacity 3,080 acre-ft, on Clear Fork 39.4 mi upstream beginning in 1949; and by temporary retention in 8 retarding basins, combined capacity, 8,710 acre-ft, constructed between 1955 and 1961 upstream from Lancaster.

EXTREMES OUTSIDE PERIOD RECORD.—Flood in Mar. 1907 reached a stage of about 27 ft from flood marks, site and datum then in use; discharge 50,000 ft³/s, estimated by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	633	3960	1280	915	2400	2800	2200	505	362	101	972
2	371	543	5660	1200	889	2300	6040	1670	464	532	98	484
3	350	580	3470	1270	902	1640	8830	1380	437	307	95	274
4	331	718	2130	5410	954	1360	6930	1200	421	215	93	199
5	314	1270	1590	10200	960	1320	3790	1060	399	181	91	162
6	296	1250	1380	15200	992	1590	2690	972	375	191	90	143
7	275	891	1420	18300	1160	1730	1900	904	351	224	91	e127
8	263	752	1560	14600	1710	2120	1620	840	329	182	96	e120
9	255	639	1450	10900	3060	2620	1410	779	316	158	92	e113
10	249	566	3240	6320	3160	1900	1240	726	369	142	88	e108
11	241	531	3390	4690	2270	1480	1130	688	312	133	85	e104
12	235	806	2280	11100	1630	1300	1040	689	321	127	87	e100
13	232	1560	1890	13500	1430	1220	1000	779	289	122	89	e96
14	281	1110	1690	10300	1920	1080	988	743	275	130	84	e90
15	273	856	1350	8940	3680	971	873	1160	268	134	81	87
16	267	928	1170	5540	3050	904	795	1030	245	157	80	85
17	259	823	1080	4080	2110	853	740	979	238	275	79	87
18	290	1440	1020	3260	1630	815	706	765	232	242	80	90
19	1330	2700	966	2470	1330	780	679	648	220	205	167	89
20	2450	4530	886	2010	1170	923	654	817	208	172	167	85
21	2530	3040	794	1700	1170	1070	695	1170	199	153	110	86
22	1960	1850	831	1510	1180	923	645	905	195	152	94	89
23	1100	1770	2790	1400	1160	1100	4100	756	198	163	89	87
24	830	1560	7600	1170	1020	1510	7340	711	182	135	83	84
25	880	2920	5570	1160	968	1380	8040	701	173	129	75	140
26	743	3480	2410	1190	952	1260	5950	618	165	212	76	275
27	632	1970	1760	1120	954	1220	4640	564	160	159	81	184
28	644	1640	1660	964	1150	3330	3710	535	160	131	78	e214
29	624	1560	1540	915	---	10600	2480	586	160	118	87	175
30	536	1460	1300	943	---	9800	2120	612	169	112	161	e166
31	617	---	1220	932	---	4330	---	529	---	107	461	---
TOTAL	20053	44376	69057	163574	43476	65829	85575	27716	8335	5762	3329	5115
MEAN	647	1479	2228	5277	1553	2124	2852	894	278	186	107	170
MAX	2530	4530	7600	18300	3680	10600	8830	2200	505	532	461	972
MIN	232	531	794	915	889	780	645	529	160	107	75	84
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916-2005, BY WATER YEAR (WY)												
MEAN	247	550	1011	1481	1729	2104	1841	1380	791	495	408	325
MAX	1539	3194	3830	7796	3928	5975	4268	5672	3143	2957	3054	2674
(WY)	1976	1920	1924	1937	1951	1963	1940	1968	1928	1958	1980	2004
MIN	36.1	46.4	64.5	75.5	91.6	262	385	174	77.8	52.2	39.6	44.8
(WY)	1931	1954	1931	1931	1954	1931	1925	1934	1930	1930	1930	1930
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1916-2005		
ANNUAL MEAN				665838			542197					
HIGHEST ANNUAL MEAN				1819			1485			1027		
LOWEST ANNUAL MEAN										1818		
HIGHEST DAILY MEAN				14600			18300			2004		
LOWEST DAILY MEAN				121			75			233		
ANNUAL SEVEN-DAY MINIMUM				136			81			1954		
MAXIMUM PEAK FLOW							18800			1964		
MAXIMUM PEAK STAGE							23.78			1930		
INSTANTANEOUS LOW FLOW							72			1930		
10 PERCENT EXCEEDS				4380			3350			1964		
50 PERCENT EXCEEDS				1060			823			1964		
90 PERCENT EXCEEDS				262			97			1930		

e Estimated.

Surface-Water Records—Shade River Basin

03159540 Shade River near Chester, Ohio

LOCATION.—Latitude 39°03'49", longitude 81°52'55", in NE ¼ sec. 10, T.3N., R.12 W., Meigs County, Hydrologic Unit 05030202, on right bank at downstream side of bridge on Oak Hill Road, 200 ft upstream from Sugar Run, 2.8 mi southeast of Chester, Ohio, and 8.5 mi northeast of Pomeroy, Ohio.

DRAINAGE AREA.—155 mi².

PERIOD OF RECORD.—Water years 1956, 1962-64 (occasional low-flow measurements), June 1965 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 576.91 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	27	950	e92	e90	1370	250	550	24	51	3.0	33
2	26	26	600	e86	e88	467	2300	269	21	55	3.1	16
3	23	54	279	323	e86	277	1790	195	22	32	1.8	8.5
4	22	178	204	1460	e84	219	536	156	28	23	1.5	5.2
5	19	210	165	1980	e82	239	315	132	25	18	1.3	3.3
6	16	125	149	2360	e80	358	241	117	19	15	1.2	2.2
7	14	89	211	1310	e100	289	204	107	16	13	1.1	1.7
8	13	69	258	2430	160	1060	182	98	14	11	9.8	1.3
9	12	53	196	1730	230	420	152	86	12	10	5.0	1.1
10	11	44	603	533	362	261	131	78	11	8.9	3.7	0.87
11	11	39	740	337	244	220	116	71	11	8.4	2.4	0.84
12	10	366	382	759	189	210	105	64	10	8.2	1.7	1.1
13	18	319	265	440	163	210	101	60	11	9.1	1.3	1.2
14	23	154	200	1010	798	186	89	56	10	9.8	1.1	1.2
15	18	110	159	535	1190	158	77	90	13	11	0.97	1.2
16	19	92	138	297	395	142	67	70	17	13	0.82	1.1
17	15	83	129	226	267	131	61	51	21	28	0.73	1.7
18	52	252	118	160	201	121	59	43	30	82	1.5	1.7
19	441	1030	110	207	155	112	58	42	25	165	9.6	1.6
20	193	1680	98	172	152	123	54	131	20	77	4.0	1.5
21	106	433	88	158	166	129	51	113	19	33	2.5	1.5
22	77	249	95	e145	156	111	70	69	18	22	1.6	1.2
23	57	195	568	e135	131	304	973	53	17	16	0.97	1.3
24	56	199	710	e130	127	315	1040	49	16	12	0.53	1.4
25	68	390	208	e120	135	195	920	48	13	10	0.41	1.3
26	57	298	e170	e115	160	181	412	39	12	8.2	0.70	1.7
27	45	198	e140	e110	179	169	1330	32	13	11	1.6	1.7
28	39	205	e125	e105	484	821	474	28	13	9.2	3.8	1.6
29	35	201	e110	e100	---	2830	259	35	13	6.1	3.7	1.8
30	33	165	e105	e98	---	749	605	33	15	4.4	11	2.0
31	30	---	e98	e94	---	335	---	27	---	3.4	61	---
TOTAL	1590	7533	8371	17757	6654	12712	13022	2992	509	783.7	143.43	101.81
MEAN	51.3	251	270	573	238	410	434	96.5	17.0	25.3	4.63	3.39
MAX	441	1680	950	2430	1190	2830	2300	550	30	165	61	33
MIN	10	26	88	86	80	111	51	27	10	3.4	0.41	0.84
CFSM	0.33	1.61	1.73	3.67	1.52	2.63	2.78	0.62	0.11	0.16	0.03	0.02
IN.	0.38	1.80	2.00	4.23	1.59	3.03	3.11	0.71	0.12	0.19	0.03	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-2005, BY WATER YEAR (WY)

MEAN	50.9	114	200	246	301	358	281	245	106	65.1	59.0	55.8
MAX	259	529	765	755	884	1088	634	912	488	384	406	900
(WY)	1976	2004	1991	1994	1994	1997	1972	1968	1998	1980	1980	2004
MIN	0.42	0.99	20.2	24.0	40.7	53.4	48.6	33.2	2.37	2.40	0.72	0.38
(WY)	1988	1988	1988	1977	1978	1969	1995	1986	1988	1987	1988	1987

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1965-2005
ANNUAL TOTAL	105469.2	72168.94	
ANNUAL MEAN	288	198	174
HIGHEST ANNUAL MEAN			319
LOWEST ANNUAL MEAN			45.4
HIGHEST DAILY MEAN	9690	2830	10300
LOWEST DAILY MEAN	3.8	0.41	0.18
ANNUAL SEVEN-DAY MINIMUM	5.7	1.1	0.21
MAXIMUM PEAK FLOW		3050	15600
MAXIMUM PEAK STAGE		17.46	31.44
INSTANTANEOUS LOW FLOW		0.30	0.17
ANNUAL RUNOFF (CFSM)	1.85	1.27	1.12
ANNUAL RUNOFF (INCHES)	25.15	17.21	15.16
10 PERCENT EXCEEDS	609	470	387
50 PERCENT EXCEEDS	102	80	58
90 PERCENT EXCEEDS	9.3	1.7	4.1

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Raccoon Creek Basin

03201902 Raccoon Creek at Bolins Mills, Ohio

LOCATION.—Latitude 39°13'50", longitude 82°17'09", in Vinton County, Hydrologic Unit 05090101, on left bank at State Highway 50 and 356 intersection at Bolins Mills, Ohio, 12 mi downstream of Lake Hope.

DRAINAGE AREA.—205 mi².

PERIOD OF RECORD.—October 1983 to September 1985, December 2002 to current year.

GAGE.—Water stage recorder. Elevation of gage 680 ft (from topographic map).

REMARKS.—Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	33	64	915	210	e140	852	567	569	36	41	11	15			
2	31	55	1480	190	e150	725	1160	425	33	26	8.8	15			
3	29	56	1330	221	165	453	1750	325	31	23	7.0	11			
4	28	88	529	1070	199	377	1650	260	30	20	5.9	7.5			
5	27	201	277	1820	190	363	1050	216	30	16	5.3	5.5			
6	26	180	210	2700	196	492	475	184	28	14	4.4	4.6			
7	25	125	218	3420	222	595	377	159	25	13	4.2	4.6			
8	25	96	318	2990	289	625	340	139	23	12	3.6	4.4			
9	24	76	280	2110	418	504	286	119	22	11	3.3	4.0			
10	24	64	713	1280	592	371	242	103	21	11	3.2	3.7			
11	23	58	830	675	492	317	215	91	21	12	2.8	3.6			
12	23	139	469	1640	356	293	188	83	20	12	2.6	3.8			
13	22	350	334	2070	306	271	177	74	18	15	2.4	3.5			
14	23	210	245	2060	419	233	160	72	18	16	2.4	3.4			
15	25	137	184	1680	1100	202	135	97	20	16	2.5	3.2			
16	25	111	153	963	923	181	120	85	23	18	2.4	3.1			
17	26	97	142	492	559	168	108	64	22	59	2.7	3.5			
18	34	236	130	313	406	157	110	55	19	121	2.4	3.4			
19	189	660	117	322	310	149	103	52	17	50	2.4	3.1			
20	203	1280	e94	293	267	213	94	82	16	32	2.7	3.2			
21	220	1050	e84	e240	273	323	86	109	14	24	3.0	3.3			
22	132	434	e74	e220	259	248	93	77	13	20	3.3	3.2			
23	82	282	436	e190	217	280	1140	61	12	21	3.4	3.9			
24	71	273	1190	e180	200	471	1700	60	11	21	3.7	3.1			
25	77	824	949	e160	201	384	1820	61	11	23	3.8	2.8			
26	69	910	426	e150	198	331	1740	51	10	64	3.9	3.7			
27	58	455	282	e140	213	301	1380	44	9.8	121	4.4	3.5			
28	52	354	237	e130	281	674	905	40	10	38	4.6	3.4			
29	49	328	218	e125	---	2030	520	41	9.9	24	5.2	5.2			
30	46	245	206	e120	---	2300	495	43	28	17	7.2	6.3			
31	47	---	209	e130	---	1670	---	39	---	14	11	---			
TOTAL	1768	9438	13279	28304	9541	16553	19186	3880	601.7	925	135.5	147.5			
MEAN	57.0	315	428	913	341	534	640	125	20.1	29.8	4.37	4.92			
MAX	220	1280	1480	3420	1100	2300	1820	569	36	121	11	15			
MIN	22	55	74	120	140	149	86	39	9.8	11	2.4	2.8			
CFSM	0.28	1.53	2.09	4.45	1.66	2.60	3.12	0.61	0.10	0.15	0.02	0.02			
IN.	0.32	1.71	2.41	5.14	1.73	3.00	3.48	0.70	0.11	0.17	0.02	0.03			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984-2005, BY WATER YEAR (WY)															
MEAN	51.8	336	367	437	456	429	474	363	133	83.3	38.0	267			
MAX	95.0	630	532	913	590	534	640	444	364	148	87.4	814			
(WY)	2004	2004	2004	2005	1985	2005	2005	1985	2003	2003	2003	2004			
MIN	3.47	63.0	235	89.5	341	380	207	125	20.1	29.8	4.37	1.12			
(WY)	1985	1985	1985	1985	2005	1985	2003	2005	2005	2005	2005	1984			
SUMMARY STATISTICS															
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1984-2005			
ANNUAL TOTAL				134980				103758.7							
ANNUAL MEAN				369				284				346			
HIGHEST ANNUAL MEAN												407	2004		
LOWEST ANNUAL MEAN												284	2005		
HIGHEST DAILY MEAN				4770	Sep 18			3420	Jan 7			4770	Sep 18	2004	
LOWEST DAILY MEAN				19	Sep 6			2.4	Aug 13			0.00	Oct 6		1984
ANNUAL SEVEN-DAY MINIMUM				21	Sep 1			2.5	Aug 13			0.12	Oct 4		1984
MAXIMUM PEAK FLOW								3550	Jan 7a			5000	Sep 18		2004
MAXIMUM PEAK STAGE								16.00	Jan 7			17.05	Sep 18		2004
INSTANTANEOUS LOW FLOW								1.8	Aug 16			0.00	Oct 6		1984
ANNUAL RUNOFF (CFSM)				1.80								1.69			
ANNUAL RUNOFF (INCHES)				24.49								22.90			
10 PERCENT EXCEEDS				981								948			
50 PERCENT EXCEEDS				184								103			
90 PERCENT EXCEEDS				28								3.9			

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03201980 Little Raccoon Creek near Ewington, Ohio

LOCATION.—Latitude 39°00'38", longitude 82°27'08", in SW ¼ sec. 12, T.8N., R.17W., Jackson County, Hydrologic Unit 05090101, on left bank downstream side of Old Keystone Road, 5 mi west of Ewington, Ohio, 3.6 mi downstream from Tarcamp Creek, 0.15 mi upstream of Kuger Run.
 DRAINAGE AREA.—99.7 mi².

Water-Discharge Records

PERIOD OF RECORD.—July 1984 to June 1985 and November 1998 to current year.

GAGE.—Water-stage recorder and crest gage. Elevation of gage is 630 ft above sea level (from topographic map).

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	401	90	96	355	242	286	23	82	6.0	33
2	26	26	584	81	99	305	609	185	23	42	6.0	17
3	26	41	472	117	105	203	982	142	23	19	6.1	10
4	25	92	207	503	116	163	811	117	23	13	5.1	7.9
5	22	187	151	782	110	161	403	102	21	11	6.6	6.5
6	20	97	126	1360	106	211	215	92	19	9.4	19	6.2
7	19	66	139	1430	106	189	172	84	17	15	10	6.0
8	18	52	179	1310	122	214	159	74	21	15	7.0	6.1
9	17	41	154	1110	139	191	134	65	18	11	6.6	6.2
10	16	35	302	675	165	157	117	59	19	9.0	6.0	5.6
11	15	32	373	326	150	141	105	54	23	7.8	5.3	5.5
12	14	146	268	334	130	137	97	49	16	7.9	5.4	5.3
13	18	196	195	359	121	139	114	47	14	8.2	8.4	5.3
14	18	107	149	402	154	131	103	45	19	11	5.8	5.3
15	19	74	112	465	346	120	85	53	51	13	5.7	5.1
16	19	59	92	311	300	111	73	45	30	11	5.2	5.6
17	22	51	86	198	205	104	65	38	20	17	5.4	8.1
18	27	56	77	144	158	98	63	36	18	20	5.1	10
19	159	157	71	131	130	92	61	35	16	75	5.0	10
20	85	523	e59	124	117	120	62	74	19	37	4.9	9.7
21	47	529	e45	121	122	123	58	60	15	16	5.0	11
22	37	240	e42	e110	117	107	72	42	14	11	4.9	12
23	31	164	189	e100	103	137	340	38	13	11	4.9	10
24	41	162	439	e94	100	208	430	34	12	11	4.5	20
25	50	356	289	e88	102	157	462	32	12	8.8	4.5	15
26	37	344	165	e82	102	142	412	31	11	11	6.1	10
27	32	213	117	e78	102	130	352	28	9.9	12	8.1	12
28	30	199	92	e76	135	291	310	26	9.7	8.9	8.4	12
29	29	187	85	e74	---	1160	204	28	10	7.3	12	14
30	28	151	89	e80	---	1160	279	28	10	6.8	17	18
31	28	---	93	94	---	567	---	26	---	6.4	56	---
TOTAL	1002	4609	5842	11249	3858	7524	7591	2055	549.6	544.5	266.0	308.4
MEAN	32.3	154	188	363	138	243	253	66.3	18.3	17.6	8.58	10.3
MAX	159	529	584	1430	346	1160	982	286	51	82	56	33
MIN	14	26	42	74	96	92	58	26	9.7	6.4	4.5	5.1
CFSM	0.32	1.54	1.89	3.64	1.38	2.43	2.54	0.66	0.18	0.18	0.09	0.10
IN.	0.37	1.72	2.18	4.20	1.44	2.81	2.83	0.77	0.21	0.20	0.10	0.12
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999-2005, BY WATER YEAR (WY)												
MEAN	20.4	84.5	100	159	205	216	168	170	71.5	29.4	17.8	68.3
MAX	44.5	250	208	363	588	323	265	375	145	91.1	64.4	367
(WY)	2004	2004	2004	2005	2000	2002	2004	2001	2001	2003	2003	2004
MIN	8.22	13.0	20.4	29.4	44.0	129	70.1	29.5	10.5	6.82	6.98	5.52
(WY)	2001	2001	1999	2001	2002	2001	2001	1999	1999	1999	2000	1999
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1999-2005		
ANNUAL TOTAL				62406			45398.5					
ANNUAL MEAN				171			124					
HIGHEST ANNUAL MEAN										114		
LOWEST ANNUAL MEAN										181		
HIGHEST DAILY MEAN				5270 Sep 18			1430 Jan 7			7460 Feb 19		
LOWEST DAILY MEAN				10 Aug 10			4.5 Aug 24			2.1 Sep 29		
ANNUAL SEVEN-DAY MINIMUM				11 Aug 9			4.8 Aug 19			3.1 Aug 2		
MAXIMUM PEAK FLOW							1530 Jan 6a			8450 Feb 19		
MAXIMUM PEAK STAGE							12.16 Jan 6			15.83 Feb 19		
INSTANTANEOUS LOW FLOW							4.3 Aug 5			2.1 Sep 29		
ANNUAL RUNOFF (CFSM)				1.71			1.25			1.14		
ANNUAL RUNOFF (INCHES)				23.28			16.94			15.53		
10 PERCENT EXCEEDS				403			310			261		
50 PERCENT EXCEEDS				87			59			40		
90 PERCENT EXCEEDS				15			6.9			7.7		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03201980 Little Raccoon Creek near Ewington, Ohio—Continued

Water-Quality Records

PERIOD OF RECORD.—July 1984 to June 1985, December 21, 1998 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: December 1998 to current year.

pH: December 1998 to current year.

WATER TEMPERATURE: December 1998 to current year.

DISSOLVED OXYGEN: December 1998 to current year.

SUSPENDED SEDIMENT DISCHARGE: August 1984 to June 1985 (discontinued).

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunctions of the instrument. Specific conductance and water temperature records are good. pH records are fair. Dissolved oxygen records are fair except Feb.15-Mar.17 and Aug. 30-Sept. 13, which are poor.

EXTREMES FOR PERIOD OF RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 1,560 microsiemens, Sept. 27, 2005; minimum, 164 microsiemens, Feb. 20, 2000.

pH: Maximum, 8.1 units, July 25, 2002; minimum, 4.8 units, Nov. 2, 1999.

WATER TEMPERATURE: Maximum, 29.5°C, Aug. 3 and 5, 2002; minimum 0.0°C, on several days during winter.

DISSOLVED OXYGEN: Maximum, 14.9 mg/L, Jan. 1, 1999; minimum, 2.4 mg/L, Sept. 20, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 1,560 microsiemens, Sept. 27; minimum, 256 microsiemens, Mar. 30.

pH: Maximum, 7.7 units, Aug. 29; minimum, 6.2 units, Apr. 5 and 23.

WATER TEMPERATURE: Maximum, 27.5°C, July 25; minimum 0.3°C, on several days.

DISSOLVED OXYGEN: Maximum, 14.7 mg/L, Jan. 28; minimum 4.8 mg/L, July 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(00061), USGS National Water Information System parameter code; cfs, cubic feet per second; mg/L, milligrams per liter; µg/L, micrograms per liter; std, standard; µS/cm, microsiemens per centimeter; deg C, degrees Celsius; --, no data; E, estimated]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd, field, std units (00400)	Specific conductance, water, unfltrd, µS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Acidity water, unfltrd, heated, mg/L as CaCO ₃ (70508)	Alkalinity, water, flt, inc. titr., field, mg/L as CaCO ₃ (39086)
Oct. 18	1145	18	9.4	7.2	948	11.0	10.0	--	40
Dec. 20	1200	59	13.2	7.0	493	-10.0	1.0	--	33
Feb. 3	1030	102	13.0	6.8	570	3.5	3.0	--	35
Apr. 19	1130	58	8.9	6.7	560	21.2	16.0	--	33
June 14	1300	19	7.0	7.3	862	32.0	25.0	--	54
Aug. 16	1145	5.1	6.5	7.6	822	25.5	24.5	--	67

Date	Bicarbonate, water, flt, incrm. titr., field, mg/L (00453)	Sulfate, water, fltrd, mg/L (00945)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd, recoverable, µg/L (01105)	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd, recoverable, µg/L (01045)	Manganese, water, fltrd, µg/L (01056)	Manganese, water, unfltrd, recoverable, µg/L (01055)
Oct. 18	48	422	8	120	59	340	2000	1990
Dec. 20	40	185	16	960	1040	2480	1550	1440
Feb. 3	42	207	14	1250	902	2490	1530	1430
Apr. 19	41	207	17	520	101	1020	1280	1240
June 14	66	343	24	80	E5	250	1200	1150
Aug. 16	82	299	20	60	E3	290	195	202

03201980 Little Raccoon Creek near Ewington, Ohio—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	721	687	706	718	684	703	500	369	420	---	---	---
2	738	703	713	722	693	711	438	296	340	---	---	---
3	738	697	711	693	654	666	393	295	336	---	---	---
4	725	704	717	721	636	675	392	363	370	---	---	---
5	737	719	731	904	544	666	386	367	381	---	---	---
6	751	734	745	582	532	550	407	386	394	---	---	---
7	749	725	737	582	555	565	439	407	421	---	---	---
8	747	732	739	557	549	554	497	424	450	---	---	---
9	770	742	748	551	539	547	437	414	429	---	---	---
10	785	770	780	541	535	538	567	404	453	---	---	---
11	796	773	789	551	539	545	410	388	396	---	---	---
12	807	781	796	594	466	522	389	373	383	---	---	---
13	806	787	797	784	488	563	382	373	379	---	---	---
14	811	790	802	506	474	489	384	379	382	---	---	---
15	799	782	791	475	468	472	400	383	394	---	---	---
16	917	794	868	486	475	478	422	400	411	---	---	---
17	934	888	914	507	486	501	441	421	428	---	---	---
18	974	803	934	525	506	517	453	441	448	---	---	---
19	1100	705	798	524	463	504	474	452	459	---	---	---
20	705	607	634	752	357	486	491	474	484	---	---	---
21	708	622	655	402	341	352	---	---	---	464	443	453
22	713	696	704	414	372	391	---	---	---	480	456	468
23	735	687	713	397	372	386	529	455	495	518	480	507
24	741	656	697	404	390	392	660	341	437	550	498	509
25	752	682	717	551	404	455	362	336	347	581	545	565
26	800	658	748	442	382	394	364	337	354	571	542	553
27	658	630	638	382	362	376	373	354	367	566	547	552
28	647	635	641	430	358	381	384	373	376	567	532	553
29	668	640	658	428	394	401	---	---	---	578	549	559
30	687	668	680	397	386	392	---	---	---	585	561	569
31	692	677	686	---	---	---	---	---	---	584	570	575
MONTH	1100	607	742	904	341	506	660	295	405	585	443	533

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	590	559	572	643	457	532	386	357	374	464	388	407
2	590	578	584	457	407	421	429	372	394	388	374	378
3	582	559	572	413	400	408	384	300	329	391	376	385
4	580	557	575	435	404	423	300	281	291	415	391	404
5	557	540	547	448	423	437	357	300	337	455	415	438
6	540	518	524	577	441	495	396	357	382	496	455	475
7	518	502	506	499	426	466	416	396	404	522	496	509
8	505	493	498	472	417	437	460	416	441	540	514	522
9	521	487	507	467	436	448	449	440	445	539	520	527
10	530	483	504	449	433	441	469	446	462	536	520	525
11	492	460	480	458	434	447	492	468	485	571	528	557
12	469	459	465	466	453	461	512	491	500	589	565	582
13	477	467	471	492	464	478	577	498	536	611	576	602
14	474	454	462	544	491	524	577	535	548	629	603	616
15	648	396	506	559	538	549	563	540	555	647	591	621
16	396	374	378	562	525	548	547	536	542	756	641	693
17	396	377	384	572	531	549	542	533	537	679	642	649
18	412	396	405	582	566	574	555	536	544	645	619	632
19	434	412	426	602	559	582	567	555	560	671	616	648
20	467	427	446	675	583	616	638	567	598	785	649	692
21	483	447	459	674	591	616	649	614	626	985	635	744
22	483	475	478	616	592	607	690	649	671	646	603	628
23	487	474	482	594	535	581	718	480	586	607	600	603
24	505	482	489	803	523	616	513	374	436	653	600	628
25	528	505	520	559	493	523	406	360	378	656	635	648
26	548	512	522	494	479	488	360	328	336	657	635	646
27	551	526	544	479	458	467	410	332	363	668	654	658
28	526	475	511	463	415	448	365	343	350	660	631	646
29	---	---	---	455	302	379	368	354	360	660	626	636
30	---	---	---	302	256	265	462	358	377	694	660	672
31	---	---	---	358	265	309	---	---	---	712	684	703
MONTH	648	374	493	803	256	488	718	281	458	985	374	583

03201980 Little Raccoon Creek near Ewington, Ohio—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	684	650	661	1510	819	1070	---	---	---	1450	1000	1170
2	679	659	669	1170	926	992	---	---	---	1010	925	948
3	743	679	703	998	850	924	---	---	---	983	910	957
4	754	687	726	850	837	846	---	---	---	910	834	867
5	745	675	706	837	783	801	---	---	---	834	798	816
6	798	745	775	801	786	795	---	---	---	798	791	793
7	782	735	753	788	678	745	---	---	---	811	793	801
8	776	571	682	678	408	522	---	---	---	824	811	818
9	783	673	741	790	559	717	---	---	---	836	822	826
10	896	783	835	854	776	815	---	---	---	838	816	834
11	996	890	931	912	851	866	---	---	---	816	789	795
12	993	845	924	922	852	886	---	---	---	804	789	798
13	906	849	886	876	849	865	---	---	---	835	804	819
14	867	737	823	849	779	823	---	---	---	846	834	838
15	900	693	796	869	783	843	---	---	---	848	845	846
16	1380	802	1010	893	847	866	---	---	---	860	847	852
17	802	724	746	938	778	844	---	---	---	890	860	881
18	875	742	789	959	871	896	---	---	---	934	880	903
19	878	794	830	1340	800	952	---	---	---	1010	934	954
20	832	806	822	958	764	808	---	---	---	1060	984	1030
21	806	298	539	764	747	750	---	---	---	997	975	982
22	798	743	778	748	741	744	---	---	---	1040	974	990
23	816	774	788	788	748	766	---	---	---	1060	1010	1040
24	844	794	811	868	788	835	---	---	---	1050	959	988
25	939	844	887	875	828	849	846	831	838	1160	1030	1100
26	949	931	939	866	792	824	853	816	836	1090	972	999
27	965	934	954	---	---	---	855	793	816	1560	1090	1380
28	958	945	951	---	---	---	871	800	822	1180	942	1020
29	960	939	950	---	---	---	879	799	849	942	893	917
30	942	860	911	---	---	---	801	706	750	1030	855	915
31	---	---	---	---	---	---	1120	646	860	---	---	---
MONTH	1380	298	811	1510	408	832	1120	646	824	1560	789	929
YEAR	1560	256	627									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	7.2	7.2	7.2	7.1	7.1	7.1	7.0	6.6	6.8	---	---	---
2	7.2	7.2	7.2	7.1	7.1	7.1	6.9	6.8	6.9	---	---	---
3	7.3	7.2	7.2	7.1	7.1	7.1	6.8	6.4	6.7	---	---	---
4	7.3	7.3	7.3	7.1	6.8	6.9	6.6	6.4	6.5	---	---	---
5	7.3	7.2	7.3	7.0	6.4	6.9	6.8	6.6	6.6	---	---	---
6	7.3	7.2	7.3	7.0	7.0	7.0	6.8	6.8	6.8	---	---	---
7	7.3	7.2	7.3	7.0	6.9	7.0	6.9	6.7	6.8	---	---	---
8	7.3	7.2	7.3	7.0	7.0	7.0	6.9	6.7	6.8	---	---	---
9	7.3	7.2	7.2	7.0	7.0	7.0	7.0	6.8	7.0	---	---	---
10	7.2	7.1	7.2	7.0	7.0	7.0	7.0	6.5	6.9	---	---	---
11	7.2	7.2	7.2	7.0	7.0	7.0	7.0	6.8	6.9	---	---	---
12	7.2	7.1	7.2	7.0	6.3	6.9	6.8	6.6	6.7	---	---	---
13	7.3	7.2	7.2	6.9	6.3	6.8	6.7	6.6	6.7	---	---	---
14	7.2	7.1	7.1	6.9	6.8	6.9	6.9	6.7	6.7	---	---	---
15	7.1	7.1	7.1	6.9	6.8	6.9	6.9	6.9	6.9	---	---	---
16	7.1	7.0	7.1	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---
17	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.9	6.9	---	---	---
18	7.1	6.8	7.0	6.8	6.8	6.8	6.9	6.9	6.9	---	---	---
19	7.0	6.4	6.9	6.8	6.4	6.7	7.0	6.9	6.9	---	---	---
20	7.0	6.9	7.0	7.0	6.3	6.8	7.0	7.0	7.0	---	---	---
21	6.9	6.9	6.9	6.8	6.5	6.7	---	---	---	---	---	---
22	6.9	6.9	6.9	6.5	6.3	6.4	---	---	---	---	---	---
23	7.0	6.9	6.9	6.7	6.5	6.6	---	---	---	---	---	---
24	6.9	6.8	6.9	6.8	6.7	6.8	---	---	---	---	---	---
25	6.9	6.7	6.9	7.0	6.6	6.8	---	---	---	---	---	---
26	7.0	6.8	7.0	7.0	6.5	6.8	---	---	---	---	---	---
27	7.0	7.0	7.0	6.6	6.5	6.5	---	---	---	---	---	---
28	7.0	7.0	7.0	6.8	6.6	6.7	---	---	---	6.6	6.5	6.6
29	7.0	7.0	7.0	6.8	6.6	6.6	---	---	---	6.7	6.6	6.6
30	7.0	7.0	7.0	6.8	6.6	6.8	---	---	---	6.7	6.6	6.6
31	7.1	7.0	7.0	---	---	---	---	---	---	6.7	6.5	6.7
MAX	7.3	7.3	7.3	7.1	7.1	7.1	7.0	7.0	7.0	6.7	6.6	6.7
MIN	6.9	6.4	6.9	6.5	6.3	6.4	6.6	6.4	6.5	6.6	6.5	6.6

03201980 Little Raccoon Creek near Ewington, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.7	6.6	6.7	6.8	6.6	6.7	6.7	6.5	6.5	6.4	6.3	6.4
2	6.7	6.6	6.7	6.8	6.5	6.7	6.8	6.4	6.6	6.4	6.3	6.4
3	6.8	6.6	6.7	6.6	6.5	6.5	6.8	6.6	6.8	6.5	6.4	6.4
4	6.7	6.6	6.6	6.6	6.5	6.5	6.8	6.4	6.7	6.5	6.4	6.5
5	6.7	6.6	6.6	6.6	6.5	6.6	6.7	6.2	6.6	6.6	6.4	6.6
6	6.7	6.6	6.7	6.6	6.5	6.6	6.6	6.3	6.5	6.7	6.6	6.6
7	6.7	6.6	6.7	6.6	6.6	6.6	6.7	6.6	6.6	6.7	6.7	6.7
8	6.7	6.6	6.6	6.6	6.5	6.6	6.7	6.5	6.6	6.8	6.7	6.7
9	6.6	6.6	6.6	6.6	6.5	6.6	6.8	6.5	6.8	6.8	6.7	6.7
10	6.6	6.5	6.5	6.6	6.6	6.6	6.9	6.4	6.8	6.8	6.7	6.7
11	6.7	6.6	6.6	6.6	6.6	6.6	6.9	6.5	6.8	6.8	6.7	6.8
12	6.7	6.6	6.7	6.6	6.5	6.6	6.9	6.8	6.9	6.9	6.8	6.8
13	6.8	6.7	6.7	6.7	6.6	6.6	6.9	6.4	6.6	6.9	6.8	6.9
14	6.8	6.6	6.7	6.7	6.6	6.7	6.7	6.3	6.5	6.9	6.8	6.8
15	6.8	6.4	6.8	6.7	6.6	6.7	6.7	6.6	6.7	6.8	6.7	6.8
16	6.8	6.6	6.6	6.8	6.7	6.7	6.8	6.6	6.7	6.9	6.3	6.8
17	6.7	6.6	6.6	6.9	6.7	6.8	6.8	6.5	6.7	6.9	6.8	6.9
18	6.8	6.6	6.7	6.9	6.7	6.8	6.7	6.6	6.7	6.9	6.8	6.8
19	6.8	6.7	6.7	6.9	6.9	6.9	6.8	6.6	6.7	7.0	6.9	6.9
20	6.8	6.7	6.8	6.9	6.7	6.9	6.8	6.3	6.6	6.9	6.7	6.9
21	6.8	6.7	6.8	6.9	6.7	6.9	6.8	6.6	6.8	7.0	6.8	7.0
22	6.8	6.7	6.8	6.9	6.8	6.9	6.9	6.8	6.8	7.0	6.9	7.0
23	6.9	6.8	6.8	6.9	6.7	6.8	7.1	6.2	6.7	7.0	7.0	7.0
24	6.9	6.8	6.9	7.0	6.5	6.8	6.6	6.5	6.5	7.0	7.0	7.0
25	6.9	6.8	6.8	6.9	6.8	6.8	6.5	6.4	6.4	7.2	7.0	7.1
26	6.9	6.8	6.8	6.8	6.7	6.8	6.5	6.4	6.4	7.2	7.1	7.2
27	6.9	6.8	6.9	6.9	6.8	6.8	6.5	6.3	6.4	7.2	7.2	7.2
28	6.9	6.8	6.9	6.8	6.5	6.7	6.5	6.3	6.4	7.2	7.2	7.2
29	---	---	---	6.7	6.5	6.6	6.4	6.3	6.4	7.2	7.2	7.2
30	---	---	---	6.7	6.4	6.7	6.4	6.3	6.4	7.2	7.1	7.2
31	---	---	---	6.7	6.5	6.6	---	---	---	7.3	7.2	7.2
MAX	6.9	6.8	6.9	7.0	6.9	6.9	7.1	6.8	6.9	7.3	7.2	7.2
MIN	6.6	6.4	6.5	6.6	6.4	6.5	6.4	6.2	6.4	6.4	6.3	6.4

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	7.3	7.2	7.2	7.5	7.3	7.4	---	---	---	7.2	7.0	7.1
2	7.2	7.2	7.2	7.4	7.3	7.4	---	---	---	7.2	7.1	7.2
3	7.2	6.7	7.1	7.4	7.3	7.4	---	---	---	7.3	7.2	7.2
4	7.1	6.8	7.0	7.4	7.3	7.3	---	---	---	7.3	7.2	7.2
5	7.2	7.0	7.2	7.3	7.3	7.3	---	---	---	7.2	7.2	7.2
6	7.2	7.1	7.2	7.3	7.2	7.3	---	---	---	7.3	7.2	7.2
7	7.2	7.2	7.2	7.3	7.2	7.3	---	---	---	7.4	7.2	7.2
8	7.3	7.1	7.2	7.3	6.6	7.0	---	---	---	7.3	7.2	7.3
9	7.3	7.2	7.2	7.1	6.7	7.0	---	---	---	7.3	7.2	7.3
10	7.3	7.2	7.2	7.2	7.1	7.2	---	---	---	7.3	7.1	7.2
11	7.3	7.2	7.3	7.2	7.2	7.2	---	---	---	7.3	7.1	7.2
12	7.3	6.3	6.6	7.2	7.2	7.2	---	---	---	7.3	7.1	7.3
13	6.9	6.3	6.5	7.3	7.2	7.3	---	---	---	---	---	---
14	7.1	6.9	7.1	7.4	7.3	7.3	---	---	---	---	---	---
15	7.1	6.8	7.0	7.5	7.4	7.5	---	---	---	---	---	---
16	7.2	7.1	7.2	7.5	7.4	7.4	---	---	---	---	---	---
17	7.2	7.2	7.2	7.4	7.4	7.4	---	---	---	---	---	---
18	7.2	7.1	7.1	7.5	7.4	7.4	---	---	---	---	---	---
19	7.2	7.1	7.1	7.5	7.2	7.3	---	---	---	---	---	---
20	7.2	7.1	7.1	7.4	7.3	7.3	---	---	---	7.3	6.6	6.8
21	7.2	6.9	7.0	7.3	7.2	7.3	---	---	---	6.6	6.5	6.6
22	7.2	7.1	7.1	7.3	7.2	7.3	---	---	---	6.6	6.4	6.5
23	7.2	7.1	7.2	7.3	7.2	7.3	---	---	---	6.7	6.3	6.4
24	7.2	7.1	7.2	7.3	7.2	7.3	---	---	---	6.7	6.7	6.7
25	7.2	7.2	7.2	7.2	7.1	7.2	7.6	7.6	7.6	7.0	6.6	6.7
26	7.3	7.2	7.3	7.3	7.2	7.3	7.6	7.6	7.6	7.1	7.0	7.1
27	7.3	7.2	7.3	---	---	---	7.6	7.5	7.5	7.1	7.1	7.1
28	7.3	7.2	7.3	---	---	---	7.5	7.4	7.4	7.1	7.1	7.1
29	7.4	7.3	7.4	---	---	---	7.7	7.5	7.6	7.1	7.0	7.1
30	7.5	7.4	7.4	---	---	---	7.6	7.2	7.3	7.1	7.0	7.1
31	---	---	---	---	---	---	7.3	6.8	7.0	---	---	---
MAX	7.5	7.4	7.4	7.5	7.4	7.5	7.7	7.6	7.6	7.4	7.2	7.3
MIN	6.9	6.3	6.5	7.1	6.6	7.0	7.3	6.8	7.0	6.6	6.3	6.4
YEAR	MAX	MAXIMUM 7.7 MINIMUM 6.4		MIN	MAXIMUM 7.6 MINIMUM 6.2		MEDIAN	MAXIMUM 7.6 MINIMUM 6.4				

03201980 Little Raccoon Creek near Ewington, Ohio—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	17.7	16.1	16.9	15.4	14.5	14.8	11.0	7.9	8.4	---	---	---
2	17.3	17.0	17.2	15.4	14.2	14.8	8.2	6.5	7.0	---	---	---
3	17.0	15.5	16.1	15.4	14.1	14.6	8.9	6.1	7.2	---	---	---
4	15.8	14.3	15.1	14.1	13.5	13.8	8.8	6.1	7.0	---	---	---
5	15.2	13.8	14.3	13.5	11.9	12.8	6.2	5.5	5.8	---	---	---
6	13.8	12.4	13.0	11.9	10.5	11.1	7.5	5.8	6.5	---	---	---
7	13.1	12.0	12.6	11.7	10.0	10.8	10.1	7.5	8.8	---	---	---
8	13.7	12.3	12.9	11.4	10.0	10.4	10.3	9.8	10.1	---	---	---
9	14.8	13.3	14.0	10.0	8.1	8.8	9.8	8.9	9.2	---	---	---
10	15.8	14.2	14.9	8.7	7.0	7.9	9.1	8.7	8.9	---	---	---
11	14.5	13.1	13.9	9.2	7.9	8.5	9.2	8.8	9.0	---	---	---
12	13.7	12.4	12.9	9.4	9.0	9.2	8.8	7.8	8.3	---	---	---
13	13.5	12.4	13.0	9.2	8.1	8.9	7.9	6.3	7.2	---	---	---
14	13.8	13.4	13.7	8.1	7.0	7.4	6.3	4.3	5.3	---	---	---
15	13.7	12.7	13.3	7.4	6.3	6.9	4.3	3.1	3.6	---	---	---
16	12.7	11.8	12.2	7.8	6.6	7.1	3.1	2.3	2.8	---	---	---
17	11.8	10.9	11.4	8.9	7.6	8.0	3.7	3.0	3.3	---	---	---
18	11.0	9.8	10.3	10.5	8.9	9.7	3.5	2.6	3.0	---	---	---
19	11.3	10.0	10.6	12.1	10.5	11.1	3.4	1.8	3.1	---	---	---
20	13.2	11.3	12.3	13.0	12.1	12.6	1.8	0.5	0.8	---	---	---
21	14.0	13.2	13.5	13.0	12.2	12.4	---	---	---	1.4	0.9	1.2
22	14.3	13.1	13.8	12.5	11.7	12.2	---	---	---	1.1	0.7	1.0
23	14.0	12.6	13.3	11.9	11.5	11.7	2.8	2.1	2.5	0.7	0.3	0.4
24	15.3	13.8	14.5	11.8	11.5	11.7	2.1	1.0	1.4	0.4	0.3	0.4
25	15.0	13.3	14.2	11.9	10.0	11.2	---	---	---	0.6	0.3	0.4
26	14.5	12.6	13.6	10.0	8.6	9.1	2.2	1.6	1.9	0.5	0.4	0.4
27	14.5	14.0	14.2	9.0	8.3	8.6	1.6	1.0	1.3	0.6	0.3	0.4
28	15.4	14.3	14.8	8.5	8.2	8.4	1.2	0.7	0.9	0.6	0.3	0.4
29	15.9	14.7	15.2	8.2	7.9	8.0	---	---	---	0.5	0.4	0.5
30	16.6	15.5	16.0	7.9	7.3	7.7	---	---	---	1.5	0.5	0.9
31	16.6	15.4	15.8	---	---	---	---	---	---	2.3	1.2	1.6
MONTH	17.7	9.8	13.9	15.4	6.3	10.3	11.0	0.5	5.3	2.3	0.3	0.7

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	2.9	1.8	2.3	5.2	3.4	4.3	11.9	10.6	11.0	12.4	11.4	11.9
2	2.6	1.8	2.2	3.4	2.4	2.8	10.6	8.2	9.4	12.2	11.5	11.9
3	3.1	2.2	2.8	3.0	1.9	2.4	10.0	7.0	8.2	11.8	10.7	11.2
4	3.1	2.3	2.7	2.5	2.0	2.2	12.1	9.0	10.2	12.2	10.1	11.1
5	3.3	2.2	2.7	3.6	2.2	2.8	12.7	10.4	11.6	13.4	10.8	11.9
6	3.6	2.7	3.1	5.1	3.1	4.0	14.4	12.2	13.1	15.4	13.0	13.9
7	5.0	3.5	4.2	6.4	4.9	5.6	14.4	13.8	14.2	15.7	13.7	14.5
8	6.3	5.0	5.7	6.5	5.0	6.0	15.9	13.8	14.6	17.2	13.7	15.2
9	6.6	6.3	6.5	5.0	3.5	4.1	16.3	13.7	14.9	18.2	14.4	16.1
10	6.4	4.4	5.5	3.8	2.7	3.3	17.0	14.1	15.5	19.3	15.9	17.3
11	4.4	2.8	3.3	3.9	3.4	3.6	17.7	15.4	16.5	20.5	17.1	18.6
12	3.7	2.2	2.8	4.5	3.1	3.8	17.0	14.9	16.2	20.4	18.5	19.0
13	4.2	3.0	3.4	5.1	3.9	4.5	16.1	14.7	15.2	19.7	16.9	18.2
14	5.9	4.2	5.0	5.9	4.0	4.9	16.1	13.7	14.8	19.5	18.5	19.0
15	6.1	5.4	5.8	6.4	4.4	5.4	16.4	13.5	14.8	19.0	17.4	18.3
16	6.7	6.0	6.4	6.6	5.8	6.2	16.7	13.3	14.8	18.1	15.8	16.3
17	6.4	4.7	5.5	7.7	6.0	6.7	16.9	12.7	14.7	16.6	13.8	15.2
18	4.7	3.3	4.0	8.5	6.4	7.3	17.9	14.6	16.0	17.4	14.2	15.8
19	3.3	2.1	2.8	8.1	7.1	7.5	19.2	15.3	17.0	17.3	15.6	16.5
20	3.6	2.8	3.0	7.8	7.1	7.5	19.9	16.0	17.9	17.1	16.4	16.7
21	5.4	3.6	4.6	7.7	6.4	7.0	19.3	17.0	17.5	18.0	15.1	16.5
22	6.3	5.4	5.7	7.5	5.8	6.7	17.0	15.6	16.1	17.5	15.2	16.2
23	6.6	5.7	6.1	8.1	7.1	7.7	16.3	12.4	14.2	17.6	15.6	16.6
24	6.1	4.3	5.2	8.1	6.8	7.4	12.4	10.0	10.9	17.3	15.7	16.3
25	4.6	3.5	4.1	7.5	6.3	6.8	12.0	9.2	10.2	17.1	14.8	15.9
26	4.8	3.5	4.1	8.8	7.2	7.8	12.7	12.0	12.4	18.1	15.0	16.5
27	5.2	3.9	4.5	8.7	7.9	8.3	12.6	11.8	12.1	18.8	16.9	17.9
28	5.3	4.8	5.1	9.1	8.6	8.8	12.0	11.2	11.6	18.6	16.8	17.7
29	---	---	---	10.3	8.3	9.1	12.0	11.6	11.8	18.7	16.2	17.4
30	---	---	---	12.2	9.5	10.6	12.1	11.9	12.0	18.6	16.6	17.2
31	---	---	---	12.2	11.2	11.7	---	---	---	18.7	15.6	17.0
MONTH	6.7	1.8	4.3	12.2	1.9	6.0	19.9	7.0	13.6	20.5	10.1	15.9

03201980 Little Raccoon Creek near Ewington, Ohio—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	19.1	16.9	18.1	24.6	23.3	24.1	---	---	---	22.9	21.6	22.3
2	19.1	18.1	18.5	24.2	22.4	23.4	---	---	---	22.7	21.4	22.1
3	19.2	17.6	18.2	24.0	22.3	23.3	---	---	---	22.2	20.7	21.4
4	20.4	18.4	19.2	24.9	23.4	24.1	---	---	---	21.5	19.7	20.5
5	21.8	19.6	20.5	25.4	24.2	24.6	---	---	---	21.7	18.8	20.0
6	23.2	21.3	22.2	25.4	23.9	24.5	---	---	---	21.5	18.7	19.8
7	24.2	22.6	23.3	24.2	22.8	23.6	---	---	---	21.6	18.4	19.7
8	24.5	22.9	23.8	23.0	21.4	22.2	---	---	---	21.2	17.9	19.3
9	24.6	23.4	24.1	24.7	22.5	23.2	---	---	---	21.2	18.2	19.4
10	25.2	23.6	24.4	25.1	22.4	23.5	---	---	---	21.8	18.9	20.0
11	25.2	24.1	24.6	25.0	22.5	23.5	---	---	---	21.9	18.8	20.1
12	25.2	23.9	24.5	25.4	23.5	24.3	---	---	---	21.9	18.9	20.1
13	25.2	24.5	24.8	24.7	23.9	24.2	---	---	---	21.8	18.9	20.3
14	24.9	23.6	24.1	24.2	23.3	23.7	---	---	---	21.9	19.1	20.3
15	24.2	22.4	23.4	24.6	23.5	23.9	---	---	---	22.1	19.7	20.7
16	23.5	21.7	22.4	25.4	24.0	24.5	---	---	---	22.3	20.5	21.2
17	21.7	19.8	20.8	24.5	24.2	24.4	---	---	---	22.0	21.0	21.4
18	21.2	19.7	20.4	25.2	23.9	24.5	---	---	---	21.1	19.9	20.5
19	20.2	19.0	19.7	25.8	24.4	25.1	---	---	---	21.0	19.0	19.8
20	20.9	19.3	20.0	26.2	24.4	25.2	---	---	---	21.1	19.5	20.1
21	22.1	20.7	21.3	26.2	24.6	25.5	---	---	---	21.4	19.8	20.3
22	22.9	21.1	21.8	26.1	25.0	25.5	---	---	---	21.1	19.4	20.1
23	22.9	21.0	21.9	26.2	24.2	25.1	---	---	---	21.7	20.0	20.5
24	23.6	21.2	22.2	25.7	24.4	25.0	---	---	---	21.5	20.6	21.0
25	24.1	21.8	22.7	27.5	24.8	25.6	23.4	20.4	21.8	22.1	21.3	21.7
26	24.9	22.2	23.3	27.3	25.1	25.9	22.9	21.3	21.6	22.1	21.3	21.9
27	26.2	23.0	24.3	---	---	---	22.6	21.6	22.0	21.5	20.0	20.7
28	26.3	24.2	25.1	---	---	---	24.0	21.6	22.5	20.2	18.6	19.4
29	26.6	24.0	25.0	---	---	---	22.9	22.3	22.6	20.0	18.3	19.4
30	26.1	24.4	25.0	---	---	---	22.6	22.1	22.3	18.3	16.0	16.8
31	---	---	---	---	---	---	22.7	21.9	22.3	---	---	---
MONTH	26.6	16.9	22.3	27.5	21.4	24.3	24.0	20.4	22.2	22.9	16.0	20.4
YEAR	27.5	0.3	13.4									

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	8.4	8.0	8.2	8.1	7.7	7.9	11.3	11.0	11.1	---	---	---
2	8.2	8.0	8.1	8.2	8.0	8.1	11.1	10.8	11.0	---	---	---
3	8.6	8.1	8.3	8.6	7.9	8.3	10.8	6.6	9.3	---	---	---
4	8.9	8.5	8.7	8.7	8.5	8.6	10.7	6.6	9.3	---	---	---
5	9.3	8.8	9.0	9.0	8.1	8.6	12.3	10.6	11.5	---	---	---
6	9.7	9.2	9.5	9.7	9.0	9.4	12.2	11.5	11.9	---	---	---
7	9.9	9.6	9.7	9.9	9.6	9.7	11.5	10.3	10.9	---	---	---
8	9.9	9.7	9.7	10.3	9.6	10.1	10.3	9.6	10.0	---	---	---
9	9.7	9.3	9.4	10.9	10.2	10.7	10.5	9.6	10.2	---	---	---
10	9.3	8.9	9.0	11.3	10.9	11.1	10.5	10.3	10.4	---	---	---
11	9.2	8.9	9.0	11.1	10.7	10.9	10.3	9.1	9.8	---	---	---
12	9.3	9.2	9.2	10.7	10.4	10.6	9.4	8.5	8.9	---	---	---
13	9.4	9.1	9.2	10.8	10.0	10.3	10.3	9.2	9.8	---	---	---
14	9.1	8.6	8.8	11.5	10.8	11.2	12.1	10.3	11.2	---	---	---
15	8.6	8.4	8.5	12.0	11.5	11.7	12.6	12.1	12.4	---	---	---
16	8.7	8.3	8.5	11.8	11.4	11.7	12.9	12.6	12.8	---	---	---
17	8.9	8.5	8.7	11.5	11.1	11.4	12.7	12.3	12.5	---	---	---
18	9.2	8.7	8.9	11.1	10.5	10.8	12.5	12.1	12.3	---	---	---
19	9.2	8.6	8.9	10.5	9.4	10.1	12.5	11.9	12.1	---	---	---
20	8.6	8.2	8.3	9.4	8.0	8.5	13.2	12.5	12.9	---	---	---
21	8.3	8.0	8.2	8.0	5.9	7.5	---	---	---	---	---	---
22	8.2	8.0	8.1	8.1	5.1	6.6	---	---	---	13.4	12.4	12.8
23	8.3	8.0	8.2	9.6	8.1	8.7	12.0	11.5	11.7	14.1	13.4	13.9
24	8.1	7.6	7.8	9.8	9.6	9.7	12.2	11.6	12.0	14.2	14.0	14.1
25	8.1	7.6	7.9	10.1	9.5	9.8	11.6	10.5	11.1	14.2	13.5	13.9
26	8.5	8.0	8.3	10.1	8.2	9.3	12.2	11.1	11.4	13.9	13.6	13.7
27	8.2	7.9	8.0	10.3	8.4	9.2	12.5	12.2	12.4	14.4	13.9	14.1
28	8.0	7.8	7.9	11.1	10.3	10.7	12.8	12.3	12.7	14.7	14.4	14.5
29	7.9	7.7	7.8	10.8	10.0	10.2	---	---	---	14.6	14.3	14.5
30	7.7	7.4	7.6	11.4	10.4	11.0	---	---	---	14.4	14.0	14.2
31	7.9	7.3	7.6	---	---	---	---	---	---	14.2	13.8	14.0
MONTH	9.9	7.3	8.5	12.0	5.1	9.7	13.2	6.6	11.2	14.7	12.4	14.0

03202000 Raccoon Creek at Adamsville, Ohio

LOCATION.—Latitude 38°52'24", longitude 82°21'22", Gallia County, Hydrologic Unit 05090101, on left bank downstream side of State Highway 588 at Adamsville, Ohio.

DRAINAGE AREA.—585 mi².

PERIOD OF RECORD.—June 1915 to December 1935, October 1938 to September 1985, October 1991 to current year.

REVISED RECORDS—WSP 873: 1916-18, 1920, 1922, 1924, 1926-27, 1931, 1933, 1935(M). WSP 1908: Drainage area. WSP 2108: 1968-70(M). OH-77-1: 1992-95 (datum).

GAGE.—Water-stage recorder. Datum of gage is 570.04 ft above sea level. July 8, 1984-October 21, 1997, water-stage recorder 1.7 mi downstream at datum 2.30 ft lower.

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	172	1620	504	e440	1510	4110	1730	137	41	47	81
2	148	174	2290	486	e460	1850	4430	1370	127	149	42	61
3	137	252	2570	647	483	1560	4280	1050	121	127	37	49
4	121	463	2210	1690	513	1100	3970	803	116	77	34	45
5	108	584	1500	2970	532	968	3780	646	108	61	30	42
6	97	605	900	3930	518	1060	2950	547	99	55	28	37
7	89	526	826	4660	508	1160	1480	477	93	48	39	29
8	87	414	870	5740	551	1650	988	423	88	47	38	27
9	82	327	926	6410	672	1410	834	373	87	52	30	24
10	78	277	1420	6460	903	1150	704	330	82	44	27	22
11	73	246	2140	5800	1050	927	597	296	79	41	26	19
12	70	793	1970	4150	978	832	530	267	81	37	24	19
13	68	837	1430	2450	793	791	520	245	73	35	22	17
14	72	812	1030	2880	876	742	490	234	73	37	21	15
15	74	664	810	3070	1410	651	432	242	85	42	23	14
16	77	485	652	3320	1900	572	374	236	123	44	21	15
17	75	395	563	2790	1690	516	333	232	84	43	18	12
18	104	377	506	1320	1190	479	307	205	68	59	20	12
19	391	959	470	845	900	443	290	193	63	155	22	15
20	541	2150	e400	e700	720	452	283	428	58	258	17	22
21	509	2540	e300	e620	647	524	269	334	56	141	17	19
22	381	2200	e290	e560	632	597	332	278	51	84	16	18
23	372	1330	717	e520	589	670	1070	247	48	65	15	23
24	309	932	e1500	e490	530	920	2480	207	46	56	14	22
25	283	1240	e1900	e460	502	1010	2980	185	43	50	13	29
26	255	1770	1620	e440	500	895	3030	176	42	46	15	43
27	234	1740	1050	e420	504	782	3420	169	40	49	22	35
28	217	1300	730	e410	718	1220	3100	157	38	76	23	27
29	198	1060	583	e390	---	3020	2260	152	36	122	24	27
30	187	943	531	e380	---	3620	1940	147	36	71	30	25
31	178	---	512	e420	---	4210	---	144	---	54	52	---
TOTAL	5772	26567	34836	65932	21709	37291	52563	12523	2281	2266	807	845
MEAN	186	886	1124	2127	775	1203	1752	404	76.0	73.1	26.0	28.2
MAX	541	2540	2570	6460	1900	4210	4430	1730	137	258	52	81
MIN	68	172	290	380	440	443	269	144	36	35	13	12
CFSM	0.32	1.51	1.92	3.64	1.33	2.06	3.00	0.69	0.13	0.12	0.04	0.05
IN.	0.37	1.69	2.22	4.19	1.38	2.37	3.34	0.80	0.15	0.14	0.05	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916-2005, BY WATER YEAR (WY)

MEAN	120	321	660	951	1180	1470	1194	900	426	235	194	149
MAX	986	1812	2562	2739	2989	4165	3231	4200	2244	1752	1548	1853
(WY)	1976	1920	1979	1950	1939	1963	1939	1968	1941	1958	1926	2004
MIN	2.63	5.49	7.92	24.0	44.7	248	224	79.6	29.3	11.3	7.16	3.35
(WY)	1931	1964	1964	1931	1954	1941	1971	1930	1930	1930	1922	1930

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1916-2005	
ANNUAL TOTAL	342882		263392			
ANNUAL MEAN	937		722		650	
HIGHEST ANNUAL MEAN					1095	
LOWEST ANNUAL MEAN					186	
HIGHEST DAILY MEAN	6870	Sep 20	6460	Jan 10	19600	May 28
LOWEST DAILY MEAN	24	Sep 7	12	Sep 17	1.1	Oct 17
ANNUAL SEVEN-DAY MINIMUM	33	Sep 1	14	Sep 13	1.3	Oct 14
MAXIMUM PEAK FLOW			6560		19600	
MAXIMUM PEAK STAGE			19.62		29.11	
INSTANTANEOUS LOW FLOW			12		1.1	
ANNUAL RUNOFF (CFSM)	1.60		1.23		1.11	
ANNUAL RUNOFF (INCHES)	21.80		16.75		15.10	
10 PERCENT EXCEEDS	2570		1950		1730	
50 PERCENT EXCEEDS	482		334		244	
90 PERCENT EXCEEDS	74		27		26	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Symmes Creek Basin

03205470 Symmes Creek at Aid, Ohio

LOCATION.—Latitude 38°35'46", longitude 82°29'43", Lawrence County, Hydrologic Unit 05090101, on right bank, at State Route 141 at Aid, 0.1 mi west of intersection with State Route 378, 1.2 mi downstream of Sharps Creek.

DRAINAGE AREA.—302 mi².

PERIOD OF RECORD.—November 1, 2000, to current year.

GAGE.—Water-stage recorder. Datum of gage is 560.00 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	51	87	1500	251	e195	1230	1160	1900	60	e14	2.6	136		
2	48	89	1390	238	e190	932	1900	1190	48	e66	2.3	104		
3	43	108	973	318	e190	730	2180	925	45	e36	2.1	59		
4	38	856	848	1140	e185	523	1700	582	44	e22	2.0	33		
5	33	1050	669	1810	e185	628	1570	361	43	e11	2.3	18		
6	30	785	469	2260	e185	970	1250	281	37	e8.8	2.3	12		
7	26	534	772	2060	e180	776	692	237	31	e8.2	1.8	8.9		
8	24	347	899	2720	e180	1740	446	207	28	e7.6	1.9	6.7		
9	22	248	663	2830	e190	1390	364	181	31	e7.0	1.8	5.3		
10	19	195	806	2320	355	1000	304	160	25	e6.6	1.8	4.5		
11	17	170	1220	1900	378	686	261	145	48	e6.0	1.9	4.2		
12	16	1160	1160	1360	346	520	230	130	42	e5.6	2.4	3.5		
13	16	1130	1020	800	309	505	214	119	52	e5.2	3.1	3.2		
14	15	839	874	930	449	504	206	132	e34	e4.9	3.8	2.8		
15	18	704	643	842	774	448	190	253	e43	e4.6	3.6	2.8		
16	18	524	433	732	685	379	170	200	64	22	4.4	3.3		
17	18	329	337	630	547	329	155	146	55	83	3.7	3.0		
18	25	261	292	446	419	291	144	118	37	70	3.6	2.8		
19	251	769	267	299	328	262	135	107	27	42	4.3	2.3		
20	327	1370	240	e260	282	299	127	706	22	37	3.4	2.4		
21	327	989	199	e250	293	311	120	571	18	34	2.8	2.5		
22	301	818	235	e245	292	275	121	384	15	21	2.3	2.9		
23	199	634	548	e240	260	329	215	252	12	14	1.9	4.2		
24	151	491	840	e230	239	607	745	193	e11.5	10	1.7	3.5		
25	138	614	e560	e225	228	571	951	156	e11	8.3	1.7	4.6		
26	139	584	e450	e220	231	475	971	132	e10.5	6.7	63	5.3		
27	127	561	e330	e215	229	382	1380	115	e10	6.1	170	4.4		
28	114	586	e280	e210	486	667	1020	100	e9.6	5.0	101	3.4		
29	105	520	305	e205	---	1870	740	82	e9.2	4.1	115	5.0		
30	99	468	269	e200	---	1430	1560	66	e9.1	3.2	145	3.5		
31	93	---	257	e195	---	1220	---	54	---	2.9	192	---		
TOTAL	2848	17820	19748	26581	8810	22279	21221	10185	931.9	582.8	851.5	457.0		
MEAN	91.9	594	637	857	315	719	707	329	31.1	18.8	27.5	15.2		
MAX	327	1370	1500	2830	774	1870	2180	1900	64	83	192	136		
MIN	15	87	199	195	180	262	120	54	9.1	2.9	1.7	2.3		
CFSM	0.30	1.97	2.11	2.84	1.04	2.38	2.34	1.09	0.10	0.06	0.09	0.05		
IN.	0.35	2.20	2.43	3.27	1.09	2.74	2.61	1.25	0.11	0.07	0.10	0.06		
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001-2005, BY WATER YEAR (WY)														
MEAN	78.0	373	452	411	545	748	635	880	364	57.4	53.0	295		
MAX	120	833	637	857	1181	1050	1029	1469	903	120	200	1207		
(WY)	2003	2004	2005	2005	2003	2002	2002	2001	2003	2003	2003	2004		
MIN	1.28	3.07	36.7	56.2	118	368	204	329	31.1	14.2	6.77	8.18		
(WY)	2002	2002	2002	2001	2002	2003	2001	2005	2005	2001	2001	2001		
SUMMARY STATISTICS														
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 2001-2005		
ANNUAL TOTAL				195639.9				132315.2						
ANNUAL MEAN				535				363				426		
HIGHEST ANNUAL MEAN												554	2004	
LOWEST ANNUAL MEAN												298	2002	
HIGHEST DAILY MEAN				6090	Sep 18			2830	Jan 9			6580	May 19	2001
LOWEST DAILY MEAN				9.1	Jul 21			1.7	Aug 24			0.43	Oct 11	2001
ANNUAL SEVEN-DAY MINIMUM				14	Aug 25			2.0	Aug 5			0.68	Oct 8	2001
MAXIMUM PEAK FLOW								1390	Jan 8a			7100	May 19	2001
MAXIMUM PEAK STAGE								17.97				23.56	May 19	2001
INSTANTANEOUS LOW FLOW												1.0	Sep 18	2001
ANNUAL RUNOFF (CFSM)				1.77				1.20				1.41		
ANNUAL RUNOFF (INCHES)				24.10				16.30				19.17		
10 PERCENT EXCEEDS				1370				993				1190		
50 PERCENT EXCEEDS				226				190				160		
90 PERCENT EXCEEDS				20				3.6				5.0		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Scioto River Basin

03219500 Scioto River near Prospect, Ohio

LOCATION.—Latitude 40°25'10", longitude 83°11'50", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of Hoskins Bridge, 1.5 mi upstream from Ottawa Creek, 2 mi south of Prospect, Ohio, and 2.5 mi downstream from Patton Run.

DRAINAGE AREA.—567 mi².

Water-Discharge Records

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, National Geodetic Vertical Datum of 1912 (levels by U.S. Army Corps of Engineers). July 24, 1925-Oct. 31, 1932, nonrecording gage at site 2.5 mi upstream at datum 4.8 ft higher; Oct. 16-Dec. 5, 1939, nonrecording gage at present site and datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality data collected at this site (sediment data formerly collected). U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 21.1 ft, discharge; 27,000 ft³/s, computed by Franklin County Conservancy District, at site and datum used 1925-32.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	25	39	762	3410	178	428	560	988	109	569	64	783		
2	24	36	1250	5580	165	454	839	721	100	342	44	829		
3	23	85	1320	6400	153	375	2010	571	94	181	33	499		
4	23	274	850	6290	147	325	2460	453	89	121	27	229		
5	23	634	533	6900	145	323	2290	369	86	94	40	121		
6	21	704	388	8180	153	510	1200	314	90	111	59	e74		
7	21	424	334	8000	236	776	679	283	92	80	41	52		
8	21	251	457	8010	1500	973	531	260	82	60	38	e40		
9	21	175	577	7190	2780	813	426	239	85	68	35	e33		
10	20	129	566	5740	3950	509	355	223	80	56	29	e29		
11	19	106	644	4680	3640	358	310	209	187	42	25	26		
12	20	99	814	6480	2450	311	275	e191	682	35	21	24		
13	21	95	786	6970	1410	269	252	171	380	32	20	20		
14	22	87	583	7960	1160	235	229	179	213	33	22	18		
15	25	80	400	7660	1330	207	208	205	149	36	24	17		
16	37	75	304	6840	1560	188	189	281	125	38	23	30		
17	35	72	269	5110	1660	181	171	e309	104	56	23	221		
18	31	76	245	3230	1580	181	162	248	88	65	22	452		
19	44	95	225	1810	1130	183	162	205	75	79	21	231		
20	48	385	207	1060	699	198	160	204	65	88	20	124		
21	46	788	e190	744	771	209	172	248	58	85	22	76		
22	47	593	e180	598	1200	237	176	317	53	81	22	52		
23	47	359	e175	458	1210	243	564	256	47	67	21	222		
24	49	309	e170	434	842	280	1880	221	43	51	24	907		
25	48	1040	e160	381	610	382	3310	198	41	40	25	740		
26	44	1630	e155	370	487	724	4060	172	77	37	21	1020		
27	46	2060	e150	301	386	1060	4130	150	109	56	19	1600		
28	48	1490	e145	274	343	1310	3470	135	92	74	18	1720		
29	46	803	e140	217	---	1420	2790	132	75	113	18	1510		
30	44	596	e180	200	---	1280	1750	126	115	142	19	944		
31	43	---	e1500	192	---	868	---	118	---	100	208	---		
TOTAL	1032	13589	14659	121669	31875	15810	35770	8696	3685	3032	1048	12643		
MEAN	33.3	453	473	3925	1138	510	1192	281	123	97.8	33.8	421		
MAX	49	2060	1500	8180	3950	1420	4130	988	682	569	208	1720		
MIN	19	36	140	192	145	181	160	118	41	32	18	17		
CFSM	0.06	0.80	0.83	6.92	2.01	0.90	2.10	0.49	0.22	0.17	0.06	0.74		
IN.	0.07	0.89	0.96	7.98	2.09	1.04	2.35	0.57	0.24	0.20	0.07	0.83		
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926-2005, BY WATER YEAR (WY)														
MEAN	123	262	501	748	779	997	893	521	425	267	123	110		
MAX	1643	2023	2451	3925	2166	3008	2771	1788	1915	2049	778	1651		
(WY)	1927	1973	1991	2005	1975	1978	1957	1996	1947	1992	1995	1926		
MIN	10.9	13.8	14.9	15.1	30.8	135	97.0	78.3	32.5	19.4	11.7	7.98		
(WY)	1945	1931	1964	1945	1964	1941	1946	1955	1988	1952	1932	1941		
SUMMARY STATISTICS														
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1926-2005		
ANNUAL TOTAL				255047				263508						
ANNUAL MEAN				697				722				477		
HIGHEST ANNUAL MEAN												853	2004	
LOWEST ANNUAL MEAN												127	1954	
HIGHEST DAILY MEAN				6760	Jun 16		8180	Jan 6		10000	Mar 22		1927	
LOWEST DAILY MEAN				19	Oct 11		17	Sep 15		4.5	Sep 14		1953	
ANNUAL SEVEN-DAY MINIMUM				20	Oct 6		20	Oct 6		5.9	Sep 25		1941	
MAXIMUM PEAK FLOW								8310	Jan 6a		10100	Mar 22		1927
MAXIMUM PEAK STAGE								14.18	Jan 6		15.00	Mar 22		1927
INSTANTANEOUS LOW FLOW								17	Aug 29		3.5	Sep 13		1953
ANNUAL RUNOFF (CFSM)				1.23				1.27				0.84		
ANNUAL RUNOFF (INCHES)				16.73				17.29				11.44		
10 PERCENT EXCEEDS				2000				1640				1330		
50 PERCENT EXCEEDS				267				192				133		
90 PERCENT EXCEEDS				42				25				19		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03219500 Scioto River near Prospect, Ohio—Continued
Water-Quality Records

PERIOD OF RECORD.—June 1998 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: June 1998 to current year.

pH: June 1998 to current year.

WATER TEMPERATURE: June 1998 to current year.

DISSOLVED OXYGEN: June 1998 to current year.

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunction of the instrument except for Dec. 8-Mar. 30, when monitor was turned off for the winter. Specific conductance records are good except Oct. 6-18, May 12-25, June 3-20, and Aug. 3-17, which are fair, and Nov. 18-Dec. 8 and Sept 22-30, which are poor. pH records are good except Nov. 5-18, Mar. 30-Apr. 14, Apr. 27-June 3, July 6-19, and Aug. 3-17, which are fair. Water temperature records are good. Dissolved oxygen records are fair except Oct. 18-Nov. 5, Nov. 18-Dec. 8, Mar. 30-Apr. 14, May 12-June 3, June 30-July 6, and July 19-Sept. 30, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 1,830 microsiemens, Jan. 16, 1999; minimum, 227 microsiemens, June 16, 2004.

pH: Maximum, 9.4 units, Nov. 28, 1999; minimum, 6.9 units, Apr. 10, 29, May 3 and 16, 2000.

WATER TEMPERATURE: Maximum, 32.5°C, July 31, 1999; minimum, 0.0°C, on many days during winter.

DISSOLVED OXYGEN: Maximum, 19.5 mg/L, July 21, 2004; minimum, 0.6 mg/L, June 13, 2005.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 961 microsiemens, Oct. 19; minimum, 327 microsiemens, June 12.

pH: Maximum, 8.7 units, Oct. 12; minimum, 7.0 units, July 1-2.

WATER TEMPERATURE: Maximum, 30.1°C, July 26; minimum, 4.7°C, Dec. 4-5 and Apr. 3.

DISSOLVED OXYGEN: Maximum, 18.9 mg/L, Oct. 12; minimum, 0.6 mg/L, June 13.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	828	798	815	902	887	893	871	810	842	---	---	---
2	830	814	826	906	894	902	823	672	744	---	---	---
3	832	821	828	920	902	909	706	655	672	---	---	---
4	833	822	829	921	764	851	807	706	754	---	---	---
5	839	829	835	797	647	747	908	807	858	---	---	---
6	857	837	848	664	528	593	935	908	927	---	---	---
7	866	849	859	632	533	601	930	828	890	---	---	---
8	869	852	863	666	632	647	---	---	---	---	---	---
9	884	867	877	710	666	686	---	---	---	---	---	---
10	898	877	890	741	710	726	---	---	---	---	---	---
11	904	874	892	765	741	756	---	---	---	---	---	---
12	901	860	885	798	765	781	---	---	---	---	---	---
13	899	856	882	831	798	812	---	---	---	---	---	---
14	883	854	871	844	831	837	---	---	---	---	---	---
15	893	868	876	852	840	846	---	---	---	---	---	---
16	913	893	901	843	834	837	---	---	---	---	---	---
17	938	913	924	857	841	848	---	---	---	---	---	---
18	957	938	945	893	857	872	---	---	---	---	---	---
19	961	936	953	918	893	903	---	---	---	---	---	---
20	936	897	909	925	848	905	---	---	---	---	---	---
21	917	877	904	848	701	773	---	---	---	---	---	---
22	890	849	864	742	702	720	---	---	---	---	---	---
23	906	855	890	783	742	761	---	---	---	---	---	---
24	872	853	858	825	783	805	---	---	---	---	---	---
25	907	872	889	825	637	708	---	---	---	---	---	---
26	915	905	910	650	471	528	---	---	---	---	---	---
27	915	906	912	546	464	488	---	---	---	---	---	---
28	937	910	923	683	546	626	---	---	---	---	---	---
29	939	912	930	785	683	733	---	---	---	---	---	---
30	912	889	895	843	785	821	---	---	---	---	---	---
31	890	884	887	---	---	---	---	---	---	---	---	---
MONTH	961	798	883	925	464	764	935	655	812	---	---	---

03219500 Scioto River near Prospect, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.3	7.6	7.8	7.8	7.6	7.7	7.7	7.6	7.7	---	---	---
2	8.1	7.6	7.8	7.8	7.6	7.7	7.6	7.6	7.6	---	---	---
3	8.2	7.6	7.8	7.7	7.7	7.7	7.6	7.5	7.6	---	---	---
4	8.2	7.6	7.8	7.7	7.6	7.6	7.6	7.5	7.6	---	---	---
5	8.2	7.6	7.8	7.8	7.7	7.7	7.7	7.6	7.7	---	---	---
6	8.3	7.5	7.8	7.7	7.6	7.7	7.7	7.7	7.7	---	---	---
7	8.3	7.6	7.9	7.7	7.6	7.7	7.8	7.7	7.7	---	---	---
8	8.4	7.6	8.0	7.7	7.6	7.7	7.8	7.8	7.8	---	---	---
9	8.4	7.6	8.0	7.7	7.6	7.6	---	---	---	---	---	---
10	8.4	7.7	8.0	7.7	7.6	7.7	---	---	---	---	---	---
11	8.5	7.8	8.1	7.7	7.7	7.7	---	---	---	---	---	---
12	8.7	7.8	8.2	7.8	7.7	7.7	---	---	---	---	---	---
13	8.4	7.8	8.1	7.9	7.7	7.8	---	---	---	---	---	---
14	8.4	7.7	8.1	7.9	7.7	7.7	---	---	---	---	---	---
15	8.1	7.7	7.9	7.8	7.7	7.7	---	---	---	---	---	---
16	7.9	7.6	7.7	7.8	7.6	7.7	---	---	---	---	---	---
17	8.0	7.5	7.7	7.8	7.7	7.7	---	---	---	---	---	---
18	7.9	7.5	7.8	7.8	7.6	7.7	---	---	---	---	---	---
19	8.0	7.7	7.7	7.7	7.6	7.6	---	---	---	---	---	---
20	8.0	7.7	7.7	7.7	7.6	7.6	---	---	---	---	---	---
21	7.8	7.7	7.7	7.7	7.6	7.7	---	---	---	---	---	---
22	7.9	7.6	7.7	7.6	7.6	7.6	---	---	---	---	---	---
23	7.7	7.6	7.6	7.6	7.6	7.6	---	---	---	---	---	---
24	7.9	7.6	7.7	7.7	7.6	7.6	---	---	---	---	---	---
25	7.9	7.6	7.7	7.7	7.4	7.5	---	---	---	---	---	---
26	7.9	7.6	7.7	7.5	7.4	7.4	---	---	---	---	---	---
27	7.8	7.6	7.7	7.4	7.4	7.4	---	---	---	---	---	---
28	7.8	7.6	7.6	7.5	7.4	7.5	---	---	---	---	---	---
29	7.7	7.6	7.6	7.6	7.5	7.5	---	---	---	---	---	---
30	7.9	7.6	7.7	7.7	7.6	7.7	---	---	---	---	---	---
31	8.0	7.7	7.7	---	---	---	---	---	---	---	---	---
MAX	8.7	7.8	8.2	7.9	7.7	7.8	7.8	7.8	7.8	---	---	---
MIN	7.7	7.5	7.6	7.4	7.4	7.4	7.6	7.5	7.6	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	---	---	---	---	---	---	7.9	7.7	7.7	8.0	7.8	7.9
2	---	---	---	---	---	---	8.2	7.7	7.9	8.0	7.9	8.0
3	---	---	---	---	---	---	7.7	7.7	7.7	8.1	8.0	8.0
4	---	---	---	---	---	---	7.7	7.7	7.7	8.1	8.0	8.0
5	---	---	---	---	---	---	7.7	7.6	7.7	8.0	7.9	8.0
6	---	---	---	---	---	---	7.9	7.7	7.8	8.0	7.9	7.9
7	---	---	---	---	---	---	7.9	7.8	7.9	8.1	7.9	8.0
8	---	---	---	---	---	---	8.0	7.9	7.9	8.3	8.0	8.1
9	---	---	---	---	---	---	8.0	7.9	8.0	8.4	8.0	8.1
10	---	---	---	---	---	---	8.1	7.9	8.0	8.2	8.0	8.1
11	---	---	---	---	---	---	8.1	8.0	8.1	8.2	7.8	8.0
12	---	---	---	---	---	---	8.2	8.1	8.1	7.9	7.7	7.8
13	---	---	---	---	---	---	8.3	8.1	8.1	7.9	7.6	7.8
14	---	---	---	---	---	---	8.2	8.1	8.1	7.8	7.6	7.7
15	---	---	---	---	---	---	8.2	8.0	8.1	7.8	7.6	7.7
16	---	---	---	---	---	---	8.3	8.0	8.1	7.8	7.6	7.7
17	---	---	---	---	---	---	8.3	8.0	8.1	8.1	7.7	7.8
18	---	---	---	---	---	---	8.3	8.0	8.1	7.9	7.7	7.8
19	---	---	---	---	---	---	8.4	8.0	8.2	7.7	7.6	7.7
20	---	---	---	---	---	---	8.5	7.6	8.2	7.7	7.6	7.7
21	---	---	---	---	---	---	8.4	8.0	8.2	7.9	7.6	7.8
22	---	---	---	---	---	---	8.2	8.0	8.1	7.9	7.8	7.9
23	---	---	---	---	---	---	8.0	7.7	8.0	7.9	7.8	7.8
24	---	---	---	---	---	---	7.7	7.7	7.7	7.8	7.8	7.8
25	---	---	---	---	---	---	7.7	7.6	7.7	7.8	7.8	7.8
26	---	---	---	---	---	---	7.7	7.6	7.7	8.0	7.8	7.8
27	---	---	---	---	---	---	7.7	7.6	7.6	8.0	7.9	8.0
28	---	---	---	---	---	---	7.8	7.7	7.8	8.0	7.9	8.0
29	---	---	---	---	---	---	7.8	7.8	7.8	8.1	7.9	8.1
30	---	---	---	---	---	---	7.9	7.8	7.8	8.1	8.0	8.0
31	---	---	---	7.7	7.5	7.6	---	---	---	8.3	8.0	8.2
MAX	---	---	---	7.7	7.5	7.6	8.5	8.1	8.2	8.4	8.0	8.2
MIN	---	---	---	7.7	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.7

03219500 Scioto River near Prospect, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.3	7.8	8.1	7.2	7.0	7.1	7.7	7.5	7.6	7.6	7.4	7.5
2	8.1	7.7	7.9	7.2	7.0	7.1	7.8	7.6	7.6	8.0	7.4	7.5
3	8.1	7.4	7.8	7.2	7.1	7.2	7.9	7.6	7.7	7.5	7.4	7.5
4	8.0	7.4	7.8	7.3	7.2	7.2	7.9	7.6	7.7	7.5	7.4	7.5
5	7.9	7.3	7.8	7.4	7.2	7.3	7.8	7.6	7.7	7.5	7.4	7.5
6	8.3	7.8	7.9	7.5	7.4	7.4	7.7	7.6	7.7	8.0	7.4	7.6
7	8.0	7.8	7.9	7.5	7.4	7.4	7.8	7.6	7.6	7.9	7.5	7.7
8	8.0	7.7	7.8	7.8	7.4	7.7	7.9	7.5	7.7	7.8	7.7	7.7
9	8.0	7.6	7.8	7.9	7.6	7.7	8.2	7.6	7.8	7.8	7.7	7.8
10	7.9	7.7	7.8	8.1	7.6	7.8	8.3	7.7	7.9	7.9	7.7	7.7
11	7.9	7.7	7.8	8.1	7.6	7.8	8.4	7.6	7.9	8.0	7.9	7.9
12	7.9	7.1	7.4	8.2	7.7	7.9	8.6	7.9	8.1	8.4	7.9	8.0
13	7.3	7.2	7.3	8.4	7.7	8.0	8.5	7.9	8.2	8.3	7.7	7.9
14	7.4	7.3	7.3	8.3	7.8	7.9	8.4	7.9	8.1	8.0	7.7	7.8
15	7.6	7.4	7.5	8.3	7.7	8.0	8.4	8.0	8.1	8.0	7.8	7.9
16	7.8	7.5	7.7	8.4	7.8	8.0	8.1	7.9	8.0	7.9	7.6	7.9
17	7.9	7.8	7.9	7.9	7.7	7.9	8.2	7.9	8.0	---	---	---
18	8.0	7.9	7.9	7.8	7.7	7.7	8.3	7.8	8.0	---	---	---
19	8.1	7.8	8.0	7.7	7.6	7.7	8.4	7.8	8.0	---	---	---
20	8.0	7.6	7.9	7.9	7.5	7.7	8.4	7.9	8.1	---	---	---
21	7.9	7.6	7.7	7.7	7.6	7.7	8.6	7.9	8.2	---	---	---
22	8.1	7.6	7.9	7.7	7.6	7.6	8.6	8.2	8.4	7.9	7.7	7.9
23	8.2	7.7	7.9	8.0	7.6	7.7	8.6	8.2	8.3	7.9	7.7	7.7
24	8.2	7.8	8.0	8.5	7.8	8.1	8.2	7.9	8.0	7.7	7.4	7.5
25	8.3	7.8	8.0	8.4	7.9	8.1	8.1	7.8	7.9	7.5	7.4	7.5
26	8.0	7.6	7.8	8.5	7.8	8.1	8.2	7.6	8.0	7.6	7.5	7.5
27	7.9	7.5	7.8	8.2	7.9	8.0	8.1	7.7	7.9	7.5	7.4	7.5
28	7.7	7.4	7.5	7.9	7.6	7.8	8.1	7.8	7.9	7.5	7.5	7.5
29	8.0	7.5	7.7	7.6	7.4	7.5	8.1	7.8	7.9	7.5	7.5	7.5
30	7.9	7.2	7.7	7.6	7.5	7.6	8.1	7.8	8.0	7.6	7.5	7.6
31	---	---	---	7.6	7.5	7.6	8.0	7.6	7.8	---	---	---
MAX	8.3	7.9	8.1	8.5	7.9	8.1	8.6	8.2	8.4	8.4	7.9	8.0
MIN	7.3	7.1	7.3	7.2	7.0	7.1	7.7	7.5	7.6	7.5	7.4	7.5
YEAR	MAX	MAXIMUM 8.7 MINIMUM 7.2		MIN	MAXIMUM 8.2 MINIMUM 7.0		MEDIAN	MAXIMUM 8.4 MINIMUM 7.1				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	19.6	13.5	16.6	13.8	11.9	12.8	7.0	6.4	6.7	---	---	---
2	17.9	15.2	16.9	15.0	13.0	13.9	6.6	6.1	6.4	---	---	---
3	17.4	12.2	14.9	13.2	11.7	12.5	6.1	5.3	5.7	---	---	---
4	17.2	12.9	14.7	12.8	11.6	12.1	5.3	4.7	5.0	---	---	---
5	16.1	11.0	13.6	11.6	10.4	11.0	5.8	4.7	5.2	---	---	---
6	16.5	10.7	13.9	10.5	9.7	10.1	7.0	5.8	6.4	---	---	---
7	16.5	11.3	13.9	10.8	9.6	10.2	9.3	7.0	8.3	---	---	---
8	17.4	11.9	14.7	10.4	8.7	9.5	---	---	---	---	---	---
9	18.2	14.7	16.1	8.7	7.6	8.2	---	---	---	---	---	---
10	17.3	12.1	14.7	8.7	6.8	7.7	---	---	---	---	---	---
11	16.3	11.7	14.2	8.1	7.4	7.8	---	---	---	---	---	---
12	16.6	11.2	13.9	9.6	6.7	7.7	---	---	---	---	---	---
13	14.4	13.0	13.5	8.6	5.7	6.7	---	---	---	---	---	---
14	15.1	13.0	14.1	8.4	5.0	6.2	---	---	---	---	---	---
15	14.2	12.1	13.2	6.9	4.8	5.8	---	---	---	---	---	---
16	12.1	10.1	11.3	7.6	5.6	6.6	---	---	---	---	---	---
17	12.5	8.6	10.2	8.0	7.0	7.5	---	---	---	---	---	---
18	9.8	8.3	8.8	9.7	8.0	8.9	---	---	---	---	---	---
19	11.0	9.2	10	10.7	9.3	10.0	---	---	---	---	---	---
20	12.7	10.5	11.4	11.8	10.5	11.2	---	---	---	---	---	---
21	12.3	11.3	11.7	12.1	11.4	11.8	---	---	---	---	---	---
22	14.4	10.0	11.8	11.4	10.5	10.9	---	---	---	---	---	---
23	13.2	10.9	12.1	10.6	10.2	10.4	---	---	---	---	---	---
24	16.1	12.4	13.8	10.5	9.8	10.3	---	---	---	---	---	---
25	16.3	11.7	13.4	9.8	7.7	8.8	---	---	---	---	---	---
26	15.5	11.4	13.2	7.7	5.3	6.5	---	---	---	---	---	---
27	16.7	13.2	14.4	5.9	5.1	5.4	---	---	---	---	---	---
28	17.0	13.1	14.5	6.4	5.9	6.2	---	---	---	---	---	---
29	16.6	13.9	15.1	6.3	6.0	6.2	---	---	---	---	---	---
30	18.8	14.9	16.5	6.6	6.3	6.4	---	---	---	---	---	---
31	16.3	12.8	14.4	---	---	---	---	---	---	---	---	---
MONTH	19.6	8.3	13.6	15.0	4.8	9.0	9.3	4.7	6.2	---	---	---

03219500 Scioto River near Prospect, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	15.2	6.8	10.2	7.3	3.7	5.0	11.8	11.4	11.6	---	---	---
2	12.2	6.3	8.7	5.4	3.4	4.2	11.5	11.3	11.4	---	---	---
3	14.2	6.8	9.8	5.3	3.6	4.1	11.7	11.3	11.5	---	---	---
4	14.3	6.8	10	5.6	3.8	4.4	12.1	11.6	11.9	---	---	---
5	15.1	7.5	10.5	7.1	5.6	6.7	12.4	12.1	12.3	---	---	---
6	14.1	7.1	10.1	7.9	7.1	7.7	12.4	12.0	12.2	---	---	---
7	15.1	6.9	10.6	8.1	7.9	8.0	12.2	10.9	11.4	---	---	---
8	15.6	6.7	11.0	8.4	8.1	8.3	11.6	10.9	11.2	---	---	---
9	15.5	6.2	10.5	9.0	8.4	8.7	---	---	---	---	---	---
10	15.8	6.9	11.0	9.8	8.7	9.2	---	---	---	---	---	---
11	17.1	7.6	12.1	9.6	9.0	9.3	---	---	---	---	---	---
12	18.9	8.2	13.1	10.6	9.3	9.7	---	---	---	---	---	---
13	15.4	7.6	11.1	11.0	9.5	10.1	---	---	---	---	---	---
14	15.6	7.3	11.1	11.2	9.5	10.2	---	---	---	---	---	---
15	13.1	6.9	9.5	11.7	9.7	10.4	---	---	---	---	---	---
16	11.7	6.5	8.7	12.1	9.7	10.6	---	---	---	---	---	---
17	14.3	7.2	9.7	10.8	9.4	9.9	---	---	---	---	---	---
18	10.0	6.7	8.2	11.1	8.9	9.8	---	---	---	---	---	---
19	10.9	7.0	8.5	10.2	8.2	9.0	---	---	---	---	---	---
20	10.7	6.5	8.0	8.6	8.2	8.3	---	---	---	---	---	---
21	8.6	6.1	7.0	8.6	8.4	8.5	---	---	---	---	---	---
22	9.8	5.8	7.2	9.1	8.5	8.9	---	---	---	---	---	---
23	7.6	5.3	6.2	9.3	9.1	9.2	---	---	---	---	---	---
24	8.7	4.8	6.1	9.7	9.3	9.4	---	---	---	---	---	---
25	9.5	4.9	6.3	9.8	9.0	9.5	---	---	---	---	---	---
26	9.5	4.5	6.1	10.7	9.7	10.2	---	---	---	---	---	---
27	8.3	4.0	5.3	11.1	10.9	11.0	---	---	---	---	---	---
28	8.5	3.7	5.1	11.0	10.7	10.8	---	---	---	---	---	---
29	5.3	3.2	3.9	11.4	10.8	11.0	---	---	---	---	---	---
30	7.3	3.0	4.6	11.7	11.4	11.6	---	---	---	---	---	---
31	9.1	4.0	5.6	---	---	---	---	---	---	---	---	---
MONTH	18.9	3.0	8.6	12.1	3.4	8.8	12.4	10.9	11.7	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	---	---	---	---	---	---	11.1	10.1	10.2	11.5	9.7	10.5
2	---	---	---	---	---	---	11.6	10.3	11.1	11.5	10.3	10.7
3	---	---	---	---	---	---	11.3	10.8	11.1	11.6	10.8	11.0
4	---	---	---	---	---	---	11.3	10.5	10.9	12.5	11.4	12.0
5	---	---	---	---	---	---	10.5	9.9	10.2	12.2	11.1	11.8
6	---	---	---	---	---	---	10.0	9.7	9.8	11.5	10.2	11.0
7	---	---	---	---	---	---	9.7	9.4	9.5	11.4	9.2	10.7
8	---	---	---	---	---	---	10.1	9.4	9.7	---	---	---
9	---	---	---	---	---	---	10.7	10.0	10.4	---	---	---
10	---	---	---	---	---	---	10.6	9.8	10.2	---	---	---
11	---	---	---	---	---	---	10.7	9.8	10.2	---	---	---
12	---	---	---	---	---	---	10.8	9.7	10.2	---	---	---
13	---	---	---	---	---	---	11.1	9.8	10.3	9.4	8.0	8.6
14	---	---	---	---	---	---	11.3	10.0	10.4	8.6	7.7	8.1
15	---	---	---	---	---	---	11.8	10.1	10.7	9.0	7.9	8.4
16	---	---	---	---	---	---	12.1	10.2	10.9	8.8	7.8	8.3
17	---	---	---	---	---	---	12.1	10.1	10.9	9.4	8.5	8.9
18	---	---	---	---	---	---	12.1	9.8	10.8	9.0	8.2	8.6
19	---	---	---	---	---	---	12.6	9.8	10.9	8.3	8.0	8.2
20	---	---	---	---	---	---	11.7	9.3	10.4	8.6	7.9	8.1
21	---	---	---	---	---	---	12.5	9.3	11.0	8.3	7.8	8.1
22	---	---	---	---	---	---	10.9	9.9	10.3	8.5	7.9	8.2
23	---	---	---	---	---	---	11.7	9.8	10.3	8.2	7.5	7.9
24	---	---	---	---	---	---	11.5	10.0	10.7	8.5	7.8	8.2
25	---	---	---	---	---	---	11.9	11.5	11.8	9.0	8.3	8.6
26	---	---	---	---	---	---	11.7	9.7	10.9	8.7	8.3	8.4
27	---	---	---	---	---	---	10.5	9.7	10.1	9.0	8.2	8.6
28	---	---	---	---	---	---	10.5	10.2	10.3	8.8	8.1	8.4
29	---	---	---	---	---	---	10.2	9.7	10	8.9	8.1	8.5
30	---	---	---	---	---	---	10.0	9.6	9.8	9.0	7.8	8.3
31	---	---	---	10.4	10.1	10.2	---	---	---	9.2	7.7	8.3
MONTH	---	---	---	10.4	10.1	10.2	12.6	9.3	10.5	12.5	7.5	9.1

03220000 Mill Creek near Bellepoint, Ohio

LOCATION.—Latitude 40°14'54", longitude 83°10'26", Delaware County, Hydrologic Unit 05060001, on left bank at downstream side of county road bridge, 1.2 mi west of Bellepoint, Ohio, 1.5 mi upstream from mouth, and 2.3 mi downstream from Blues Creek.

DRAINAGE AREA.—178 mi².

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, National Geodetic Vertical Datum of 1912 (levels by students of The Ohio State University, City of Columbus bench mark). Prior to Jan. 1, 1948, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—A stage of 18 ft occurred in Mar. 1913.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	29	250	e1200	71	257	e270	175	31	71	e6.8	e700
2	14	27	354	867	71	200	724	121	28	45	e6.2	142
3	11	34	160	1060	69	134	2740	92	25	27	e5.6	60
4	8.5	46	95	1820	69	118	761	77	26	21	e5.1	35
5	6.6	42	68	2620	69	134	264	68	27	17	e4.7	23
6	6.4	42	56	4820	69	368	162	61	30	e13	e4.4	16
7	6.7	44	62	1850	173	512	122	58	30	e11	e11	11
8	6.8	30	117	481	1700	337	108	56	66	e9.0	e14	11
9	6.2	22	138	387	1730	173	87	48	107	e8.3	e12	8.2
10	7.2	18	131	94	907	116	76	45	40	e7.7	e10	7.6
11	6.8	18	139	441	372	96	65	43	30	e7.4	e8.2	8.0
12	5.8	21	136	3350	202	96	59	40	97	e7.0	e6.8	5.5
13	6.1	30	107	2970	175	91	57	38	55	e7.4	e5.7	5.0
14	8.8	25	77	1420	228	82	53	89	37	e8.2	e4.8	4.6
15	11	18	59	e850	396	71	48	98	31	e12	e5.2	4.9
16	17	16	52	e460	359	64	44	92	27	e15	e7.0	16
17	20	18	44	e280	566	61	40	66	21	e20	e9.5	186
18	16	48	42	e190	266	60	35	50	21	e18	e12	113
19	35	61	41	135	154	61	34	46	19	e16	e14	48
20	37	76	55	e110	126	80	36	321	16	e15	e9.0	28
21	22	66	e35	e105	298	82	51	255	14	e13	e10	21
22	16	52	e32	e100	367	72	68	107	13	e12	e7.0	15
23	17	42	e29	e96	194	61	1230	72	12	e11	e5.5	873
24	27	45	e26	e92	136	e300	2470	61	12	e9.5	e4.5	863
25	42	172	e25	e88	112	e270	1680	52	12	e8.5	e4.0	606
26	25	278	e23	e86	98	e590	753	45	12	e7.5	e3.6	956
27	17	115	e22	e82	88	e500	1330	40	9.2	e7.4	e5.0	1350
28	14	95	e21	e78	93	e1000	572	40	8.0	e12	e9.0	296
29	15	84	e21	e76	---	e3200	238	51	12	e10	e30	127
30	19	82	e22	74	---	e500	237	41	130	e9.2	e100	122
31	35	---	e60	71	---	e300	---	35	---	e7.8	e400	---
TOTAL	508.9	1696	2499	26353	9158	9986	14414	2483	998.2	463.9	740.6	6661.8
MEAN	16.4	56.5	80.6	850	327	322	480	80.1	33.3	15.0	23.9	222
MAX	42	278	354	4820	1730	3200	2740	321	130	71	400	1350
MIN	5.8	16	21	71	69	60	34	35	8.0	7.0	3.6	4.6
CFSM	0.09	0.32	0.45	4.78	1.84	1.81	2.70	0.45	0.19	0.08	0.13	1.25
IN.	0.11	0.35	0.52	5.51	1.91	2.09	3.01	0.52	0.21	0.10	0.15	1.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944-2005 BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1944	30.6	449	1987	0.90	1954	175	1130	1991	2.17	1964	261	1227	1950	3.82	1977
1945	99.3	553	1973	1.99	1964	280	768	1975	8.09	1964	327	963	1978	36.1	1983
1946	80.1	769	1992	1.33	1944	297	874	1972	29.6	1971	297	746	1996	10.5	1955
1947	39.2	332	1979	1.75	1965	153	734	1997	5.19	1988	188	734	1997	1988	1988
1948	34.8	416	2003	1.00	1944	39.2	416	2003	1.00	1944	153	734	1997	1988	1988

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1944-2005
ANNUAL TOTAL	75420.7	75962.4	
ANNUAL MEAN	206	208	163
HIGHEST ANNUAL MEAN			283
LOWEST ANNUAL MEAN			51.4
HIGHEST DAILY MEAN	5040 Jan 5	4820 Jan 6	12600 Jan 22
LOWEST DAILY MEAN	4.6 Aug 18	3.6 Aug 26	0.00 Sep 25
ANNUAL SEVEN-DAY MINIMUM	5.6 Aug 12	5.5 Aug 22	0.13 Sep 21
MAXIMUM PEAK FLOW		5440 Jan 6a	21800 Jun 2
MAXIMUM PEAK STAGE		8.96 Jan 6	14.45 Jun 2
INSTANTANEOUS LOW FLOW			0.00 Sep 25
ANNUAL RUNOFF (CFSM)	1.16	1.17	0.92
ANNUAL RUNOFF (INCHES)	15.76	15.88	12.45
10 PERCENT EXCEEDS	403	489	367
50 PERCENT EXCEEDS	52	50	30
90 PERCENT EXCEEDS	10	7.7	4.2

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03220510 Scioto River at O'Shaughnessy Dam, Ohio

LOCATION.—Latitude 40°09'14", longitude 83°07'33", Delaware County, Hydrologic Unit 05060001, 200 ft downstream from dam.

DRAINAGE AREA.—979 mi².

Water-Quality Records

PERIOD OF RECORD.—June 1998 to current year.

PERIOD OF DAILY RECORD—

SPECIFIC CONDUCTANCE: June 1998 to current year.

pH: June 1998 to current year.

WATER TEMPERATURE: June 1998 to current year.

DISSOLVED OXYGEN: June 1998 to current year.

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunction of the equipment. Specific conductance records are good. pH records are good except Oct. 15-Nov. 12, May 10-June 3, and Aug. 8-18, which are fair. Water temperature records are good. Dissolved oxygen records are fair except Oct. 1-15, Oct. 25-Nov. 12, Dec. 28-Feb. 3, May 10-June 21, July 20-Aug. 30, and Sept. 16-30, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 1,400 microsiemens, Dec. 21, 1998; minimum, 144 microsiemens, May 24, 2004.

pH: Maximum, 9.1 units, Apr. 8, 2001; minimum, 5.8 units Mar. 28, 2002

WATER TEMPERATURE: Maximum, 30.5°C, July 30, 1999; minimum, 0.3°C, Jan. 9, 2004.

DISSOLVED OXYGEN: Maximum, 17.5 mg/L, May 12, 2001; minimum, 0.2 mg/L, Aug. 13,14, 1999, Aug. 25 and 26, 2000.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 866 microsiemens, Aug. 30; minimum, 172 microsiemens, Jan. 13.

pH: Maximum, 8.8 units, May 17; minimum, 7.1 units, Oct. 13, Aug. 4-5, 14-15, and 20, and Sept. 12-15.

WATER TEMPERATURE: Maximum, 29.3°C, July 23; minimum, 0.4°C, Jan. 21-24.

DISSOLVED OXYGEN: Maximum, 17.1 mg/L, Jan. 1; minimum, 1.0 mg/L, Oct. 2.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	665	649	654	744	737	741	734	605	670	802	386	584
2	675	643	662	788	739	755	618	580	598	386	275	316
3	673	666	669	810	751	758	660	618	641	288	266	274
4	670	666	669	763	747	758	711	660	686	287	277	280
5	670	666	668	764	756	760	701	657	668	378	280	311
6	669	664	667	778	742	754	676	654	664	288	174	194
7	676	668	672	799	774	787	693	650	663	208	175	192
8	682	672	677	801	772	780	671	655	658	225	207	216
9	682	657	666	791	781	785	692	619	650	240	225	234
10	706	665	680	819	790	804	682	637	664	274	239	253
11	683	673	679	811	789	798	678	655	664	339	274	301
12	684	676	680	811	795	805	698	650	671	351	175	267
13	742	661	677	808	804	806	708	695	701	185	172	178
14	684	678	681	806	801	803	765	703	721	192	183	187
15	699	680	687	803	776	792	751	725	738	201	185	191
16	709	690	699	789	781	787	756	748	752	232	201	217
17	697	684	691	789	772	781	753	748	750	252	232	241
18	703	681	689	827	779	787	750	746	749	288	252	268
19	695	686	692	827	790	807	760	733	746	333	288	310
20	695	687	690	811	799	805	756	742	748	404	333	364
21	691	684	688	814	793	807	751	738	744	481	404	450
22	689	683	687	805	780	794	748	742	745	516	481	499
23	746	688	706	817	800	805	754	739	747	536	516	524
24	734	699	711	841	804	817	752	744	748	533	518	526
25	703	692	699	862	804	824	757	751	754	558	521	541
26	706	699	703	805	801	803	760	753	757	574	557	564
27	708	698	703	804	746	781	764	758	761	590	574	586
28	705	694	700	770	738	751	774	763	767	643	566	587
29	740	699	713	753	617	666	784	767	774	614	572	597
30	798	739	768	726	618	653	795	784	789	634	613	625
31	780	741	750	---	---	---	818	780	797	649	620	636
MONTH	798	643	690	862	617	778	818	580	716	802	172	371

03220510 Scioto River at O'Shaughnessy Dam, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	7.5	7.2	7.3	7.6	7.4	7.5	7.5	7.5	7.5	8.1	7.8	7.9
2	7.3	7.2	7.2	7.5	7.3	7.5	7.6	7.5	7.5	7.8	7.8	7.8
3	7.2	7.2	7.2	7.5	7.3	7.4	7.6	7.6	7.6	7.8	7.8	7.8
4	7.3	7.2	7.2	7.4	7.4	7.4	7.6	7.6	7.6	7.8	7.8	7.8
5	7.4	7.3	7.3	7.5	7.4	7.4	7.6	7.5	7.5	7.8	7.8	7.8
6	7.4	7.3	7.3	7.6	7.5	7.5	7.5	7.4	7.5	7.8	7.8	7.8
7	7.4	7.3	7.3	7.6	7.5	7.6	7.5	7.4	7.5	7.8	7.8	7.8
8	7.4	7.3	7.3	7.6	7.5	7.6	7.5	7.4	7.4	7.8	7.8	7.8
9	7.6	7.3	7.4	7.6	7.5	7.6	7.6	7.4	7.5	7.8	7.8	7.8
10	7.5	7.3	7.4	7.7	7.6	7.7	7.6	7.5	7.5	7.8	7.8	7.8
11	7.5	7.3	7.4	7.7	7.6	7.7	7.5	7.4	7.5	7.8	7.8	7.8
12	7.6	7.3	7.4	7.7	7.5	7.6	7.6	7.5	7.6	7.8	7.8	7.8
13	7.5	7.1	7.4	7.7	7.6	7.7	7.6	7.6	7.6	7.8	7.8	7.8
14	7.4	7.3	7.3	7.7	7.6	7.7	7.8	7.5	7.6	7.8	7.8	7.8
15	7.6	7.3	7.4	7.8	7.6	7.7	7.7	7.6	7.7	7.8	7.8	7.8
16	7.5	7.4	7.4	7.8	7.6	7.7	7.7	7.7	7.7	7.9	7.8	7.8
17	7.5	7.4	7.4	7.6	7.6	7.6	7.7	7.7	7.7	7.9	7.9	7.9
18	7.4	7.3	7.4	7.6	7.5	7.6	7.7	7.7	7.7	7.9	7.9	7.9
19	7.4	7.3	7.4	7.7	7.5	7.6	7.8	7.7	7.7	8.0	7.9	7.9
20	7.4	7.3	7.4	7.6	7.5	7.5	7.8	7.7	7.8	8.0	7.8	7.8
21	7.5	7.4	7.4	7.7	7.5	7.6	7.8	7.7	7.8	7.8	7.8	7.8
22	7.5	7.4	7.4	7.8	7.6	7.7	7.8	7.7	7.8	7.8	7.8	7.8
23	7.5	7.3	7.4	7.6	7.6	7.6	7.8	7.7	7.8	7.8	7.8	7.8
24	7.5	7.3	7.4	7.6	7.6	7.6	7.8	7.7	7.8	7.9	7.8	7.8
25	7.5	7.3	7.4	7.8	7.5	7.7	7.8	7.7	7.8	7.9	7.7	7.8
26	7.4	7.3	7.3	7.8	7.8	7.8	7.8	7.7	7.8	7.8	7.8	7.8
27	7.4	7.3	7.3	7.9	7.8	7.9	7.8	7.8	7.8	7.9	7.8	7.8
28	7.6	7.4	7.5	7.9	7.7	7.8	7.8	7.7	7.8	7.9	7.5	7.8
29	7.5	7.3	7.4	7.7	7.5	7.6	7.8	7.7	7.8	7.9	7.8	7.9
30	7.4	7.3	7.3	7.5	7.5	7.5	7.7	7.7	7.7	7.9	7.9	7.9
31	7.5	7.3	7.4	---	---	---	8.2	7.7	8.1	7.9	7.9	7.9
MAX	7.6	7.4	7.5	7.9	7.8	7.9	8.2	7.8	8.1	8.1	7.9	7.9
MIN	7.2	7.1	7.2	7.4	7.3	7.4	7.5	7.4	7.4	7.8	7.5	7.8

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	7.9	7.9	7.9	8.0	8.0	8.0	7.8	7.7	7.7	---	---	---
2	7.9	7.6	7.9	8.0	8.0	8.0	8.0	7.8	7.8	---	---	---
3	7.9	7.8	7.9	8.1	8.0	8.0	8.1	8.0	8.1	---	---	---
4	7.9	7.9	7.9	8.1	8.0	8.1	8.0	7.9	7.9	---	---	---
5	8.2	7.7	7.9	8.1	8.0	8.1	7.9	7.8	7.8	---	---	---
6	7.8	7.7	7.8	8.1	8.0	8.1	7.8	7.7	7.8	---	---	---
7	8.0	7.8	8.0	8.2	8.1	8.1	7.8	7.7	7.7	---	---	---
8	8.2	8.0	8.1	8.2	8.2	8.2	7.8	7.7	7.7	---	---	---
9	8.2	8.0	8.1	8.2	8.2	8.2	7.8	7.7	7.7	---	---	---
10	8.0	8.0	8.0	8.2	8.1	8.2	7.9	7.7	7.8	8.2	7.9	8.0
11	8.0	8.0	8.0	8.1	8.1	8.1	8.0	7.7	7.9	8.7	7.9	8.5
12	8.0	8.0	8.0	8.2	8.1	8.2	8.4	7.9	7.9	8.4	8.2	8.3
13	8.0	7.9	8.0	8.2	8.1	8.2	8.2	7.9	8.2	8.2	7.8	8.0
14	7.9	7.9	7.9	8.2	8.1	8.1	8.2	8.1	8.1	8.2	7.9	8.0
15	8.1	7.9	8.0	8.2	8.1	8.2	8.1	7.9	8.0	8.6	8.2	8.4
16	8.1	8.0	8.1	---	---	---	8.1	7.5	7.6	8.7	8.5	8.6
17	8.2	8.1	8.2	---	---	---	8.0	7.6	7.8	8.8	8.4	8.6
18	8.2	8.1	8.2	---	---	---	8.2	7.9	8.0	8.6	8.3	8.4
19	8.1	8.0	8.1	---	---	---	8.0	7.7	7.9	8.4	8.0	8.2
20	8.0	8.0	8.0	---	---	---	8.0	7.7	7.8	8.4	8.0	8.3
21	8.0	8.0	8.0	---	---	---	8.6	8.0	8.3	8.5	8.2	8.2
22	8.1	8.0	8.0	8.3	8.2	8.3	8.2	7.9	8.1	8.3	8.0	8.3
23	8.1	8.1	8.1	8.3	8.2	8.2	8.3	8.1	8.2	8.1	7.9	8.0
24	8.1	8.1	8.1	8.2	8.2	8.2	8.1	8.0	8.0	8.1	8.0	8.0
25	8.1	8.1	8.1	8.4	8.2	8.3	8.0	7.7	7.8	8.1	8.0	8.1
26	8.2	8.1	8.1	8.4	8.3	8.3	7.7	7.7	7.7	8.3	7.9	8.1
27	8.2	7.7	8.2	8.4	8.3	8.4	---	---	---	8.6	8.2	8.3
28	8.1	8.0	8.1	8.3	8.2	8.3	---	---	---	8.2	7.7	7.9
29	---	---	---	8.3	8.0	8.2	---	---	---	8.4	7.8	8.0
30	---	---	---	8.0	7.8	7.9	---	---	---	8.0	7.8	7.9
31	---	---	---	7.8	7.7	7.8	---	---	---	7.8	7.7	7.8
MAX	8.2	8.1	8.2	8.4	8.3	8.4	8.6	8.1	8.3	8.8	8.5	8.6
MIN	7.8	7.6	7.8	7.8	7.7	7.8	7.7	7.5	7.6	7.8	7.7	7.8

03220510 Scioto River at O’Shaughnessy Dam, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.2	7.7	7.9	8.2	7.7	7.9	7.4	7.3	7.4	8.0	7.8	7.8
2	8.2	7.7	8.0	8.2	7.9	8.0	7.4	7.2	7.3	8.2	7.8	7.8
3	8.0	7.9	8.0	8.0	7.7	7.9	7.3	7.2	7.2	8.2	7.9	8.0
4	8.4	7.9	8.2	7.7	7.5	7.6	7.2	7.1	7.2	8.1	7.7	7.9
5	8.2	7.2	8.1	7.9	7.6	7.6	7.2	7.1	7.2	8.0	7.4	7.8
6	8.2	7.8	8.0	8.6	7.7	8.0	7.3	7.2	7.3	7.5	7.2	7.4
7	8.2	7.8	8.0	8.7	8.0	8.3	7.5	7.3	7.4	7.4	7.2	7.2
8	8.1	7.5	7.8	8.3	7.8	8.1	7.4	7.3	7.4	7.5	7.2	7.4
9	7.9	7.5	7.6	7.9	7.5	7.7	7.4	7.3	7.3	7.8	7.1	7.3
10	7.9	7.5	7.8	7.5	7.4	7.5	7.4	7.3	7.3	7.8	7.3	7.6
11	7.8	7.6	7.8	7.5	7.4	7.4	7.4	7.3	7.4	7.4	7.2	7.2
12	7.9	7.4	7.7	7.4	7.3	7.4	7.3	7.3	7.3	7.3	7.1	7.2
13	7.9	7.7	7.8	7.4	7.3	7.3	7.3	7.2	7.2	7.2	7.1	7.1
14	7.8	7.8	7.8	7.3	7.3	7.3	7.3	7.1	7.1	7.2	7.1	7.1
15	8.0	7.8	7.9	7.3	7.3	7.3	7.2	7.1	7.2	7.6	7.1	7.3
16	8.0	7.6	7.8	7.3	7.2	7.3	7.3	7.2	7.3	7.8	7.3	7.5
17	8.4	7.9	8.2	7.4	7.2	7.3	7.3	7.3	7.3	7.8	7.4	7.5
18	8.5	8.0	8.2	7.4	7.2	7.4	7.4	7.2	7.3	8.0	7.8	7.9
19	8.6	8.1	8.3	7.7	7.3	7.4	7.3	7.2	7.2	7.8	7.5	7.6
20	8.6	7.8	8.2	7.6	7.3	7.4	7.3	7.1	7.2	7.6	7.4	7.5
21	8.2	7.7	7.8	7.7	7.3	7.4	7.5	7.2	7.3	7.7	7.4	7.4
22	8.0	7.6	7.7	7.5	7.3	7.4	7.6	7.3	7.4	7.5	7.4	7.4
23	7.8	7.5	7.6	7.5	7.3	7.4	7.4	7.3	7.4	7.7	7.2	7.6
24	7.6	7.4	7.5	7.4	7.2	7.3	7.5	7.2	7.3	7.8	7.6	7.7
25	7.7	7.4	7.5	7.6	7.2	7.3	7.4	7.3	7.3	7.6	7.4	7.5
26	7.7	7.5	7.6	7.3	7.2	7.2	7.4	7.2	7.3	7.7	7.5	7.5
27	7.6	7.4	7.5	7.2	7.2	7.2	7.3	7.2	7.2	7.6	7.5	7.6
28	7.6	7.4	7.5	7.3	7.2	7.2	7.4	7.3	7.3	7.5	7.4	7.5
29	8.0	7.5	7.6	7.4	7.2	7.3	7.3	7.2	7.3	7.5	7.4	7.4
30	8.2	7.8	8.2	7.4	7.2	7.3	7.3	7.2	7.3	7.5	7.4	7.4
31	---	---	---	7.6	7.3	7.4	7.8	7.2	7.7	---	---	---
MAX	8.6	8.1	8.3	8.7	8.0	8.3	7.8	7.3	7.7	8.2	7.9	8.0
MIN	7.6	7.2	7.5	7.2	7.2	7.2	7.2	7.1	7.1	7.2	7.1	7.1
YEAR	MAX	MAXIMUM 8.8 MINIMUM 7.2		MIN	MAXIMUM 8.5 MINIMUM 7.1		MEDIAN	MAXIMUM 8.6 MINIMUM 7.1				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	20.4	18.4	19.4	14.6	13.6	14.1	7.9	6.7	7.4	2.0	0.5	0.9
2	19.7	18.8	19.2	14.5	14.0	14.3	6.7	6.4	6.5	2.4	0.8	1.6
3	19.5	18.6	19.0	14.1	13.3	13.9	6.4	6.2	6.3	6.1	2.4	4.1
4	19.3	18.5	18.8	14.0	13.5	13.7	6.4	6.0	6.2	7.3	6.1	7.0
5	19.0	18.1	18.5	13.6	13.1	13.3	6.3	5.8	6.1	7.0	4.9	6.4
6	18.6	17.7	18.1	13.3	12.7	13.0	6.5	6.1	6.3	4.9	2.9	3.6
7	18.2	17.3	17.7	13.2	12.5	12.9	6.9	6.4	6.7	2.9	2.2	2.5
8	18.0	17.2	17.5	12.8	12.0	12.4	6.9	6.6	6.7	2.2	2.1	2.2
9	18.4	17.3	17.8	12.1	11.5	11.9	7.0	6.2	6.6	2.3	2.2	2.2
10	18.2	17.0	17.6	11.9	11.3	11.5	7.0	6.5	6.8	2.6	2.3	2.4
11	18.2	16.9	17.5	11.4	10.9	11.2	6.7	6.4	6.6	3.4	2.6	2.9
12	17.8	16.7	17.2	11.2	10.5	10.9	6.7	6.2	6.5	7.0	3.4	5.0
13	17.2	16.0	16.9	10.8	10.1	10.4	6.7	6.0	6.4	8.6	7.0	8.0
14	17.6	16.6	16.9	10.7	9.8	10.1	6.2	5.6	5.9	8.8	6.7	8.0
15	16.7	15.8	16.2	10.3	9.4	9.8	5.7	5.4	5.5	6.7	4.7	5.7
16	15.9	15.1	15.6	9.9	9.5	9.6	5.4	5.0	5.2	4.7	2.9	3.9
17	16.1	14.2	15.1	9.7	9.0	9.4	5.1	4.7	4.9	2.9	1.4	2.1
18	14.6	13.6	14.0	9.9	9.1	9.7	4.9	4.5	4.7	1.4	0.8	1.0
19	14.8	14.0	14.4	10.2	9.7	10	4.8	2.8	3.8	0.8	0.6	0.7
20	15.0	14.5	14.8	9.9	9.4	9.6	3.1	2.5	2.7	0.6	0.5	0.5
21	14.9	14.4	14.6	10.5	9.9	10.2	3.7	2.7	3.2	0.6	0.4	0.4
22	15.1	14.0	14.4	10.2	10.0	10.1	3.4	2.7	3.1	0.5	0.4	0.5
23	14.2	13.6	13.8	10.0	9.8	9.9	2.9	2.6	2.7	0.5	0.4	0.5
24	15.1	13.7	14.3	10.4	10.0	10.3	2.9	2.4	2.6	0.5	0.4	0.5
25	15.1	13.9	14.3	10.1	9.1	9.5	3.0	2.6	2.8	0.7	0.5	0.6
26	14.8	13.5	14.1	9.3	9.2	9.3	3.0	2.7	2.9	0.7	0.6	0.7
27	14.6	13.9	14.2	9.2	8.3	8.9	3.0	2.7	2.8	0.7	0.6	0.6
28	15.2	14.2	14.6	8.3	8.0	8.2	3.1	2.7	2.9	1.5	0.5	0.9
29	14.6	14.1	14.4	8.0	6.9	7.2	3.4	3.0	3.1	0.9	0.7	0.8
30	15.0	13.8	14.2	7.8	6.9	7.2	3.4	3.1	3.3	0.8	0.8	0.8
31	15.0	13.7	14.2	---	---	---	3.3	2.0	2.6	0.9	0.7	0.8
MONTH	20.4	13.5	16.1	14.6	6.9	10.8	7.9	2.0	4.8	8.8	0.4	2.5

03220510 Scioto River at O'Shaughnessy Dam, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	6.2	1.1	3.0	9.7	5.9	7.0	9.8	8.5	9.2	17.1	16.2	16.8
2	3.0	1.0	1.9	6.4	5.1	5.8	10.4	9.6	9.9	16.9	16.0	16.5
3	3.6	1.7	2.3	7.2	5.9	6.6	10.6	10.4	10.5	16.0	14.2	15.1
4	3.2	1.5	2.2	6.5	5.8	6.2	10.6	10.2	10.4	14.2	13.5	13.7
5	4.3	2.2	2.8	7.1	5.8	6.6	10.3	9.8	10.1	14.6	13.6	14.0
6	4.4	2.2	2.8	6.7	5.9	6.3	10.0	9.8	9.9	15.8	14.6	15.4
7	4.9	2.2	3.0	7.3	6.2	6.9	9.9	9.7	9.8	16.3	15.8	16.0
8	5.1	2.2	3.0	8.1	7.2	7.6	10.2	9.8	9.9	16.3	15.9	16.0
9	5.8	2.2	3.7	9.2	7.6	8.2	10.4	9.6	10.0	16.1	15.7	15.9
10	6.9	3.4	4.9	8.6	7.2	7.7	10.4	9.6	9.9	15.9	15.4	15.7
11	7.6	4.2	5.4	8.4	7.2	7.7	10.0	9.4	9.8	15.5	15.0	15.1
12	8.1	3.7	5.4	9.3	7.4	8.1	10.1	9.9	10	15.2	13.6	14.4
13	5.4	2.5	3.7	9.6	8.0	8.6	10.5	10.0	10.3	13.6	12.7	13.0
14	4.7	1.6	2.6	9.9	8.1	8.7	13.6	10.1	10.9	13.4	12.8	13.0
15	5.2	1.6	2.8	9.7	8.0	8.5	11.5	11.0	11.3	14.5	13.4	14.0
16	5.3	1.5	2.9	9.6	8.0	8.5	11.6	11.2	11.4	15.4	14.5	14.9
17	5.3	2.1	3.4	8.8	8.1	8.4	11.8	11.5	11.7	16.5	15.4	15.9
18	5.3	2.6	3.7	8.8	8.1	8.6	12.0	11.6	11.7	17.0	16.5	16.8
19	5.0	3.3	3.9	9.3	8.2	8.6	13.1	11.6	12.5	16.7	16.4	16.6
20	4.9	3.4	4.0	9.1	8.0	8.5	13.7	12.8	13.1	16.8	14.4	15.5
21	5.5	3.7	4.5	10.1	8.5	9.3	13.2	12.8	12.9	14.5	14.2	14.3
22	6.4	3.9	4.8	9.8	9.1	9.6	13.1	12.7	13.0	14.2	14.0	14.1
23	5.9	3.7	4.3	9.2	8.5	8.9	13.5	12.9	13.2	14.4	14.0	14.2
24	6.3	3.6	4.8	9.7	8.0	9.0	13.5	13.1	13.2	14.5	14.4	14.5
25	6.8	4.5	5.4	10.2	7.9	9.4	13.5	13.0	13.2	14.6	14.0	14.4
26	7.5	4.4	5.4	9.7	9.2	9.6	13.6	13.0	13.2	14.4	14.3	14.3
27	7.0	4.2	5.4	10.2	9.2	9.7	13.7	13.2	13.4	14.6	14.4	14.4
28	8.7	5.5	6.9	10.3	9.7	10	13.4	12.1	12.8	14.6	13.0	14.1
29	7.1	4.0	5.8	10.2	9.7	9.9	12.5	11.9	12.1	14.6	14.1	14.4
30	6.3	2.6	3.9	9.8	8.7	9.5	12.3	11.8	12.0	14.7	14.5	14.7
31	8.3	3.8	6.3	---	---	---	16.2	11.9	14.2	14.6	14.5	14.5
MONTH	8.7	1.0	4.0	10.3	5.1	8.3	16.2	8.5	11.5	17.1	12.7	14.9

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	15.0	14.5	14.6	12.7	12.4	12.6	10.9	10.3	10.6	---	---	---
2	15.0	14.1	14.6	12.9	12.7	12.8	12.3	10.3	10.9	---	---	---
3	14.8	14.1	14.5	13.0	12.9	12.9	13.5	12.3	12.6	---	---	---
4	14.6	14.4	14.5	13.1	12.9	12.9	14.1	12.9	13.5	---	---	---
5	15.8	13.4	14.4	13.1	12.9	13.0	13.1	11.9	12.6	---	---	---
6	13.8	13.4	13.5	13.2	12.9	13.0	11.9	10.9	11.4	---	---	---
7	14.2	13.8	14.0	13.3	13.1	13.3	10.9	10.0	10.3	---	---	---
8	16.9	14.1	15.8	13.4	13.3	13.3	10.2	9.6	9.8	---	---	---
9	16.9	16.5	16.7	13.3	13.2	13.3	9.6	9.4	9.5	---	---	---
10	16.7	16.4	16.5	13.2	12.8	13.0	9.9	9.1	9.3	---	---	---
11	17.0	16.2	16.4	12.8	12.7	12.7	10.3	9.6	10	10.9	7.4	9.1
12	16.3	15.4	15.8	12.9	12.6	12.8	10.5	9.4	10	9.2	7.6	8.3
13	15.4	14.4	14.9	13.0	12.8	12.9	11.3	9.4	10.6	9.4	8.0	8.5
14	14.4	14.1	14.2	13.0	12.8	12.9	11.0	10.0	10.3	9.4	8.4	8.8
15	14.3	13.8	14.0	---	---	---	10.8	9.7	10.3	9.6	8.7	9.1
16	13.9	13.6	13.8	---	---	---	10.7	8.4	9.4	9.8	8.7	9.2
17	13.9	13.2	13.7	---	---	---	11.1	8.5	9.8	9.7	7.8	8.8
18	13.2	12.5	12.8	---	---	---	12.2	10.2	11.1	9.4	8.0	8.7
19	12.5	12.0	12.2	---	---	---	11.3	8.8	10.2	9.2	6.7	8.3
20	12.1	11.6	11.8	---	---	---	11.1	8.8	9.3	8.7	6.4	8.3
21	12.1	11.9	12.0	---	---	---	11.5	9.0	9.6	8.8	7.2	8.2
22	12.2	12.1	12.1	12.7	12.5	12.6	9.8	9.0	9.4	8.3	7.4	7.9
23	12.1	11.9	12.0	12.5	12.4	12.5	10.5	9.2	9.8	8.4	7.1	7.8
24	11.9	11.4	11.7	12.5	12.4	12.4	11.8	10.5	11.0	7.4	5.0	6.8
25	---	---	---	12.7	12.4	12.6	13.1	11.8	12.6	8.3	6.2	7.5
26	---	---	---	13.0	12.7	12.8	13.2	12.6	13.0	8.1	7.0	7.7
27	---	---	---	13.1	12.6	12.9	---	---	---	8.4	6.6	7.5
28	---	---	---	13.0	12.4	12.7	---	---	---	8.0	6.8	7.4
29	---	---	---	13.0	12.3	12.7	---	---	---	7.9	6.0	7.0
30	---	---	---	12.3	11.5	11.8	---	---	---	6.8	5.4	6.1
31	---	---	---	11.5	10.9	11.2	---	---	---	6.6	4.4	5.7
MONTH	17.0	11.4	14.0	13.4	10.9	12.7	14.1	8.4	10.7	10.9	4.4	7.9

03221000 Scioto River below O’Shaughnessy Dam near Dublin, Ohio

LOCATION.—Latitude 40°08’36”, longitude 83°07’14”, Delaware County, Hydrologic Unit 05060001, on left bank, 0.2 mi north of county line, 0.8 mi downstream from O’Shaughnessy Dam, and 3 mi north of Dublin, Ohio.

DRAINAGE AREA.—980 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi upstream at same datum; Aug. 26, 1921-Oct. 13, 1924, nonrecording gage at site 100 ft downstream at same datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Flow regulated since 1924 by O’Shaughnessy Reservoir 0.8 mi upstream. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 24.6 ft, discharge; 74,500 ft³/s at Griggs Dam, 9 mi downstream from gage, computed by C.E. Sherman, The Ohio State University.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	89	934	8630	351	694	1010	1600	192	1070	141	1540
2	48	109	1810	9980	329	809	1950	1070	169	692	118	1330
3	86	293	1840	11000	376	778	6790	819	155	414	98	789
4	85	378	1330	13000	354	609	4380	687	151	283	81	480
5	84	386	776	16500	334	700	3440	593	145	221	e77	316
6	86	708	582	25400	246	732	2110	523	154	199	e110	203
7	86	676	586	16900	470	1480	1220	482	143	180	e100	150
8	86	551	571	12100	3520	1560	762	431	152	140	e93	114
9	55	349	568	10700	6060	1280	619	407	238	114	e98	94
10	121	252	960	7950	6090	847	597	379	189	98	93	78
11	139	226	772	7470	4930	643	559	369	152	87	84	67
12	140	278	966	18300	3520	542	604	342	514	77	74	59
13	78	216	1030	17900	2190	526	414	288	654	72	68	53
14	41	213	666	15400	1690	569	419	382	414	68	63	49
15	44	126	600	11400	2100	401	329	456	291	70	64	44
16	43	72	498	8730	2210	353	191	455	217	79	69	56
17	43	77	441	6470	2850	382	287	496	171	90	71	93
18	52	576	399	4150	2320	473	296	431	150	92	72	601
19	49	256	402	2550	1720	413	263	414	129	100	73	491
20	48	194	207	1710	1120	371	279	790	112	104	e76	332
21	52	320	264	1090	1000	435	333	711	97	123	e80	206
22	53	888	333	904	1690	529	361	571	84	127	e72	147
23	59	610	246	595	1710	589	1960	524	63	119	e64	655
24	64	547	255	487	1300	797	5720	431	59	108	58	1520
25	65	684	246	604	979	907	6760	375	61	108	55	1480
26	71	2260	229	682	745	1680	5960	334	60	93	53	1900
27	74	2490	223	614	435	1980	6870	294	70	85	57	3710
28	71	2180	220	338	783	4280	5270	270	106	80	55	2640
29	80	1240	221	383	---	5060	3950	260	131	86	57	1950
30	75	815	280	437	---	2650	2770	240	504	109	83	1390
31	85	---	3400	415	---	1650	---	221	---	143	595	---
TOTAL	2205	18059	21855	232789	51422	34719	66473	15645	5727	5431	2952	22537
MEAN	71.1	602	705	7509	1836	1120	2216	505	191	175	95.2	751
MAX	140	2490	3400	25400	6090	5060	6870	1600	654	1070	595	3710
MIN	41	72	207	338	246	353	191	221	59	68	53	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921-2005 BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	190	436	846	1354	1406	1769	1545	926	735	439	240	178
MAX	2626	3426	4794	7509	4072	5231	4706	3865	3407	3599	1584	2285
(WY)	1927	1973	1991	2005	1975	1963	1957	1996	1947	1992	1995	1926
MIN	28.2	15.1	13.0	29.3	30.9	249	152	46.4	57.8	37.2	29.4	25.6
(WY)	1922	1954	1953	1992	1964	1941	1946	1925	1955	1921	1921	1965

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1921-2005
ANNUAL TOTAL	430578	479814	
ANNUAL MEAN	1176	1315	837
HIGHEST ANNUAL MEAN			1458
LOWEST ANNUAL MEAN			190
HIGHEST DAILY MEAN	13300 Jan 5	25400 Jan 6	42900 Jan 22
LOWEST DAILY MEAN	29 Jan 28	41 Oct 14	0.40 Nov 8
ANNUAL SEVEN-DAY MINIMUM	46 Oct 14	46 Oct 14	1.1 Nov 14
MAXIMUM PEAK FLOW		27300 Jan 6	55200 Jan 22
MAXIMUM PEAK STAGE		15.88 Jan 6	22.04 Jan 22
INSTANTANEOUS LOW FLOW			7.1 Dec 6
10 PERCENT EXCEEDS	3080	3070	2300
50 PERCENT EXCEEDS	498	375	216
90 PERCENT EXCEEDS	71	69	42

e Estimated.

03223425 Whetstone Creek at Mount Gilead, Ohio

LOCATION.—Latitude 40°32'56", longitude 82°49'17", Morrow County, Hydrologic Unit 05060001, on right downstream bank at State Route 95 bridge on east side of Mount Gilead, Ohio, and 0.3 mi downstream from Mount Gilead Lakes in Mount Gilead State Park.

DRAINAGE AREA.—37.9 mi².

PERIOD OF RECORD.—October 1996 to current year.

GAGE.—Water-stage recorder and crest gage. Datum of gage is 1,074.00 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.6	97	409	e12	35	34	45	5.8	105	5.6	144
2	1.7	5.7	66	150	e11	e30	130	36	5.2	31	4.5	50
3	1.6	17	40	565	e10.5	e27	474	30	4.4	11	3.8	30
4	1.7	22	29	595	e10	e31	385	25	4.1	6.7	4.0	20
5	1.6	20	23	691	e9.4	26	109	22	3.8	17	49	15
6	1.4	15	20	1140	14	47	65	19	13	19	49	11
7	1.6	9.9	24	247	57	75	51	17	13	7.5	22	8.5
8	1.4	6.9	48	327	574	e50	43	15	6.4	5.1	12	6.9
9	1.6	5.0	41	182	227	e33	35	13	4.7	3.6	7.1	5.8
10	1.5	4.3	47	106	e100	e24	29	12	3.9	2.5	5.2	5.4
11	1.4	4.3	51	200	e58	22	25	12	3.5	1.9	4.5	5.0
12	1.7	4.8	53	1190	e39	e21	21	13	3.3	1.8	4.1	4.6
13	3.5	4.6	46	373	36	e20	18	11	3.2	2.0	4.8	4.3
14	4.3	4.0	35	e630	43	e19	15	31	3.1	2.6	171	4.1
15	3.6	3.7	27	e320	64	e20	14	52	3.1	3.2	55	4.1
16	3.4	3.5	23	e160	69	e22	12	32	3.5	4.3	31	10
17	2.7	4.1	20	e94	e70	27	12	21	2.8	4.9	20	7.7
18	3.3	13	18	e72	e47	27	12	15	2.3	5.3	13	6.3
19	4.0	46	e15	e58	e35	30	11	14	2.1	137	10	4.9
20	3.9	66	e12	47	e33	66	12	30	2.0	42	8.6	3.5
21	3.4	42	e10.5	e40	67	46	21	31	2.0	24	21	2.3
22	3.2	26	e11.5	e34	54	34	20	19	1.8	67	13	2.0
23	3.6	19	e14	e29	36	33	175	18	1.6	53	7.0	27
24	4.4	21	e17.5	e25	e28	36	244	17	1.5	27	4.8	25
25	4.6	65	e15	e22	e25	39	262	13	1.8	11	3.5	15
26	3.9	47	e13	e20	e24	78	207	9.6	26	9.7	3.2	178
27	3.7	30	e12	e18	e22	54	204	8.0	4.3	89	4.1	109
28	3.5	32	e11	e16	25	237	87	9.3	3.2	59	8.5	42
29	4.3	31	e10	e15	---	129	60	11	5.6	26	9.3	51
30	5.9	26	e28	e14	---	62	54	8.6	68	14	14	40
31	7.1	---	e520	e13	---	44	---	6.8	---	8.1	596	---
TOTAL	95.1	603.4	1397.5	7802	1799.9	1444	2841	616.3	209.0	801.2	1168.6	842.4
MEAN	3.07	20.1	45.1	252	64.3	46.6	94.7	19.9	6.97	25.8	37.7	28.1
MAX	7.1	66	520	1190	574	237	474	52	68	137	596	178
MIN	1.4	3.5	10	13	9.4	19	11	6.8	1.5	1.8	3.2	2.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997-2005 BY WATER YEAR (WY)

MEAN	7.70	20.3	50.5	72.0	58.6	62.8	79.3	58.9	58.6	13.4	7.84	12.6
MAX	32.2	55.1	133	252	90.6	96.6	131	120	214	43.1	37.7	70.7
(WY)	2002	2004	1997	2005	2000	1997	2000	2004	1998	2003	2005	2003
MIN	0.84	3.95	14.4	17.8	20.5	20.4	20.4	10.5	3.43	1.18	1.01	0.13
(WY)	2003	2000	1999	2001	2003	2001	1997	1999	1999	2002	2002	1998

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997-2005	
	17841.1	48.7	19620.4	53.8	41.7	
ANNUAL TOTAL						
ANNUAL MEAN						
HIGHEST ANNUAL MEAN					56.5	2004
LOWEST ANNUAL MEAN					28.3	2001
HIGHEST DAILY MEAN	678	Jan 4	1190	Jan 12	2060	Jun 29
LOWEST DAILY MEAN	1.3	Aug 18	1.4	Oct 6	0.07	Sep 14
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 12	1.5	Oct 5	0.07	Sep 13
MAXIMUM PEAK FLOW			1730	Jan 12a	5650	Jun 27
MAXIMUM PEAK STAGE			8.60	Jan 12	13.64	Jun 27
INSTANTANEOUS LOW FLOW			1.1	Jun 24	0.07	Sep 14
10 PERCENT EXCEEDS	100		105		94	
50 PERCENT EXCEEDS	20		18		12	
90 PERCENT EXCEEDS	2.5		3.3		1.5	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03225500 Olentangy River near Delaware, Ohio

LOCATION.—Latitude 40°21'18", longitude 83°04'02", in NE ¼ T.5 N., R.19 W., Delaware County, Hydrologic Unit 05060001, on left bank 500 ft upstream from main county road bridge, 1,000 ft downstream from Delaware Dam, 1300 ft upstream from Norfolk and Western Railway bridge, and 4 mi north of Delaware, Ohio.

DRAINAGE AREA.—393 mi².

PERIOD OF RECORD.—October 1923 to September 1934, April 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 878.00 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 1950, water-stage recorder at this site 500 ft downstream at datum 1.72 ft lower; Oct. 1, 1950-Sept. 30, 1985, at datum 78.42 ft lower.

REMARKS.—Records good. Flow completely regulated by Delaware Lake since 1951. Water-quality data formerly collected at this site. Water-temperature data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 14,100 ft³/s, Mar. 21, 1927, gage height, 16.9 ft, site and datum then in use; minimum daily, 0.1 ft³/s Sept. 14-29, 1934.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	19	14	586	281	172	333	320	876	53	744	64	1280			
2	20	5.9	786	1630	125	331	372	727	24	595	47	517			
3	20	6.3	419	1480	125	243	410	365	65	195	42	230			
4	20	6.6	193	79	125	206	2080	249	68	71	42	96			
5	19	11	193	189	125	210	2890	198	68	40	43	61			
6	20	742	330	215	125	213	1430	160	69	41	42	48			
7	20	994	100	59	215	608	551	114	54	86	75	48			
8	21	540	228	66	1310	639	273	136	47	50	125	48			
9	22	157	411	1160	2720	361	114	156	52	35	125	30			
10	22	95	332	4310	3380	117	114	106	52	35	68	18			
11	21	62	307	3250	2820	78	282	99	137	35	44	18			
12	21	63	309	1990	1350	122	374	117	208	35	40	17			
13	23	63	513	4340	882	120	314	116	122	35	37	18			
14	22	63	367	4360	881	60	94	119	47	35	38	18			
15	22	63	136	4320	990	7.7	75	306	38	35	134	18			
16	17	63	138	4310	898	6.6	111	390	33	36	291	19			
17	17	82	144	4320	1320	380	111	184	33	235	202	19			
18	18	122	158	4330	720	618	111	110	33	368	67	19			
19	19	144	158	4310	320	362	111	147	33	163	43	16			
20	17	138	95	4310	320	126	111	168	21	239	43	17			
21	18	514	87	4320	325	285	111	111	14	321	43	29			
22	18	650	179	4270	994	449	104	155	15	143	31	22			
23	18	417	119	4280	922	255	144	187	9.8	47	34	22			
24	20	364	71	4190	447	254	1190	122	7.1	47	32	20			
25	20	370	33	4160	273	257	1910	122	7.1	60	27	308			
26	20	884	33	4150	208	266	3080	93	12	38	24	389			
27	19	1090	172	3920	205	1120	1590	60	95	32	24	505			
28	23	497	141	1420	286	1200	2230	100	213	125	24	784			
29	26	323	96	154	---	1590	2550	120	141	122	24	351			
30	26	340	152	154	---	1240	872	104	62	122	44	31			
31	26	---	329	305	---	455	---	78	---	107	722	---			
TOTAL	634	8883.8	7315	80632	22583	12512.3	24029	6095	1833.0	4272	2641	5016			
MEAN	20.5	296	236	2601	807	404	801	197	61.1	138	85.2	167			
MAX	26	1090	786	4360	3380	1590	3080	876	213	744	722	1280			
MIN	17	5.9	33	59	125	6.6	75	60	7.1	32	24	16			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-2005 BY WATER YEAR (WY)															
MEAN	80.4	275	443	523	644	740	572	421	321	242	113	77.3			
MAX	560	1442	1683	2601	2073	2087	1537	1618	1247	1723	1259	729			
(WY)	1987	1973	1991	2005	1959	1963	1964	1996	1981	1987	1995	2003			
MIN	10.8	6.53	7.81	20.5	18.4	117	16.3	33.1	8.19	12.6	18.2	13.9			
(WY)	1965	1992	1992	1954	1964	1983	1971	1962	1962	1988	1988	1967			
SUMMARY STATISTICS															
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1951-2005			
179187.8				490				176446.1				483			
ANNUAL MEAN				490				483				369			
HIGHEST ANNUAL MEAN				490				483				609			
LOWEST ANNUAL MEAN				137				137				1973			
HIGHEST DAILY MEAN				4210				4360				5440			
LOWEST DAILY MEAN				5.9				5.9				1.0			
ANNUAL SEVEN-DAY MINIMUM				14				12				3.4			
MAXIMUM PEAK FLOW				4480				4480				6000			
MAXIMUM PEAK STAGE				8.85				8.85				88.13			
INSTANTANEOUS LOW FLOW				1.0				1.0				1.0			
10 PERCENT EXCEEDS				1470				1290				1040			
50 PERCENT EXCEEDS				161				122				96			
90 PERCENT EXCEEDS				21				20				19			

03226800 Olentangy River near Worthington, Ohio

LOCATION.—Latitude 40°06'37", longitude 83°01'55", Franklin County, Hydrologic Unit 05060001, on left bank 350 ft downstream from Interstate Highway 270 bridge, 1.5 mi northwest of Worthington, Ohio, and 2.8 mi upstream from Rush Run.

DRAINAGE AREA.—497 mi².

PERIOD OF RECORD.—October 1955 to September 1984, October 1996 to current year.

REVISED RECORDS.—WSP 1625: 1952(M), WSP 1908. Drainage area. WDR Ohio 1972: 1971(M), WDR-OH-80-1: 1976(M), 1978(M).

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

REMARKS.—Records excellent. Flow regulated by Delaware Lake 21 mi upstream. Water-quality and sediment data formerly collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Jan. 1952, reached a stage of 15.3 ft, discharge 15,000 ft³/s, from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	42	848	1410	264	510	393	951	93	624	104	1640
2	21	54	1040	1500	176	427	1270	1050	70	927	66	748
3	22	103	671	4760	169	363	1610	446	41	261	49	323
4	25	142	262	1530	164	267	1850	379	80	146	44	127
5	25	117	239	3970	167	283	3710	246	79	95	324	82
6	24	394	356	4500	181	331	2130	244	107	87	114	65
7	24	1120	278	885	321	498	759	171	87	56	63	63
8	24	865	200	893	2140	836	506	157	70	96	99	63
9	25	236	494	640	3150	457	211	198	60	59	136	60
10	26	133	574	4950	4150	318	190	180	64	39	132	50
11	27	99	450	5510	3680	111	231	117	62	40	67	30
12	28	109	424	5910	1830	172	424	148	204	40	48	27
13	56	82	571	5830	1010	188	410	142	186	46	47	26
14	64	73	483	6260	1090	176	262	225	110	48	54	25
15	76	71	311	5200	1170	101	98	234	66	45	74	26
16	72	80	127	5040	1200	60	128	438	65	275	263	144
17	41	102	160	4980	1370	293	154	331	47	118	312	75
18	86	189	188	4960	1230	553	162	140	41	386	133	42
19	147	289	202	4920	380	456	157	239	39	337	75	35
20	72	310	185	4930	380	370	156	503	39	117	68	35
21	38	421	190	4940	460	133	211	193	33	415	66	29
22	23	726	207	4900	820	559	199	151	20	292	52	33
23	47	577	330	4880	1280	539	1420	253	16	89	41	308
24	127	477	347	4810	539	400	1770	181	17	39	38	176
25	80	573	176	4740	401	398	2880	157	35	140	38	118
26	58	806	124	4750	257	549	3280	150	21	103	34	1100
27	52	1310	106	4660	245	871	3130	101	11	66	66	347
28	49	1040	822	2570	308	2760	2030	94	193	56	56	961
29	62	331	313	221	---	2000	3740	140	224	143	270	655
30	54	501	282	200	---	1820	1230	136	354	126	416	136
31	53	---	2510	317	---	715	---	111	---	124	1450	---
TOTAL	1554	11372	13470	115566	28532	17514	34701	8206	2534	5435	4799	7549
MEAN	50.1	379	435	3728	1019	565	1157	265	84.5	175	155	252
MAX	147	1310	2510	6260	4150	2760	3740	1050	354	927	1450	1640
MIN	21	42	106	200	164	60	98	94	11	39	34	25
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956-2005, BY WATER YEAR (WY)												
MEAN	94.1	313	566	701	761	968	779	555	420	256	147	120
MAX	576	1797	1772	3728	2368	2517	2033	1432	1674	1672	801	1118
(WY)	1973	1973	1978	2005	1959	1963	1964	2004	2004	1992	1980	2003
MIN	11.9	25.7	12.1	17.7	27.2	139	40.0	62.7	15.6	26.9	31.9	17.6
(WY)	1965	1964	1964	1977	1964	1983	1971	1962	1962	2001	2001	1964
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1956-2005		
ANNUAL TOTAL				253558			251232					
ANNUAL MEAN				693			688			470		
HIGHEST ANNUAL MEAN										823		
LOWEST ANNUAL MEAN										269		
HIGHEST DAILY MEAN				4890			6260			10800		
LOWEST DAILY MEAN				21			11			6.5		
ANNUAL SEVEN-DAY MINIMUM				24			22			8.0		
MAXIMUM PEAK FLOW							8360			16500		
MAXIMUM PEAK STAGE							10.27			15.68		
INSTANTANEOUS LOW FLOW							10			5.2		
10 PERCENT EXCEEDS				2150			1910			1350		
50 PERCENT EXCEEDS				258			190			145		
90 PERCENT EXCEEDS				46			39			26		

03227500 Scioto River at Columbus, Ohio

LOCATION.—Latitude 39°54'34", longitude 83°00'33", Franklin County, Hydrologic Unit 05060001, on right bank at Jackson Pike Wastewater Treatment Plant, Columbus, Ohio, 0.4 mi downstream from bridge on Frank Road, 2.8 mi upstream from Scioto Big Run, and 5 mi downstream from Olentangy River.

DRAINAGE AREA.—1,629 mi².

PERIOD OF RECORD.—October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.—WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 680.00 ft above sea level. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.—Records good except for periods of estimated record, which are fair. Flow regulated by Griggs Reservoir (see station 03221500), O'Shaughnessy Reservoir (see station 03220500), and Delaware Lake upstream from station. Records include sewage return flow from Jackson Pike Wastewater Treatment Plant. Shadeville Treatment Plant flow enters downstream. For statement on diversions from Big Walnut Creek, see REMARKS for station 03229500.

Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 25.9 ft; discharge, 138,000 ft³/s, estimated by Franklin County Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	208	2170	9900	982	e1760	2200	3370	422	2450	325	3430
2	174	230	2590	10600	695	1660	3760	2780	390	2410	283	3110
3	171	410	2730	17200	763	1640	8960	1880	340	1100	234	1800
4	167	683	2020	17100	716	1140	6700	1450	335	643	212	985
5	152	632	1330	24600	703	1330	7530	1100	342	648	425	576
6	152	634	1050	49100	677	1340	5440	980	344	566	577	407
7	151	1780	1170	22000	803	2020	2940	859	351	380	282	350
8	149	1600	985	14700	4720	2980	2040	750	344	344	239	316
9	146	839	1250	12600	8790	2410	1320	719	386	343	301	284
10	142	517	1820	12500	10300	1820	1030	712	423	262	298	264
11	148	491	1530	13700	9190	1160	984	633	417	221	274	222
12	146	774	1470	26900	6380	990	1250	739	438	228	209	192
13	245	444	1620	26600	4030	906	1160	578	1090	294	204	182
14	235	371	1550	25200	3420	944	949	1030	768	358	286	190
15	364	357	1080	17600	3730	827	735	875	490	241	215	183
16	265	307	793	14100	3930	582	497	967	e389	634	287	588
17	194	394	717	12000	4330	575	551	1030	e342	1010	493	436
18	778	848	666	9730	4440	1010	578	777	292	481	378	412
19	962	1070	715	8020	2840	1420	628	899	266	747	288	734
20	308	901	514	7120	2190	1130	558	3480	247	427	227	621
21	191	667	467	6430	1990	735	1140	1590	233	528	345	415
22	184	1510	532	6080	2450	1070	875	1030	210	629	216	316
23	190	1520	859	5750	3590	1940	4310	963	180	402	194	472
24	464	1190	601	5370	2620	1620	7790	870	177	264	180	e2200
25	299	1230	535	5340	2010	1970	10100	692	195	251	177	e2400
26	262	2330	452	5550	1580	2580	9130	620	505	470	182	e3800
27	244	3390	412	5400	977	3150	10800	547	182	339	220	e4300
28	237	3500	496	4140	1290	8260	7620	528	377	283	274	e3700
29	205	1980	580	1050	---	8310	8070	588	702	288	857	3620
30	271	1610	866	918	---	5760	5070	513	1090	322	1030	2420
31	225	---	4530	877	---	3440	---	543	---	320	4830	---
TOTAL	7994	32417	38100	398175	90136	66479	114715	34092	12267	17883	14542	38925
MEAN	258	1081	1229	12840	3219	2144	3824	1100	409	577	469	1298
MAX	962	3500	4530	49100	10300	8310	10800	3480	1090	2450	4830	4300
MIN	142	208	412	877	677	575	497	513	177	221	177	182

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921-2005, BY WATER YEAR (WY)

MEAN	382	848	1521	2273	2372	2980	2535	1632	1320	828	484	378
MAX	4633	5490	7274	12840	5993	8373	6865	6175	5866	5804	3287	3883
(WY)	1927	1973	1991	2005	1975	1963	1964	1996	1947	1992	1995	1926
MIN	60.5	71.7	71.1	96.1	110	493	322	132	97.6	85.5	82.0	66.4
(WY)	1922	1923	1935	1945	1934	1941	1946	1934	1925	1921	1930	1924

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921-2005	
	Value	Date	Value	Date	Value	Date
ANNUAL TOTAL	723870		865725			
ANNUAL MEAN	1978		2372		1452	
HIGHEST ANNUAL MEAN					2514	1973
LOWEST ANNUAL MEAN					305	1934
HIGHEST DAILY MEAN	21700	Jan 5	49100	Jan 5	49100	Jan 6 2005
LOWEST DAILY MEAN	142	Oct 10	142	Oct 10	47	Sep 6 1930
ANNUAL SEVEN-DAY MINIMUM	148	Oct 6	148	Oct 6	53	Sep 5 1930
MAXIMUM PEAK FLOW			64600	Jan 6	68200	Jan 22 1959
MAXIMUM PEAK STAGE			26.61	Jan 6	27.22	Jan 22 1959
INSTANTANEOUS LOW FLOW					47	Sep 6 1930
10 PERCENT EXCEEDS	5880		6200		4010	
50 PERCENT EXCEEDS	889		763		481	
90 PERCENT EXCEEDS	225		218		121	

e Estimated.

03228300 Big Walnut Creek at Sunbury, Ohio

LOCATION.—Latitude 40°14'10", longitude 82°51'05", Delaware County, Hydrologic Unit 05060001, on left bank 200 ft downstream from bridge on State Highway 37, 0.1 mi downstream from Rattlesnake Creek, 0.6 mi east of Sunbury, Ohio, and 0.9 mi upstream from Prairie Run.

DRAINAGE AREA.—101 mi².

Water-Discharge Records

PERIOD OF RECORD.—October 1988 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 945 ft above sea level (from topographic map).

REMARKS.—Records fair except for periods of estimated record and flows below 0.5 ft³/s, which are poor. Water-quality data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	3.4	11	652	e650	e15	68	76	124	16	22	0.10	205		
2	1.3	13	246	e300	e13	41	676	84	14	13	0.07	49		
3	1.7	53	150	e950	e12	35	944	63	12	5.5	0.04	e20		
4	0.40	230	108	e2800	e11	36	554	48	11	2.9	0.03	e12		
5	0.32	158	82	e2050	e10	100	198	38	11	2.9	0.67	e6.8		
6	0.21	72	68	e5000	e20	165	115	33	18	6.4	2.0	4.2		
7	0.16	49	118	e660	e100	207	87	31	14	4.7	2.7	3.3		
8	0.19	36	169	86	432	89	79	29	11	3.6	0.68	2.6		
9	0.28	29	146	102	164	42	59	25	7.8	2.0	0.25	1.7		
10	0.39	24	424	127	45	48	48	23	9.5	1.8	0.14	1.1		
11	0.42	23	224	199	37	71	41	22	7.7	0.80	0.09	0.69		
12	0.70	26	216	3640	81	75	36	22	6.9	0.32	0.06	0.44		
13	1.3	29	140	1130	102	54	31	20	6.2	0.16	0.04	0.20		
14	2.1	25	81	490	204	58	26	64	7.3	0.11	0.03	0.14		
15	3.4	22	46	30	292	61	22	79	7.7	1.6	0.07	0.11		
16	5.5	21	74	20	208	50	19	50	5.8	23	0.16	0.48		
17	6.2	23	97	10	95	51	18	34	4.8	52	0.11	0.88		
18	8.3	76	79	9.9	36	47	18	27	4.2	13	0.06	0.67		
19	28	241	e58	17	44	44	16	25	3.6	16	0.04	1.2		
20	20	345	e45	21	82	84	14	199	2.0	10	0.05	1.3		
21	13	158	e37	e12	179	71	19	73	0.28	7.1	0.06	1.3		
22	9.7	88	e32	e9.2	132	53	29	42	0.21	4.1	0.03	0.50		
23	10	75	e39	e7.6	87	218	627	35	0.16	2.8	0.02	44		
24	24	109	e54	e9.2	60	169	951	59	0.12	1.9	0.00	53		
25	28	196	e47	e24	46	194	872	39	0.09	3.1	0.00	25		
26	20	119	e40	e14	73	277	454	29	0.10	3.5	0.00	316		
27	15	84	e33	e11	66	141	613	24	0.39	2.3	0.05	227		
28	12	121	e30	e10	100	1050	218	22	0.47	1.2	0.07	77		
29	9.1	103	e50	e13	---	506	127	25	0.56	0.69	28	89		
30	9.5	96	e150	e25	---	192	144	23	4.8	0.39	45	78		
31	12	---	e1500	e18	---	112	---	19	---	0.17	881	---		
TOTAL	246.57	2655	5235	18444.9	2746	4409	7131	1430	187.68	209.04	961.62	1222.61		
MEAN	7.95	88.5	169	595	98.1	142	238	46.1	6.26	6.74	31.0	40.8		
MAX	28	345	1500	5000	432	1050	951	199	18	52	881	316		
MIN	0.16	11	30	7.6	10	35	14	19	0.09	0.11	0.00	0.11		
CFSM	0.08	0.88	1.67	5.89	0.97	1.41	2.35	0.46	0.06	0.07	0.31	0.40		
IN.	0.09	0.98	1.93	6.79	1.01	1.62	2.63	0.53	0.07	0.08	0.35	0.45		
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989-2005 BY WATER YEAR (WY)														
MEAN	14.4	65.1	132	193	155	167	199	161	144	71.0	35.4	29.0		
MAX	81.2	256	585	595	424	354	334	398	338	348	167	323		
(WY)	1991	1993	1991	2005	1990	1993	1996	1996	1989	1992	1995	2003		
MIN	0.00	0.05	0.72	16.4	12.4	46.0	36.7	17.0	1.29	0.15	0.01	0.01		
(WY)	1992	1992	1992	1992	2003	1990	1997	1999	1999	1991	1991	1991		
SUMMARY STATISTICS														
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1989-2005		
ANNUAL TOTAL				55443.62				44878.42						
ANNUAL MEAN				151				123				114		
HIGHEST ANNUAL MEAN												159	1996	
LOWEST ANNUAL MEAN												67.4	1992	
HIGHEST DAILY MEAN				3140 Jun 14				5000 Jan 6				5000	Jan 6	2005
LOWEST DAILY MEAN				0.16 Oct 7				0.00 Aug 24				0.00	Jul 24	1991
ANNUAL SEVEN-DAY MINIMUM				0.28 Oct 4				0.02 Aug 20				0.00	Jul 24	1991
MAXIMUM PEAK FLOW								6320 Jan 12a				6700	Jun 1	1997
MAXIMUM PEAK STAGE								11.24 Jan 12				11.86	Dec 20	1990
INSTANTANEOUS LOW FLOW												0.00	Jul 24	1991
ANNUAL RUNOFF (CFSM)				1.50				1.22				1.12		
ANNUAL RUNOFF (INCHES)				20.42				16.53				15.28		
10 PERCENT EXCEEDS				347				217				256		
50 PERCENT EXCEEDS				41				25				28		
90 PERCENT EXCEEDS				3.7				0.21				0.25		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03228300 Big Walnut Creek at Sunbury, Ohio—Continued
Water-Quality Records

PERIOD OF RECORD.—April 2000 to current year.

PERIOD OF DAILY RECORD—

SPECIFIC CONDUCTANCE: April 2000 to current year.

pH: April 2000 to current year.

WATER TEMPERATURE: April 2000 to current year.

DISSOLVED OXYGEN: April 2000 to current year.

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Seasonal site. Additional interruptions in the water-quality record are due to malfunction of the equipment. Specific conductance records are good.

pH records are good except for Oct. 1-Dec. 8, which are fair. Water temperature records are good. Dissolved oxygen records are fair except Oct. 1- 7,

Nov. 4-Dec. 8, and Apr. 7 and 12-27, which are poor.

EXTREMES FOR PERIOD OF RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 999 microsiemens, Dec. 4, 2002; minimum, 126 microsiemens, June 14, 2004.

pH: Maximum, 9.0 units, May 3-4, 2005; minimum, 6.5 units, Apr. 18, 2001.

WATER TEMPERATURE: Maximum, 33°C, July 24 and Aug. 16, 2000; minimum, 0.2°C, Dec. 13, 2003.

DISSOLVED OXYGEN: Maximum, 20 mg/L, Sept. 1 and 29, 2000, and Aug. 20, 2001; minimum, 0.3 mg/L, June 16, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 728 microsiemens, Oct. 20; minimum, 241 microsiemens, Aug. 31.

pH: Maximum, 9.0 units, May 3-4; minimum, 7.0 units, Nov. 6.

WATER TEMPERATURE: Maximum, 29.1°C, Aug. 13; minimum, 2.8°C, Dec. 4.

DISSOLVED OXYGEN: Maximum, 16.2 mg/L, Nov. 15; minimum, 2.0 mg/L, Aug. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	636	613	628	671	659	666	531	317	372	---	---	---
2	642	627	636	679	656	669	466	358	415	---	---	---
3	646	626	638	667	647	659	527	466	497	---	---	---
4	649	628	641	654	325	498	562	527	545	---	---	---
5	654	632	645	444	325	385	587	562	575	---	---	---
6	657	638	650	519	444	484	600	585	591	---	---	---
7	661	638	652	571	519	544	607	492	578	---	---	---
8	663	637	652	599	571	584	---	---	---	---	---	---
9	666	638	654	623	599	609	---	---	---	---	---	---
10	671	650	662	628	613	622	---	---	---	---	---	---
11	673	647	663	639	627	634	---	---	---	---	---	---
12	675	649	664	653	627	637	---	---	---	---	---	---
13	674	647	663	664	647	657	---	---	---	---	---	---
14	673	658	665	669	649	660	---	---	---	---	---	---
15	679	645	658	665	640	655	---	---	---	---	---	---
16	680	652	668	661	638	652	---	---	---	---	---	---
17	688	676	684	664	634	652	---	---	---	---	---	---
18	694	641	674	641	616	630	---	---	---	---	---	---
19	720	645	683	627	463	529	---	---	---	---	---	---
20	728	644	685	463	423	431	---	---	---	---	---	---
21	646	638	642	515	438	480	---	---	---	---	---	---
22	656	639	647	558	515	537	---	---	---	---	---	---
23	656	625	647	592	558	575	---	---	---	---	---	---
24	633	617	628	626	552	597	---	---	---	---	---	---
25	657	618	643	522	455	482	---	---	---	---	---	---
26	640	620	628	528	481	507	---	---	---	---	---	---
27	628	613	622	565	528	547	---	---	---	---	---	---
28	634	616	627	576	515	560	---	---	---	---	---	---
29	638	627	632	515	482	495	---	---	---	---	---	---
30	654	632	643	553	507	534	---	---	---	---	---	---
31	662	646	656	---	---	---	---	---	---	---	---	---
MONTH	728	613	651	679	325	572	607	317	510	---	---	---

03228300 Big Walnut Creek at Sunbury, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.2	7.5	7.9	8.2	7.3	7.7	8.1	7.7	7.8	---	---	---
2	8.0	7.3	7.5	8.1	7.4	7.7	8.1	7.8	8.0	---	---	---
3	8.0	7.1	7.3	8.0	7.2	7.8	8.4	7.7	8.1	---	---	---
4	8.2	7.2	7.4	8.0	7.1	7.7	8.4	7.2	8.2	---	---	---
5	8.2	7.1	7.9	7.9	7.3	7.7	8.5	7.2	8.2	---	---	---
6	8.2	7.1	7.5	8.1	7.0	8.0	8.3	7.8	8.2	---	---	---
7	8.2	7.1	7.5	8.2	7.3	8.0	8.4	7.8	8.1	---	---	---
8	8.2	7.2	7.9	8.3	7.3	8.1	---	---	---	---	---	---
9	8.1	7.2	7.4	8.4	7.3	8.1	---	---	---	---	---	---
10	8.1	7.2	7.4	8.3	7.2	8.2	---	---	---	---	---	---
11	8.3	7.3	8.0	8.2	7.3	8.0	---	---	---	---	---	---
12	8.3	7.2	8.0	8.4	7.3	8.2	---	---	---	---	---	---
13	8.1	7.2	7.4	8.3	7.3	8.1	---	---	---	---	---	---
14	8.0	7.2	7.4	8.4	7.3	8.2	---	---	---	---	---	---
15	8.1	7.2	7.9	8.5	7.2	8.2	---	---	---	---	---	---
16	8.1	7.2	8.0	8.4	7.9	8.2	---	---	---	---	---	---
17	8.2	7.2	7.3	8.3	7.6	8.1	---	---	---	---	---	---
18	8.1	7.1	7.6	8.3	7.6	8.1	---	---	---	---	---	---
19	8.1	7.2	7.8	8.1	7.5	7.9	---	---	---	---	---	---
20	8.1	7.3	7.7	7.9	7.3	7.7	---	---	---	---	---	---
21	8.1	7.2	7.8	8.0	7.3	7.6	---	---	---	---	---	---
22	8.0	7.2	7.8	8.2	7.2	8.1	---	---	---	---	---	---
23	8.2	7.4	8.0	8.4	7.5	8.1	---	---	---	---	---	---
24	8.0	7.2	7.5	8.1	7.7	8.0	---	---	---	---	---	---
25	8.0	7.2	7.6	8.1	7.5	8.0	---	---	---	---	---	---
26	8.2	7.4	7.8	8.3	7.3	8.1	---	---	---	---	---	---
27	8.1	7.3	7.8	8.1	7.3	7.8	---	---	---	---	---	---
28	8.3	7.2	7.9	8.3	7.2	8.1	---	---	---	---	---	---
29	8.2	7.3	7.9	8.3	7.6	8.1	---	---	---	---	---	---
30	7.9	7.4	7.7	8.4	7.6	8.1	---	---	---	---	---	---
31	8.0	7.2	7.8	---	---	---	---	---	---	---	---	---
MAX	8.3	7.5	8.0	8.5	7.9	8.2	8.5	7.8	8.2	---	---	---
MIN	7.9	7.1	7.3	7.9	7.0	7.6	8.1	7.2	7.8	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	---	---	---	---	---	---	---	---	---	8.8	8.1	8.4
2	---	---	---	---	---	---	---	---	---	8.9	8.2	8.5
3	---	---	---	---	---	---	---	---	---	9.0	8.2	8.6
4	---	---	---	---	---	---	---	---	---	9.0	8.3	8.6
5	---	---	---	---	---	---	---	---	---	8.9	8.3	8.6
6	---	---	---	---	---	---	---	---	---	8.7	8.2	8.4
7	---	---	---	---	---	---	---	---	---	8.5	8.1	8.3
8	---	---	---	---	---	---	---	---	---	8.5	8.1	8.2
9	---	---	---	---	---	---	---	---	---	8.4	8.0	8.1
10	---	---	---	---	---	---	---	---	---	8.3	8.0	8.1
11	---	---	---	---	---	---	---	---	---	8.3	8.0	8.0
12	---	---	---	---	---	---	---	---	---	8.2	8.0	8.2
13	---	---	---	---	---	---	8.9	8.2	8.5	8.4	8.2	8.2
14	---	---	---	---	---	---	8.8	8.2	8.5	8.2	8.1	8.2
15	---	---	---	---	---	---	8.8	8.2	8.4	8.4	8.1	8.2
16	---	---	---	---	---	---	8.7	8.2	8.4	8.4	8.1	8.3
17	---	---	---	---	---	---	8.7	8.2	8.3	8.5	8.2	8.3
18	---	---	---	---	---	---	8.6	8.1	8.3	8.5	8.2	8.3
19	---	---	---	---	---	---	8.6	8.1	8.2	8.4	8.2	8.3
20	---	---	---	---	---	---	8.6	8.1	8.2	8.2	7.9	8.0
21	---	---	---	---	---	---	8.6	8.1	8.2	8.3	7.9	8.1
22	---	---	---	---	---	---	8.4	8.2	8.2	8.3	8.1	8.2
23	---	---	---	---	---	---	8.2	7.7	8.1	8.5	8.2	8.3
24	---	---	---	---	---	---	7.8	7.7	7.8	8.4	8.2	8.3
25	---	---	---	---	---	---	7.8	7.7	7.8	8.6	8.2	8.3
26	---	---	---	---	---	---	8.1	7.8	7.9	8.6	8.2	8.3
27	---	---	---	---	---	---	8.0	7.7	7.9	8.6	8.2	8.3
28	---	---	---	---	---	---	8.4	8.0	8.1	8.6	8.2	8.3
29	---	---	---	---	---	---	8.6	8.1	8.2	8.6	8.2	8.3
30	---	---	---	---	---	---	8.5	8.1	8.2	8.6	8.2	8.3
31	---	---	---	---	---	---	---	---	---	8.6	8.2	8.3
MAX	---	---	---	---	---	---	8.9	8.2	8.5	9.0	8.3	8.6
MIN	---	---	---	---	---	---	7.8	7.7	7.8	8.2	7.9	8.0

03228300 Big Walnut Creek at Sunbury, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.6	8.2	8.3	8.1	7.8	8.0	8.0	7.6	7.8	7.8	7.6	7.7
2	8.5	8.2	8.2	8.3	8.0	8.0	7.9	7.6	7.7	8.0	7.8	7.8
3	8.6	8.2	8.2	8.4	8.0	8.1	8.0	7.6	7.8	---	---	---
4	8.6	8.2	8.2	8.5	8.0	8.1	8.0	7.6	7.7	---	---	---
5	8.6	8.1	8.2	8.2	7.9	8.0	8.1	7.6	7.8	---	---	---
6	8.5	8.1	8.2	8.5	8.0	8.1	8.2	7.8	8.0	8.2	7.9	7.9
7	8.6	8.1	8.2	8.6	8.0	8.2	8.4	8.0	8.1	8.2	7.9	7.9
8	8.6	8.1	8.2	8.5	8.0	8.1	8.5	7.9	8.0	8.2	7.9	7.9
9	8.7	8.0	8.1	8.5	8.0	8.1	8.3	7.8	8.0	8.3	7.8	7.9
10	8.6	8.1	8.2	8.5	8.0	8.1	8.2	7.7	7.9	8.2	7.9	7.9
11	8.5	8.1	8.2	8.5	7.9	8.1	8.2	7.7	7.8	8.2	7.8	7.9
12	8.5	8.1	8.2	8.3	7.8	8.0	8.1	7.6	7.8	8.2	7.8	7.9
13	8.5	8.1	8.2	8.2	7.7	7.8	8.2	7.6	7.8	8.0	7.7	7.8
14	8.5	8.1	8.2	8.1	7.6	7.7	8.0	7.6	7.8	7.9	7.6	7.7
15	8.5	8.1	8.2	8.0	7.6	7.7	7.9	7.6	7.7	7.8	7.6	7.7
16	8.6	8.1	8.2	8.2	7.7	7.9	8.1	7.6	7.7	7.8	7.5	7.7
17	8.6	8.1	8.2	8.1	7.9	7.9	8.1	7.7	7.8	8.0	7.6	7.8
18	8.7	8.1	8.3	8.3	7.9	8.0	8.0	7.6	7.8	8.1	7.8	7.8
19	8.7	8.1	8.2	8.3	7.9	8.0	8.0	7.6	7.8	8.2	7.8	7.9
20	8.6	8.1	8.2	8.3	7.9	8.0	8.0	7.6	7.8	8.1	7.8	7.9
21	8.4	7.9	8.1	8.3	7.9	7.9	8.1	7.6	7.7	8.2	7.8	7.8
22	8.3	7.7	7.9	8.3	7.8	7.9	8.2	7.6	7.8	8.2	7.8	7.9
23	8.2	7.7	7.9	8.3	7.8	7.9	8.1	7.7	7.8	8.0	7.8	7.9
24	8.2	7.6	7.8	8.4	7.8	8.0	8.2	7.7	7.8	7.9	7.8	7.9
25	8.0	7.6	7.8	8.2	7.7	7.8	8.2	7.7	7.9	8.1	7.9	8.0
26	8.1	7.6	7.8	8.2	7.7	7.9	8.1	7.7	7.9	8.0	7.7	7.9
27	8.3	7.7	7.9	8.1	7.8	7.9	7.9	7.6	7.7	7.9	7.7	7.8
28	8.0	7.7	7.9	8.3	7.8	8.0	7.9	7.6	7.6	8.1	7.9	7.9
29	8.2	7.8	7.9	8.3	7.9	8.0	7.9	7.6	7.7	8.1	7.9	8.0
30	8.1	7.8	7.9	8.3	7.8	8.0	7.8	7.7	7.7	8.0	7.8	7.9
31	---	---	---	8.1	7.7	7.8	7.7	7.4	7.5	---	---	---
MAX	8.7	8.2	8.3	8.6	8.0	8.2	8.5	8.0	8.1	8.3	7.9	8.0
MIN	8.0	7.6	7.8	8.0	7.6	7.7	7.7	7.4	7.5	7.8	7.5	7.7
YEAR	MAX	MAXIMUM 9.0 MINIMUM 7.7		MIN	MAXIMUM 8.3 MINIMUM 7.0		MEDIAN	MAXIMUM 8.6 MINIMUM 7.3				

TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	17.6	13.2	15.1	12.8	11.3	12.1	7.6	6.3	7.2	---	---	---
2	16.8	14.2	16.1	14.6	12.5	13.6	6.3	5.0	5.6	---	---	---
3	14.7	11.1	12.9	13.6	11.4	12.4	5.4	4.1	4.9	---	---	---
4	15.1	11.8	13.1	11.5	10.9	11.2	4.7	2.8	3.8	---	---	---
5	13.3	10.1	11.7	11.2	9.3	10.2	5.2	3.3	4.3	---	---	---
6	13.5	9.6	11.3	10.5	8.1	9.3	6.9	5.0	5.8	---	---	---
7	13.9	10.3	12.0	11.7	9.1	10.2	10.2	6.9	8.7	---	---	---
8	15.5	11.4	13.3	10.4	7.4	8.7	---	---	---	---	---	---
9	16.5	14.2	15.0	7.6	5.7	6.7	---	---	---	---	---	---
10	14.5	11.4	13.0	7.7	5.0	6.3	---	---	---	---	---	---
11	13.7	10.8	12.3	7.9	6.9	7.4	---	---	---	---	---	---
12	13.6	10.6	12.1	8.2	6.5	7.3	---	---	---	---	---	---
13	12.6	11.9	12.2	6.6	4.8	5.7	---	---	---	---	---	---
14	13.4	11.8	12.5	6.0	3.8	4.8	---	---	---	---	---	---
15	13.0	11.3	12.2	5.7	3.6	4.7	---	---	---	---	---	---
16	11.3	9.7	10.5	7.4	5.0	6.1	---	---	---	---	---	---
17	10.2	8.2	9.3	8.6	7.2	7.8	---	---	---	---	---	---
18	9.2	7.7	8.1	10.7	8.6	9.7	---	---	---	---	---	---
19	9.9	8.3	8.9	12.0	10.7	11.4	---	---	---	---	---	---
20	11.9	9.9	10.9	12.0	11.8	11.9	---	---	---	---	---	---
21	12.4	11.4	11.9	11.8	9.9	11.0	---	---	---	---	---	---
22	12.8	10.5	11.6	9.9	9.1	9.3	---	---	---	---	---	---
23	12.6	10.7	11.7	10.5	8.9	9.6	---	---	---	---	---	---
24	14.5	12.6	13.3	11.3	10.2	10.6	---	---	---	---	---	---
25	13.8	11.6	12.8	11.1	6.4	8.8	---	---	---	---	---	---
26	13.8	11.2	12.5	6.4	4.9	5.5	---	---	---	---	---	---
27	14.6	12.8	13.5	7.2	5.5	6.3	---	---	---	---	---	---
28	14.6	11.8	13.2	7.0	5.8	6.6	---	---	---	---	---	---
29	15.3	8.4	13.8	5.8	5.0	5.5	---	---	---	---	---	---
30	17.7	14.9	15.9	6.8	5.5	6.0	---	---	---	---	---	---
31	15.5	12.8	14.0	---	---	---	---	---	---	---	---	---
MONTH	17.7	7.7	12.5	14.6	3.6	8.6	10.2	2.8	5.8	---	---	---

03228300 Big Walnut Creek at Sunbury, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	13.4	8.3	10.4	13.1	9.0	10.3	11.6	11.0	11.2	---	---	---
2	11.8	7.4	9.2	10.9	8.5	9.4	12.8	11.6	12.3	---	---	---
3	12.9	9.0	10.6	11.7	8.4	10.1	13.7	12.1	12.8	---	---	---
4	12.5	9.1	10.4	10.5	10.0	10.2	14.6	12.6	13.4	---	---	---
5	13.2	9.1	10.7	11.0	10.1	10.6	14.6	12.4	13.3	---	---	---
6	12.5	9.0	10.6	11.6	10.2	11.0	13.7	11.7	12.6	---	---	---
7	12.9	8.7	10.4	11.6	9.9	10.6	12.4	10.6	11.4	---	---	---
8	12.8	8.1	10.0	12.7	10.0	11.3	---	---	---	---	---	---
9	12.3	7.1	9.0	14.1	11.3	12.4	---	---	---	---	---	---
10	11.8	7.7	9.5	14.3	11.2	12.6	---	---	---	---	---	---
11	12.5	8.2	9.9	13.2	11.0	11.7	---	---	---	---	---	---
12	12.8	8.3	10.0	13.9	11.0	12.0	---	---	---	---	---	---
13	11.6	7.9	9.3	14.8	11.6	13.0	---	---	---	---	---	---
14	12.8	7.9	9.6	15.6	12.5	13.7	---	---	---	---	---	---
15	10.7	7.8	9.0	16.2	12.4	13.8	---	---	---	---	---	---
16	12.1	8.7	10	15.5	11.2	13.0	---	---	---	---	---	---
17	12.6	9.5	10.8	13.1	10.4	11.4	---	---	---	---	---	---
18	11.5	10.0	10.7	11.7	10.2	10.7	---	---	---	---	---	---
19	11.5	10.1	10.8	10.6	9.6	10.0	---	---	---	---	---	---
20	10.9	9.6	10.3	9.8	9.6	9.7	---	---	---	---	---	---
21	11.1	9.1	9.9	10.5	9.6	10.0	---	---	---	---	---	---
22	12.3	9.2	10.4	11.4	10.0	10.5	---	---	---	---	---	---
23	12.5	9.0	10.2	12.1	10.0	10.8	---	---	---	---	---	---
24	11.1	8.6	9.5	10.7	9.8	10.1	---	---	---	---	---	---
25	11.4	9.4	10.1	11.4	9.8	10.7	---	---	---	---	---	---
26	12.4	9.1	10.4	13.0	11.3	12.1	---	---	---	---	---	---
27	12.5	8.8	10.1	13.6	11.3	12.3	---	---	---	---	---	---
28	13.0	8.9	10.3	12.6	11.1	11.8	---	---	---	---	---	---
29	12.0	8.3	9.5	13.5	11.8	12.4	---	---	---	---	---	---
30	11.9	7.7	9.0	13.6	11.4	12.2	---	---	---	---	---	---
31	12.7	7.6	9.7	---	---	---	---	---	---	---	---	---
MONTH	13.4	7.1	10.0	16.2	8.4	11.3	14.6	10.6	12.4	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	---	---	---	---	---	---	---	---	---	12.9	10.2	11.2
2	---	---	---	---	---	---	---	---	---	13.2	10.2	11.4
3	---	---	---	---	---	---	---	---	---	14.5	10.5	12.1
4	---	---	---	---	---	---	---	---	---	14.9	9.8	12.1
5	---	---	---	---	---	---	---	---	---	14.2	8.9	11.3
6	---	---	---	---	---	---	---	---	---	12.5	8.2	10.1
7	---	---	---	---	---	---	---	---	---	11.3	7.7	9.3
8	---	---	---	---	---	---	---	---	---	10.7	7.3	8.9
9	---	---	---	---	---	---	---	---	---	10.1	6.8	8.4
10	---	---	---	---	---	---	---	---	---	9.4	6.6	7.8
11	---	---	---	---	---	---	---	---	---	9.2	6.6	7.6
12	---	---	---	---	---	---	---	---	---	9.2	6.7	8.3
13	---	---	---	---	---	---	13.0	8.7	10.4	10.1	7.2	8.9
14	---	---	---	---	---	---	12.9	8.6	10.4	8.8	7.2	8.0
15	---	---	---	---	---	---	12.9	8.3	10.3	9.8	8.2	8.9
16	---	---	---	---	---	---	12.6	8.1	10.0	10.5	8.8	9.6
17	---	---	---	---	---	---	12.4	8.0	9.8	10.9	8.5	9.7
18	---	---	---	---	---	---	11.8	7.5	9.4	10.8	8.0	9.3
19	---	---	---	---	---	---	11.4	7.0	8.9	9.9	8.0	8.8
20	---	---	---	---	---	---	11.2	7.0	8.5	9.2	8.5	9.0
21	---	---	---	---	---	---	11.6	7.0	8.9	9.7	8.2	9.2
22	---	---	---	---	---	---	10.7	8.3	9.3	10.0	8.3	9.1
23	---	---	---	---	---	---	10.6	8.8	9.8	10.6	8.6	9.3
24	---	---	---	---	---	---	11.7	10.6	11.2	10.3	8.6	9.4
25	---	---	---	---	---	---	11.9	10.2	11.3	10.9	8.5	9.7
26	---	---	---	---	---	---	10.6	10.1	10.3	10.9	7.9	9.3
27	---	---	---	---	---	---	11.0	10.2	10.7	10.8	7.9	8.9
28	---	---	---	---	---	---	11.9	10.3	11.1	10.9	8.0	8.9
29	---	---	---	---	---	---	11.9	10.0	10.8	11.0	8.1	9.2
30	---	---	---	---	---	---	11.8	10.0	10.6	11.6	8.0	9.1
31	---	---	---	---	---	---	---	---	---	11.2	7.7	9.1
MONTH	---	---	---	---	---	---	13.0	7.0	10.1	14.9	6.6	9.4

03228500 Big Walnut Creek at Central College, Ohio

LOCATION.—Latitude 40°06'13", longitude 82°53'03", T.2 N., R.17 W., Franklin County, Hydrologic Unit 05060001, on right bank at upstream side of county road bridge, 0.2 mi east of Central College, 0.4 mi downstream from Hoover Dam, and 3 mi southeast of Westerville, Ohio.

DRAINAGE AREA.—190 mi².

PERIOD OF RECORD.—July 1938 to current year.

REVISED RECORDS.—WSP 873: 1938. WSP 1435: Drainage area.

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

REMARKS.—Records fair except for periods of estimated record, which are poor. Flow completely regulated by Hoover Reservoir since Sept. 1954. (See station 03228400). Water-quality data collected at this site 1965-1977. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	228	116	335	134	140	300	273	131	140	192	141
2	128	157	113	696	134	129	719	243	115	135	209	136
3	155	130	112	2480	131	126	1900	222	123	146	220	117
4	143	121	112	3950	131	114	1200	128	162	158	203	128
5	124	121	111	3660	124	148	596	127	150	156	175	124
6	132	120	111	9170	123	160	374	122	180	143	135	142
7	143	119	112	4060	137	255	297	121	169	162	142	144
8	162	126	113	1890	327	340	280	119	206	143	180	143
9	177	118	119	1180	1060	228	229	109	141	157	185	143
10	180	118	119	693	839	182	138	112	175	163	206	157
11	180	116	118	2260	495	156	124	112	162	174	179	156
12	180	117	116	4380	320	140	111	113	132	153	202	164
13	160	116	124	4090	282	171	123	108	139	131	198	156
14	154	116	130	3300	279	117	112	106	150	133	144	163
15	150	124	115	1310	442	111	108	98	150	138	133	169
16	174	129	116	658	418	102	105	104	154	139	131	142
17	137	124	116	376	380	100	105	116	139	117	143	116
18	142	128	116	290	312	94	104	116	150	131	149	119
19	141	120	116	251	244	93	97	125	150	144	135	140
20	136	120	127	240	218	90	115	184	166	147	149	143
21	127	111	129	164	234	97	117	119	166	149	140	124
22	152	114	141	160	235	101	118	115	204	147	145	136
23	179	114	148	164	227	203	163	110	222	158	145	146
24	208	115	125	172	229	303	771	114	216	168	151	116
25	203	112	124	410	180	294	1260	136	222	179	177	126
26	201	94	124	473	187	379	911	149	154	175	176	130
27	219	94	158	244	144	360	913	138	206	154	132	136
28	226	113	163	132	132	999	606	116	186	145	119	117
29	219	116	168	132	---	1280	385	116	146	156	138	119
30	228	117	163	126	---	609	334	112	146	177	130	116
31	228	---	169	137	---	368	---	140	---	177	121	---
TOTAL	5220	3668	3944	47583	8098	7989	12715	4123	4912	4695	4984	4109
MEAN	168	122	127	1535	289	258	424	133	164	151	161	137
MAX	228	228	169	9170	1060	1280	1900	273	222	179	220	169
MIN	124	94	111	126	123	90	97	98	115	117	119	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-2005, BY WATER YEAR (WY)

MEAN	113	124	157	226	239	333	334	272	232	163	145	129
MAX	289	650	926	1535	781	957	783	786	720	503	655	626
(WY)	1980	1973	1991	2005	1975	1963	1961	1996	1997	1987	1980	1979
MIN	0.15	1.69	0.77	1.02	6.24	89.1	46.2	21.5	0.30	0.55	4.86	3.43
(WY)	1956	1956	1956	1956	1956	1972	1955	1955	1955	1955	1955	1955

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1955-2005	
	112443	307	112040	307	205	1973
ANNUAL TOTAL	112443	307	112040	307	205	1973
ANNUAL MEAN					337	
HIGHEST ANNUAL MEAN					111	1966
LOWEST ANNUAL MEAN					10600	1959
HIGHEST DAILY MEAN	4870	Jan 5	9170	Jan 6	0.00	May 20
LOWEST DAILY MEAN	94	Nov 26	90	Mar 20	0.00	May 31
ANNUAL SEVEN-DAY MINIMUM	108	Nov 21	97	Mar 16	0.00	1955
MAXIMUM PEAK FLOW			12100	Jan 6	23800	Jan 21
MAXIMUM PEAK STAGE			15.21	Jan 6	19.75	Jan 21
INSTANTANEOUS LOW FLOW					0.00	May 20
10 PERCENT EXCEEDS	525		379		309	
50 PERCENT EXCEEDS	165		144		124	
90 PERCENT EXCEEDS	120		113		66	

03228560 Rocky Fork at Gahanna, Ohio

LOCATION.—Latitude 40°01'18", longitude 82°51'57", Franklin County, Hydrologic Unit 05060001, on right bank at upstream side of Hamilton Road bridge at Gahanna, Ohio.

DRAINAGE AREA.—28.2 mi².

PERIOD OF RECORD.—July 2003 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 780 ft above sea level (from topographic map).

REMARKS.—Records good except for periods of estimated record, which are poor.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e15	8.0	206	e140	e5.6	e21	20	25	7.8	58	2.1	55
2	11	19	55	e90	e5.0	e15	442	17	6.2	13	1.8	19
3	8.1	42	32	e700	e4.6	e12	309	13	5.9	6.1	1.7	8.8
4	4.9	54	23	e500	e4.3	e11	64	11	5.8	4.9	1.6	5.6
5	6.3	40	18	e1000	e4.0	e31	35	9.3	5.3	20	9.9	4.3
6	6.2	21	16	e1500	e6.6	e41	25	8.6	4.8	14	7.6	3.7
7	6.5	13	37	e400	e54	e52	23	8.4	4.5	6.2	3.2	3.2
8	6.4	9.7	42	e60	e90	e28	19	7.6	4.4	4.5	2.6	2.9
9	6.1	7.5	95	e90	e40	e13	14	6.8	4.5	10	2.4	2.8
10	6.0	7.1	149	e180	e16	e15	11	6.3	4.4	4.6	2.1	2.7
11	5.4	13	59	e300	e14	e20	9.5	6.7	4.6	3.5	2.0	2.6
12	5.3	53	47	e1300	e22	e24	8.4	7.3	5.4	3.5	1.9	2.4
13	5.6	24	33	e520	e29	e13	8.7	6.2	4.4	3.3	2.6	2.3
14	4.9	14	24	e100	e52	e17	7.3	31	4.0	5.8	8.5	2.2
15	15	10	18	e10	e70	e22	6.1	28	3.6	4.6	3.3	2.2
16	10	9.5	16	e5.0	e52	9.6	5.4	11	3.6	7.0	3.3	31
17	8.1	19	15	e3.7	e27	10	5.0	7.5	3.4	8.8	2.7	12
18	63	57	13	e4.4	e13	9.2	4.9	6.2	3.4	7.1	2.0	4.3
19	86	91	12	e8.4	e18	13	5.2	30	3.4	10	2.1	3.3
20	26	93	17	e6.8	e24	25	5.9	280	3.4	7.4	6.5	4.3
21	14	44	12	e5.8	e47	14	33	40	3.4	21	9.2	3.5
22	9.7	28	12	e4.2	e35	11	26	20	3.2	12	2.8	3.0
23	9.4	22	290	e3.2	e25	66	398	17	3.0	6.2	2.2	9.3
24	38	55	94	e3.6	e18	55	286	16	2.9	4.1	1.8	21
25	19	60	52	e4.6	e16	54	225	10	2.6	3.9	1.6	10
26	10	31	27	e9.0	e24	108	79	8.1	2.5	12	1.5	102
27	12	22	21	e4.2	e20	40	140	6.9	2.7	5.9	9.6	40
28	10	50	14	e3.8	e29	590	44	21	4.8	5.0	11	12
29	16	32	23	e4.5	---	128	28	19	8.4	3.5	48	29
30	23	42	e140	e7.8	---	45	33	12	46	2.7	136	19
31	13	---	e300	e6.0	---	29	---	16	---	2.3	456	---
TOTAL	479.9	990.8	1912	6975.0	765.1	1541.8	2320.4	712.9	172.3	280.9	749.6	423.4
MEAN	15.5	33.0	61.7	225	27.3	49.7	77.3	23.0	5.74	9.06	24.2	14.1
MAX	86	93	300	1500	90	590	442	280	46	58	456	102
MIN	4.9	7.1	12	3.2	4.0	9.2	4.9	6.2	2.5	2.3	1.5	2.2
CFSM	0.55	1.17	2.19	7.98	0.97	1.76	2.74	0.82	0.20	0.32	0.86	0.50
IN.	0.63	1.31	2.52	9.20	1.01	2.03	3.06	0.94	0.23	0.37	0.99	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003-2005, BY WATER YEAR (WY)

MEAN	14.5	33.7	57.1	172	42.6	49.6	68.2	43.3	57.9	17.3	35.7	47.0
MAX	15.5	34.3	61.7	225	57.3	49.7	77.3	63.6	110	21.8	59.8	110
(WY)	2005	2004	2005	2005	2004	2005	2005	2004	2004	2003	2003	2003
MIN	13.5	33.0	52.6	119	27.3	49.5	59.1	23.0	5.74	9.06	23.2	14.1
(WY)	2004	2005	2004	2004	2005	2004	2004	2005	2005	2005	2004	2005

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003-2005	
ANNUAL TOTAL	19191.9		17324.1			
ANNUAL MEAN	52.4		47.5		49.5	
HIGHEST ANNUAL MEAN					51.6 2004	
LOWEST ANNUAL MEAN					47.5 2005	
HIGHEST DAILY MEAN	1540	Jan 4	1500	Jan 6	1540	Jan 4 2004
LOWEST DAILY MEAN	3.2	Jul 16	1.5	Aug 26	1.5	Aug 26 2005
ANNUAL SEVEN-DAY MINIMUM	3.6	Aug 12	2.2	Jul 29	2.2	Jul 29 2005
MAXIMUM PEAK FLOW			2170	Jan 6	2170	Jan 6 2005
MAXIMUM PEAK STAGE			8.55	Jan 6	8.55	Jan 6 2005
INSTANTANEOUS LOW FLOW			1.3	Aug 4	1.3	Aug 4 2005
ANNUAL RUNOFF (CFSM)	1.86		1.68		1.76	
ANNUAL RUNOFF (INCHES)	25.32		22.85		23.87	
10 PERCENT EXCEEDS	93		88		90	
50 PERCENT EXCEEDS	17		12		14	
90 PERCENT EXCEEDS	6.2		3.2		4.0	

e Estimated.

03228750 Alum Creek near Kilbourne, Ohio

LOCATION.—Latitude 40°21'24", longitude 82°55'18", Delaware County, Hydrologic Unit 05060001, on left bank of upstream side of bridge on County Road 34, 500 ft downstream from West Branch Alum Creek, and 2.6 mi northeast of Kilbourne.

DRAINAGE AREA.—64.9 mi².

PERIOD OF RECORD.—November 1973 to September 1981, October 2000 to current year.

REVISED RECORDS.—WDR OH-04-1: 2002, 2003.

GAGE.—Water-stage recorder. Datum of gage is 900.99 ft above sea level.

REMARKS.—Records fair except for periods of estimated discharge, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	10	259	e580	e28	65	55	67	9.9	29	1.7	48
2	4.4	12	88	200	e27	45	433	49	9.1	7.7	1.4	11
3	4.5	34	46	1450	e26	42	862	40	8.8	3.0	1.2	5.2
4	4.2	41	34	824	e25	101	258	34	8.2	1.6	1.1	3.3
5	3.9	38	27	1930	e24	61	109	30	7.8	2.5	4.6	2.4
6	3.8	23	24	2420	e30	94	74	28	16	5.0	5.3	2.0
7	4.3	19	37	341	e60	72	66	26	16	3.4	4.0	1.6
8	4.2	15	64	489	974	67	59	23	9.2	1.9	2.4	1.5
9	4.2	12	47	224	386	46	47	21	16	1.6	1.8	1.4
10	3.9	11	111	114	206	46	41	21	11	1.3	1.5	1.3
11	4.2	11	80	753	95	32	36	21	9.1	0.77	1.1	1.2
12	4.6	15	82	2840	70	30	32	20	8.0	0.49	1.0	1.1
13	15	15	49	646	73	27	30	18	6.4	0.49	0.95	0.99
14	17	13	33	988	111	31	26	64	6.0	0.57	1.3	0.91
15	15	11	e28	199	135	27	24	73	5.9	0.93	3.2	1.2
16	18	11	e24	120	172	30	22	35	5.7	2.3	4.0	6.3
17	11	12	e21	e90	135	30	22	26	5.1	2.2	2.8	4.3
18	14	26	e18	e78	65	28	22	21	4.5	2.3	2.2	2.7
19	35	112	e16	e70	100	29	21	22	3.6	1.6	1.7	1.9
20	19	116	e14	e64	41	49	20	29	3.1	3.2	2.5	1.6
21	14	55	e13	e60	73	38	28	22	3.0	3.8	7.7	1.5
22	11	32	e12	e56	64	30	28	19	2.9	3.1	4.4	1.4
23	10	26	e18	e52	47	67	335	21	2.7	2.4	2.6	54
24	26	47	e25	e49	40	72	451	33	2.0	2.1	1.6	32
25	20	111	e21	e45	56	75	430	24	1.6	1.9	1.1	13
26	14	51	e18	e42	32	160	198	18	1.5	2.5	0.88	134
27	12	32	e15	e39	33	74	289	15	1.4	3.6	1.2	81
28	11	63	e13.5	e36	36	822	108	15	1.4	4.4	1.1	21
29	10	44	e31	e34	---	247	73	16	1.4	3.8	1.3	22
30	9.9	36	e80	e31	---	109	82	14	13	2.9	6.7	25
31	10	---	e720	e29	---	73	---	13	---	2.1	155	---
TOTAL	342.4	1054	2068.5	14893	3164	2719	4281	878	200.3	104.45	229.33	484.80
MEAN	11.0	35.1	66.7	480	113	87.7	143	28.3	6.68	3.37	7.40	16.2
MAX	35	116	720	2840	974	822	862	73	16	29	155	134
MIN	3.8	10	12	29	24	27	20	13	1.4	0.49	0.88	0.91
CFSM	0.17	0.54	1.03	7.40	1.74	1.35	2.20	0.44	0.10	0.05	0.11	0.25
IN.	0.20	0.60	1.19	8.54	1.81	1.56	2.45	0.50	0.11	0.06	0.13	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974-2005, BY WATER YEAR (WY)

MEAN	15.0	45.1	87.7	132	154	131	112	74.4	55.6	13.0	36.5	29.3
MAX	44.2	176	192	480	355	364	215	225	158	51.1	244	183
(WY)	2002	1980	1978	2005	1981	1978	2002	2004	2004	1980	1980	2003
MIN	2.96	5.63	11.0	8.04	16.2	28.9	21.4	12.0	4.60	1.56	1.93	1.86
(WY)	1975	1979	1977	1977	1978	2001	1976	1976	1977	2001	1975	1977

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1974-2005

ANNUAL TOTAL	32838.7	30418.78	
ANNUAL MEAN	89.7	83.3	73.9
HIGHEST ANNUAL MEAN			102
LOWEST ANNUAL MEAN			46.0
HIGHEST DAILY MEAN	1710	Jun 14	2840
LOWEST DAILY MEAN	1.9	Aug 18	0.49
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 12	0.88
MAXIMUM PEAK FLOW			4570
MAXIMUM PEAK STAGE			11.01
INSTANTANEOUS LOW FLOW			0.20
ANNUAL RUNOFF (CFSM)	1.38		1.28
ANNUAL RUNOFF (INCHES)	18.82		17.44
10 PERCENT EXCEEDS	199		156
50 PERCENT EXCEEDS	29		20
90 PERCENT EXCEEDS	4.9		2.2

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

b Ice affected.

e Estimated.

03228805 Alum Creek at Africa, Ohio

LOCATION.—Latitude 40°10'56", longitude 82°57'42", in SE ¼ sec. 1, T.3 N., R.18 W., Delaware County, Hydrologic Unit 05060001, on right bank 400 ft upstream of bridge on Lewis Center Road, 1,200 ft downstream from outlet of Alum Creek Dam, 0.3 mi west of Africa, Ohio, 2.8 mi upstream from Westerville Reservoir outlet, and 4.2 mi northwest of Westerville, Ohio.

DRAINAGE AREA.—122 mi².

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

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

REMARKS.—Records fair except for periods of estimated record, which are poor. Flow regulated by Alum Creek Lake since Aug. 1973. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREME FOR PERIOD OF RECORD.—Maximum discharge, 6,160 ft³/s Mar. 10, 1964, gage height 13.95 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 5, 1963, reached a stage of 14.2 ft, from floodmarks; discharge, 6,460 ft³/s.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	279	16	16	1640	86	118	32	18	14	18	19
2	82	279	15	16	1670	86	28	32	18	14	19	18
3	82	279	15	27	1660	86	22	37	17	14	20	18
4	128	278	15	21	1470	85	21	45	17	14	20	18
5	186	153	15	39	1250	85	21	45	16	14	22	18
6	186	73	15	27	1220	84	21	46	16	13	21	18
7	186	73	15	20	1200	84	25	46	16	13	20	18
8	186	48	15	21	1410	152	23	45	16	13	19	18
9	187	17	15	20	1510	183	23	46	16	14	19	18
10	187	16	15	897	900	185	22	47	15	14	20	18
11	187	17	15	1580	209	138	22	47	16	14	20	18
12	259	17	15	59	29	86	21	47	15	13	e20	18
13	380	17	14	21	29	86	21	47	14	14	e20	18
14	438	16	11	19	56	85	20	47	15	13	e20	18
15	370	16	13	17	151	62	20	43	15	13	e20	18
16	290	16	13	426	272	33	20	34	15	e14	20	19
17	290	16	13	777	321	32	20	32	14	e14	19	18
18	292	16	13	771	216	33	18	32	14	e14	20	18
19	290	16	13	756	87	33	19	31	15	e14	20	18
20	295	16	13	757	87	32	20	66	15	e14	20	18
21	293	16	13	775	87	33	21	83	15	e14	20	19
22	292	15	13	761	87	32	21	107	15	e15	19	18
23	295	15	13	773	87	126	26	86	15	e14	19	e18
24	290	15	13	764	87	181	188	84	15	e14	19	e18
25	281	15	13	744	87	181	792	85	15	e15	19	e19
26	281	15	13	741	86	183	1280	42	15	e15	19	e19
27	280	15	13	1090	86	182	911	20	15	14	19	19
28	281	15	13	1690	86	117	671	20	e15	13	19	19
29	280	15	14	1680	---	194	176	19	e15	13	22	19
30	280	15	15	1630	---	295	32	19	e15	14	24	19
31	280	---	21	1660	---	296	---	18	---	14	27	---
TOTAL	7676	1809	438	18595	16080	3556	4643	1430	463	429	623	549
MEAN	248	60.3	14.1	600	574	115	155	46.1	15.4	13.8	20.1	18.3
MAX	438	279	21	1690	1670	296	1280	107	18	15	27	19
MIN	42	15	11	16	29	32	18	18	14	13	18	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974-2005, BY WATER YEAR (WY)

MEAN	70.7	101	124	135	172	156	105	127	104	66.5	40.2	59.7
MAX	534	375	460	600	574	514	358	651	360	364	570	618
(WY)	2004	1980	1991	2005	2005	1979	1979	1996	2004	1987	1980	1980
MIN	3.85	5.39	6.15	1.50	5.48	5.02	3.46	3.32	3.61	3.05	3.31	3.53
(WY)	1974	1989	1976	1976	1981	1987	1981	1976	1976	1976	1981	1981

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1974-2005

ANNUAL TOTAL	52869.4		56291			
ANNUAL MEAN	144		154		105	
HIGHEST ANNUAL MEAN					243	
LOWEST ANNUAL MEAN					8.54	
HIGHEST DAILY MEAN	1710	Jun 18	1690	Jan 28	1980	Nov 29
LOWEST DAILY MEAN	9.0	May 28	11	Dec 14	0.00	Aug 25
ANNUAL SEVEN-DAY MINIMUM	9.8	Sep 10	13	Dec 14	1.5	Jun 11
MAXIMUM PEAK FLOW			1840	Jan 10	2310	Sep 19
MAXIMUM PEAK STAGE			5.33	Jan 10	27.74	Sep 19
INSTANTANEOUS LOW FLOW					0.00	Aug 25
10 PERCENT EXCEEDS	432		306		296	
50 PERCENT EXCEEDS	19		20		18	
90 PERCENT EXCEEDS	12		14		6.3	

e Estimated.

03229500 Big Walnut Creek at Rees, Ohio

LOCATION.—Latitude 39°51'24", longitude 82°57'26", in NE ¼ sec. 26, T.4 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on Reese Road, 0.5 mi southwest of Reese, Ohio, 4.2 mi downstream from Alum Creek, and 10.5 mi upstream from mouth.

DRAINAGE AREA.—544 mi².

PERIOD OF RECORD.—August 1921 to December 1935, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.—WSP 1053: 1929, 1933(M), 1945. WSP 1305: 1923(M), 1925-26(M).

GAGE.—Water-stage recorder. Datum of gage is 698.20 ft above sea level. Aug. 18, 1921-Oct. 23, 1927, nonrecording gage at site 0.3 mi upstream at datum 2.00 ft higher prior to Oct. 1, 1924, at present datum thereafter.

REMARKS.—Records fair. Flow regulated by Hoover Reservoir 26 mi upstream and Alum Creek Lake, 30 mi upstream since Aug. 1973. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 59,800 ft³/s Jan. 22, 1959, gage height, 22.03 ft (from highwater mark in well), from rating curve extended above 13,000 ft³/s on basis of contracted-opening measurement of peak flow; minimum, 5 ft³/s Sept. 4, 5, 10-12, 1925; minimum daily since 1956, 9.4 ft³/s Sept. 13, 1964.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	540	1310	1240	1830	754	877	553	164	1360	83	878
2	122	619	558	1010	1800	526	2130	443	145	325	77	342
3	183	784	329	4240	1860	437	3430	379	130	176	80	204
4	171	825	252	8400	1840	407	2060	328	129	140	74	152
5	276	713	210	7500	1590	414	1160	255	124	244	275	127
6	296	332	199	14000	1570	548	719	237	128	390	343	117
7	290	249	308	10000	1670	577	581	223	119	168	140	106
8	299	216	406	3980	2970	681	520	215	213	134	105	106
9	325	160	490	2220	2880	635	403	202	199	140	107	106
10	339	123	1190	1340	2600	548	307	191	147	132	90	103
11	336	154	506	3510	1460	508	225	183	210	110	90	98
12	325	607	381	11700	715	414	202	363	127	100	88	97
13	519	281	296	6050	555	372	200	192	119	138	78	92
14	678	177	242	6410	630	346	207	563	115	143	196	91
15	804	148	206	2870	1080	295	171	452	120	118	125	88
16	578	152	193	1460	1070	237	154	235	115	285	154	420
17	504	248	178	1660	1040	199	145	170	110	724	121	352
18	1110	615	167	1450	949	184	146	154	106	206	91	141
19	1580	552	162	1350	565	233	148	242	98	247	129	105
20	635	687	133	1320	502	470	132	1850	99	153	97	164
21	524	388	145	1280	716	267	553	597	99	196	218	121
22	481	260	170	1210	588	222	371	365	97	219	111	101
23	497	218	1640	1200	500	701	2020	348	95	124	83	253
24	834	396	1000	1200	462	912	2190	345	92	103	75	921
25	601	543	419	1170	460	918	2780	272	96	110	70	353
26	513	300	284	1570	406	1280	2680	259	226	304	70	945
27	552	216	202	1290	401	965	2700	207	123	157	103	598
28	571	361	195	1730	426	3610	2020	240	159	162	291	233
29	556	289	273	1840	---	2780	1120	339	389	109	836	383
30	629	261	616	1860	---	1580	795	178	981	91	1010	250
31	561	---	2060	1830	---	1110	---	316	---	86	4130	---
TOTAL	15780	11414	14720	107890	33135	23130	31146	10896	5074	7094	9540	8047
MEAN	509	380	475	3480	1183	746	1038	351	169	229	308	268
MAX	1580	825	2060	14000	2970	3610	3430	1850	981	1360	4130	945
MIN	91	123	133	1010	401	184	132	154	92	86	70	88
(+)	111	99	108	109	105	98	101	106	144	146	152	136

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974-2005, BY WATER YEAR (WY)

MEAN	233	368	500	640	683	742	711	601	536	357	287	258
MAX	951	1398	2110	3480	1747	1688	1467	2057	1657	1313	1566	1814
(WY)	1987	1986	1991	2005	1990	1984	1979	1996	1997	1990	1980	1979
MIN	57.4	47.8	111	115	110	121	130	63.3	64.0	84.7	52.8	57.3
(WY)	1995	1992	1988	1977	1992	1983	1976	1976	1988	1991	1993	1985

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974-2005	
ANNUAL TOTAL	264686		277866			
ANNUAL MEAN	723 (+114)		761 (+118)		611≠	
HIGHEST ANNUAL MEAN					761	
LOWEST ANNUAL MEAN					221	
HIGHEST DAILY MEAN	12300	Jan 5	14000	Jan 6	14000	Sep 15
LOWEST DAILY MEAN	91	Sep 7	70	Aug 25	22	Jul 10
ANNUAL SEVEN-DAY MINIMUM	100	Sep 25	86	Jul 29	25	Jul 4
MAXIMUM PEAK FLOW			15900	Jan 6	21700	Sep 15
MAXIMUM PEAK STAGE			16.60	Jan 6	17.75	Sep 15
INSTANTANEOUS LOW FLOW					22	Jul 10
10 PERCENT EXCEEDS	1700		1760		1230	
50 PERCENT EXCEEDS	359		325		195	
90 PERCENT EXCEEDS	134		106		61	

(+) Average diversion by City of Columbus Municipal Water Supply.

≠ Adjusted for diversion

03230310 Little Darby Creek at West Jefferson, Ohio

LOCATION.—Latitude 39°57'04", longitude 83°16'10", Madison County, Hydrologic Unit 05060001, at bridge on Middle Pike, 0.4 mi north of West Jefferson, Ohio, and 7.2 mi upstream from Big Darby Creek.

DRAINAGE AREA.—162 mi².

PERIOD OF RECORD.—October 1992 to current year.

GAGE.—Water-stage recorder. Datum of gage is 785 ft above sea level. Prior to 1992, low-flow partial-record site.

REMARKS.—Records fair.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	17	221	1590	106	182	297	303	95	63	9.0	75
2	9.2	18	293	1050	100	175	490	246	91	55	8.2	38
3	8.8	19	193	1140	97	151	1140	207	90	46	7.6	21
4	8.4	23	145	2390	93	142	643	177	87	37	6.8	15
5	8.5	41	116	3040	89	144	373	155	82	33	8.2	11
6	8.7	36	100	6060	97	187	276	145	79	31	10	9.5
7	8.3	32	105	4170	149	356	233	138	84	29	11	8.0
8	8.0	26	140	1750	711	304	211	129	170	26	11	7.1
9	8.1	22	156	1160	1000	209	182	119	318	23	8.5	6.4
10	8.4	19	211	772	656	171	166	116	194	21	8.5	6.1
11	8.3	20	188	966	409	157	146	109	241	19	7.0	5.9
12	8.2	54	150	3930	287	146	137	118	196	18	6.4	6.2
13	9.3	59	128	3190	249	129	133	130	152	18	6.5	4.9
14	11	46	104	2110	250	113	118	230	138	20	7.4	4.6
15	13	34	88	1360	301	105	107	450	138	20	6.9	4.4
16	15	33	82	700	274	102	99	270	114	22	7.9	9.1
17	13	34	80	483	261	101	95	190	95	24	9.9	13
18	26	64	77	362	217	99	95	158	84	22	12	21
19	49	89	77	300	179	98	93	e139	76	19	12	14
20	31	121	52	233	160	102	91	e800	70	17	9.3	14
21	26	104	73	196	186	97	204	906	65	15	11	11
22	20	80	74	173	215	93	355	417	62	14	7.2	9.5
23	17	67	77	151	184	196	1140	293	58	13	5.1	10
24	26	68	67	175	167	281	2000	222	52	13	4.6	36
25	23	98	67	148	153	254	1390	178	50	12	4.1	174
26	26	107	63	129	140	544	849	152	49	15	3.7	149
27	23	85	59	139	130	450	814	136	52	13	3.8	232
28	20	88	55	112	136	965	593	126	85	14	4.7	137
29	18	82	59	129	---	1500	399	118	82	12	5.2	81
30	18	82	92	120	---	740	332	108	64	12	20	54
31	19	---	760	116	---	439	---	105	---	10	85	---
TOTAL	505.1	1668	4152	38344	6996	8732	13201	7090	3213	706	328.5	1187.7
MEAN	16.3	55.6	134	1237	250	282	440	229	107	22.8	10.6	39.6
MAX	49	121	760	6060	1000	1500	2000	906	318	63	85	232
MIN	8.0	17	52	112	89	93	91	105	49	10	3.7	4.4
CFSM	0.10	0.34	0.83	7.64	1.54	1.74	2.72	1.41	0.66	0.14	0.07	0.24
IN.	0.12	0.38	0.95	8.80	1.61	2.01	3.03	1.63	0.74	0.16	0.08	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993-2005, BY WATER YEAR (WY)

	2004	1994	2002	2005	2004	2003	1996	1996	1997	1993	1995	2003
MEAN	35.1	99.7	153	317	210	261	295	305	237	123	56.0	43.3
MAX	106	312	368	1237	319	506	493	845	673	701	335	377
(WY)	2004	1994	2002	2005	2004	2003	1996	1996	1997	1993	1995	2003
MIN	1.74	6.81	10.5	56.6	91.7	74.9	70.2	55.5	18.5	16.8	3.50	0.11
(WY)	2000	2000	2000	2001	1995	2001	1997	1999	1999	1999	1999	1999

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1993-2005	
ANNUAL TOTAL	74449.0		86123.3			
ANNUAL MEAN	203		236		178	
HIGHEST ANNUAL MEAN					256	
LOWEST ANNUAL MEAN					91.1	
HIGHEST DAILY MEAN	4000	Jan 5	6060	Jan 6	6060	Jan 6
LOWEST DAILY MEAN	7.8	Sep 28	3.7	Aug 26	0.00	Sep 5
ANNUAL SEVEN-DAY MINIMUM	8.3	Oct 6	4.5	Aug 23	0.00	Sep 12
MAXIMUM PEAK FLOW			6560	Jan 6a	6560	Jan 6
MAXIMUM PEAK STAGE			15.67	Jan 6	15.67	Jan 6
INSTANTANEOUS LOW FLOW			3.7	Aug 26	0.00	Sep 4
ANNUAL RUNOFF (CFSM)	1.26		1.46		1.10	
ANNUAL RUNOFF (INCHES)	17.10		19.78		14.91	
10 PERCENT EXCEEDS	503		463		428	
50 PERCENT EXCEEDS	94		93		73	
90 PERCENT EXCEEDS	14		8.5		8.9	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03230450 Hellbranch Run near Harrisburg, Ohio

LOCATION.—Latitude 39°50'52", longitude 83°09'26", Franklin County, Hydrologic Unit 05060001, on right downstream side of State Route 665 bridge, 2.5 mi upstream from mouth, 2.7 mi north-northwest of Harrisburg, Ohio and 1.5 mi east of Darbydale, Ohio.

DRAINAGE AREA.—35.8 mi².

Water-Discharge Records

PERIOD OF RECORD.—October 1992 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 813 ft above sea level (from topographic map). Prior to Sept. 2001 at site 1.5 mi downstream at elevation 28 ft lower.

REMARKS.—Records fair. Water-quality data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	3.3	6.6	181	316	14	45	63	45	9.8	30	0.62	40			
2	3.1	8.0	84	158	13	30	257	35	9.2	16	0.39	19			
3	3.2	19	50	683	13	23	255	28	8.7	8.7	0.26	12			
4	3.1	23	40	722	13	21	110	23	8.1	5.8	0.19	9.2			
5	2.9	25	28	1070	13	23	73	19	7.5	4.5	0.22	7.0			
6	2.7	17	24	1540	17	37	52	18	7.1	4.7	0.22	5.7			
7	2.5	13	35	802	42	36	45	17	6.4	3.9	0.10	4.5			
8	2.3	9.8	41	426	250	29	39	15	50	3.0	0.13	4.1			
9	2.1	7.6	70	246	160	21	30	14	40	2.3	0.06	4.0			
10	1.9	6.6	148	159	103	18	25	13	17	2.1	0.02	3.5			
11	1.8	7.3	74	371	67	18	22	13	16	1.9	0.00	2.6			
12	2.0	56	50	1230	49	17	20	18	11	1.5	0.00	2.4			
13	3.2	30	36	508	44	15	18	15	9.4	1.6	0.00	1.9			
14	4.2	18	25	491	62	13	15	31	7.9	2.6	0.00	1.4			
15	11	13	21	197	77	12	14	41	6.6	3.9	0.00	1.1			
16	15	14	18	124	59	11	12	23	5.4	3.0	0.00	2.1			
17	8.7	27	16	89	45	12	11	17	4.7	24	0.00	11			
18	65	123	14	63	33	11	11	14	4.2	9.6	0.00	6.5			
19	127	87	13	51	26	12	12	16	3.6	6.0	0.00	4.7			
20	47	92	11	42	26	20	11	199	3.2	4.8	1.5	5.9			
21	26	53	11	35	43	17	20	87	2.9	4.1	3.1	6.8			
22	15	37	10	32	34	15	23	53	2.8	2.8	2.9	5.1			
23	13	30	31	25	27	77	357	39	3.2	2.0	1.3	5.0			
24	39	52	31	24	24	65	308	28	2.5	1.5	0.59	27			
25	24	64	26	23	22	77	199	22	2.0	1.3	0.23	36			
26	14	37	18	23	21	128	120	18	1.8	1.6	0.06	34			
27	11	27	13	17	18	73	153	15	1.8	1.5	0.10	29			
28	9.1	43	12	16	24	534	87	15	2.2	1.8	0.00	15			
29	8.6	34	16	16	---	322	62	13	14	1.9	4.9	14			
30	8.7	40	76	16	---	137	57	12	13	1.6	13	13			
31	8.1	---	508	15	---	87	---	11	---	1.1	96	---			
TOTAL	488.5	1019.9	1731	9530	1339	1956	2481	927	282.0	161.1	125.89	333.5			
MEAN	15.8	34.0	55.8	307	47.8	63.1	82.7	29.9	9.40	5.20	4.06	11.1			
MAX	127	123	508	1540	250	534	357	199	50	30	96	40			
MIN	1.8	6.6	10	15	13	11	11	11	1.8	1.1	0.00	1.1			
CFSM	0.43	0.92	1.51	8.31	1.29	1.71	2.24	0.81	0.25	0.14	0.11	0.30			
IN.	0.49	1.03	1.74	9.58	1.35	1.97	2.49	0.93	0.28	0.16	0.13	0.34			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993-2005, BY WATER YEAR (WY)															
MEAN	6.01	17.5	37.3	88.6	51.2	59.0	73.2	64.6	46.7	19.2	14.0	10.5			
MAX	16.0	46.2	82.0	307	85.8	109	157	187	142	82.1	65.4	97.3			
(WY)	1996	1993	1997	2005	2004	1993	1996	1996	1997	1993	1995	2003			
MIN	0.00	0.01	1.95	10.9	23.6	13.8	12.7	5.40	0.36	0.30	0.00	0.00			
(WY)	1995	2000	2000	2001	1995	2001	1997	1999	1999	1999	1999	1999			
SUMMARY STATISTICS															
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1993-2005			
20689.2				56.5				20374.89							
ANNUAL MEAN				56.5				55.8				40.6			
HIGHEST ANNUAL MEAN												66.8			
LOWEST ANNUAL MEAN												22.9			
HIGHEST DAILY MEAN				1430				Jan 5				1540			
LOWEST DAILY MEAN				1.8				Oct 11				0.00			
ANNUAL SEVEN-DAY MINIMUM				2.2				Oct 6				0.00			
MAXIMUM PEAK FLOW												1700			
MAXIMUM PEAK STAGE												9.85			
INSTANTANEOUS LOW FLOW												0.00			
ANNUAL RUNOFF (CFSM)				1.53				1.51				1.10			
ANNUAL RUNOFF (INCHES)				20.80				20.49				14.91			
10 PERCENT EXCEEDS				106				106				89			
50 PERCENT EXCEEDS				26				16				12			
90 PERCENT EXCEEDS				4.1				1.7				0.18			

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

03230450 Hellbranch Run near Harrisburg, Ohio—Continued
Water-Quality Records

PERIOD OF RECORD.—May 1992 to current year.

PERIOD OF DAILY RECORD.—

SUSPENDED-SEDIMENT DISCHARGE: October 1992 to current year.

INSTRUMENTATION.—Refrigerated water-quality pumping sampler since Oct. 1992.

REMARKS.—Water-quality samples were collected by equal-width-increment (EWI) sampling method, approximately once per month. Suspended-sediment samples and seasonal-event water-quality samples were collected by pumping sampler. Pumped samples were collected for every 0.5-ft rise and 1 ft drop in stage. Sediment samples were also collected at a single vertical, approximately once per week. Suspended-sediment loads were calculated using the mean-interval method (Porterfield, George, 1972, Computation of Fluvial-Sediment Discharge: U.S. Geological Survey, Techniques of Water-Resources Investigations, book 3, chap. C3, 66 p.). For days with unsteady concentration, discharge, or both, the day was subdivided into quarter-hour intervals and the daily load was calculated by summing the loads for these quarter-hour intervals. This required interpolation between measured and estimated concentrations.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATIONS: Maximum daily mean, 819 mg/L, June 29, 1998; minimum daily mean, 0.0 mg/L, on several days during 2004.

SEDIMENT LOADS: Maximum daily, 4,420 tons, June 29, 1998; minimum daily, 0.00 ton, on many days during 1993-1995, 1998, 1999, 2002, and on several days during 1996, 1997, 2000, 2004, and 2005.

EXTREMES FOR CURRENT YEAR.—

SEDIMENT CONCENTRATIONS: Maximum daily mean, 493 mg/L, March 28; minimum daily mean, 1 mg/L, on several days during the year.

SEDIMENT LOADS: Maximum daily, 1,000 tons, Jan. 6; minimum daily, 0.00 ton, on several days during the year.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[--, no data; e, estimated]

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Sediment discharge (tons/day)
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	3.3	1	0.01	6.6	3	0.06	181	109	56	316	100	92
2	3.1	1	0.01	8.0	5	0.12	84	42	9.9	158	48	21
3	3.2	2	0.01	19	9	0.46	50	23	3.2	683	229	474
4	3.1	2	0.01	23	10	0.70	40	13	1.5	722	97	202
5	2.9	2	0.02	25	10	0.68	28	10	0.79	1070	168	519
6	2.7	2	0.01	17	8	0.36	24	8	0.48	1540	238	1000
7	2.5	2	0.01	13	7	0.26	35	13	1.4	802	94	207
8	2.3	2	0.01	9.8	7	0.19	41	10	1.1	426	76	88
9	2.1	2	0.01	7.6	7	0.14	70	62	25	246	59	40
10	1.9	1	0.01	6.6	6	0.11	148	78	35	159	45	20
11	1.8	1	0.01	7.3	7	0.16	74	32	6.6	371	177	375
12	2.0	1	0.01	56	44	6.5	50	25	3.4	1230	269	903
13	3.2	1	0.01	30	18	1.6	36	20	2.0	508	121	170
14	4.2	1	0.01	18	10	0.50	25	19	1.3	491	110	150
15	11	1	0.04	13	6	0.20	21	20	1.1	197	80	43
16	15	2	0.06	14	5	0.17	18	20	0.95	124	65	22
17	8.7	2	0.04	27	42	8.4	16	20	0.85	89	52	13
18	65	64	31	123	93	36	14	21	0.79	63	40	6.9
19	127	61	24	87	41	9.6	13	21	0.74	51	34	4.6
20	47	31	4.0	92	25	6.3	11	18	0.52	42	28	3.1
21	26	22	1.6	53	17	2.5	11	14	0.40	35	22	2.0
22	15	12	0.52	37	13	1.3	10	9	0.26	32	15	1.3
23	13	6	0.27	30	11	0.85	31	17	1.7	25	11	0.73
24	39	7	0.69	52	32	6.2	31	13	1.1	24	9	0.58
25	24	4	0.28	64	26	4.9	26	10	0.70	23	7	0.45
26	14	4	0.14	37	12	1.2	18	9	0.43	23	7	0.40
27	11	3	0.08	27	7	0.52	13	8	0.27	17	6	0.29
28	9.1	2	0.05	43	15	1.7	12	6	0.20	16	6	0.25
29	8.6	2	0.05	34	9	0.81	16	7	0.34	16	5	0.23
30	8.7	2	0.05	40	31	6.3	76	39	12	16	5	0.22
31	8.1	2	0.04	---	---	---	508	223	306	15	5	0.19
TOTAL	488.5	---	63.06	1019.9	---	98.79	1731	---	476.02	9530	---	4360.24

03230450 Hellbranch Run near Harrisburg, Ohio—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(00061), USGS National Water Information System parameter code; cfs, cubic feet per second; Sampling code*, 10 means stream cross-section sample collected by equal-width-increment method (EWI), 50 means point sample collected from refrigerated automatic sampler; mg/L, milligrams per liter; std, standard; $\mu\text{S}/\text{cm}$, microsiemens per centimeter; deg C, degrees Celsius; --, no data]

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code* (82398)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd, field, std units (00400)	Specific conductance, water, unf, $\mu\text{S}/\text{cm}$ 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)
Oct. 19	1250	111	10	--	--	417	12.5	11.0	--	--
Nov. 1	1205	6.6	10	9.8	8.0	847	16.0	12.0	78.6	7.33
Jan. 3	1230	963	10	--	--	306	14.5	10.5	--	--
Jan. 11	1845	572	50	--	--	--	--	--	30.8	5.97
Jan. 11	2030	896	50	--	--	--	--	--	23.9	5.85
Jan. 11	2130	1130	50	--	--	--	--	--	17.5	4.67
Jan. 12	0730	1300	50	--	--	--	--	--	13.7	4.38
Jan. 12	2345	924	50	--	--	--	--	--	17.7	5.22
Jan. 13	1100	419	50	--	--	--	--	--	22.6	6.30
Jan. 15	2000	157	50	--	--	--	--	--	31.5	6.82
Feb. 15	1150	74	10	11.3	8.0	688	15.5	6.0	79.9	6.33
Mar. 16	1230	11	10	16.0	8.7	831	6.5	5.0	95.6	2.49
Mar. 28	0615	192	50	--	--	--	--	--	59.3	5.24
Mar. 28	0715	353	50	--	--	--	--	--	42.9	4.36
Mar. 28	0915	593	50	--	--	--	--	--	30.0	4.30
Mar. 28	1515	858	50	--	--	--	--	--	25.1	5.32
Mar. 29	0700	365	50	--	--	--	--	--	32.9	6.36
Mar. 31	0445	95	50	--	--	--	--	--	--	6.04
Apr. 19	1235	12	10	11.0	8.3	786	27.0	16.5	80.1	2.04
Apr. 25	1205	190	10	--	--	467	14.0	8.0	--	--
May 17	1335	17	10	11.4	8.4	716	19.0	14.0	60.5	4.68
June 13	1300	9.3	10	6.9	8.0	784	28.0	21.5	--	--
July 27	1045	1.6	10	--	7.9	719	22.0	23.0	82.4	7.06
Aug. 30	1055	4.7	10	6.6	7.9	584	22.0	21.0	74.6	5.03
Sept. 27	1155	28	10	7.9	8.1	542	19.5	19.5	48.4	6.09

03230450 Hellbranch Run near Harrisburg, Ohio—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(00945), USGS National Water Information System parameter code; mg/L, milligrams per liter; deg C, degrees Celsius; mm, millimeter; --, no data; <, concentration or value reported is less than that indicated]

Date	Sulfate water, fltrd, mg/L (00945)	Residue, total at 105 deg C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite, water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	Suspnd. sediment, sieve diameter, percent <.063 mm (70331)	Suspended sediment concentration, mg/L (80154)
Oct. 19	--	--	--	--	--	--	--	--	--	40
Nov. 1	50.7	<2	.45	.04	.53	.03	.028	.076	--	5
Jan. 3	--	--	--	--	--	--	--	--	83	364
Jan. 11	22.1	281	.99	.11	1.18	<.02	.049	.415	--	479
Jan. 11	17.2	344	2.0	.07	.93	<.02	.072	.503	--	424
Jan. 11	12.9	571	2.2	.07	.68	<.02	.069	.666	--	595
Jan. 12	11.9	279	1.1	.08	.61	<.02	.082	.424	--	287
Jan. 12	16.6	184	.54	.07	.80	<.02	.079	.333	--	133
Jan. 13	20.5	105	.70	.06	.92	<.02	.070	.257	--	104
Jan. 15	27.1	83	.62	.05	1.21	<.02	.068	.200	--	73
Feb. 15	32.4	29	.46	.09	2.17	<.02	.035	.133	--	32
Mar. 16	53.7	2	.25	.04	.89	<.02	<.010	.023	--	13
Mar. 28	33.4	569	2.6	.18	2.02	<.02	<.010	.484	--	630
Mar. 28	22.8	1050	4.1	.25	1.73	0.03	.020	1.01	--	1130
Mar. 28	17.8	835	4.4	.19	1.47	<.02	.022	1.04	--	862
Mar. 28	14.6	652	2.8	.15	1.11	<.02	.052	.789	--	569
Mar. 29	20.3	477	1.8	.15	1.64	<.02	.083	.561	--	212
Mar. 31	17.9	118	.64	.09	1.76	--	.036	.250	--	77
Apr. 19	45.2	3	.44	.05	.80	<.02	<.010	.028	--	2
Apr. 25	--	--	--	--	--	--	--	--	--	41
May 17	39.8	<2	.48	.05	3.77	.05	.021	.053	--	6
June 13	--	--	--	--	--	--	--	--	--	10
July 27	62.7	5	.56	.07	.70	<.02	.110	.133	--	3
Aug. 30	52.5	6	.57	.04	.83	<.02	.099	.133	--	8
Sept. 27	53.9	8	.69	.05	1.49	<.02	.070	.105	--	9

03230500 Big Darby Creek at Darbyville, Ohio

LOCATION.—Latitude 39°42'02," longitude 83°06'37", Pickaway County, Hydrologic Unit 05060001, on right bank at upstream side of State Highway 316, 0.4 mi northeast of Darbyville, 0.4 mi upstream from Lizzard Run, and 3.0 mi downstream from Greenbrier Creek.

DRAINAGE AREA.—534 mi².

PERIOD OF RECORD.—October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.

REVISED RECORDS.—WSP 1083: 1922(M), 1924(M), 1927(M), 1933(M), 1938(M). WSP 1305: 1928-31(M), 1934(M), 1945(M). WSP 1505: 1932(M). WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 713.69 ft above sea level. Prior to Mar. 17, 1940, nonrecording gage at same site and datum.

REMARKS.—Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	87	1000	5080	271	482	939	835	202	446	18	556
2	61	92	1250	5710	246	585	1620	650	184	305	15	406
3	58	104	823	4270	257	437	4420	516	170	216	13	219
4	48	110	566	8220	248	395	2910	428	164	176	15	126
5	43	145	423	11400	234	381	1290	366	156	143	13	79
6	42	184	346	16100	251	438	857	330	137	127	18	56
7	42	162	343	19200	357	1050	682	311	136	107	19	48
8	41	128	425	9170	2080	1180	590	290	179	88	15	38
9	42	108	634	4710	3810	693	497	264	805	76	23	27
10	39	94	1050	3030	2470	479	427	246	690	70	28	22
11	39	86	787	2830	1480	416	378	228	751	60	21	19
12	38	163	607	9710	920	382	348	233	619	53	17	16
13	38	220	473	13300	734	345	330	231	481	60	13	13
14	43	179	370	9340	744	311	298	277	412	57	11	11
15	49	152	290	5830	1010	287	267	602	367	61	12	12
16	54	140	247	2580	944	266	243	550	362	57	13	12
17	53	138	231	1750	865	255	219	367	298	80	9.7	16
18	109	372	219	1300	773	246	213	294	254	92	11	139
19	592	599	205	1070	546	241	215	266	232	81	22	197
20	226	709	163	902	455	282	205	1880	202	76	44	135
21	159	578	165	766	510	271	228	2280	184	56	34	94
22	130	407	193	663	719	259	679	1090	177	45	26	67
23	102	319	259	556	578	430	2590	679	162	36	18	51
24	151	364	236	472	473	875	6380	499	145	31	12	195
25	145	484	214	519	426	740	5360	385	133	28	9.5	690
26	137	674	209	469	388	1520	2850	323	124	25	6.4	844
27	128	444	176	401	355	1640	2510	282	112	24	6.0	1070
28	108	393	167	325	355	3740	2080	261	119	28	6.4	811
29	94	382	168	340	---	5840	1190	239	440	24	8.2	457
30	86	366	311	330	---	2790	908	214	297	21	19	324
31	81	---	2260	294	---	1470	---	213	---	19	284	---
TOTAL	3017	8383	14810	140637	22499	28726	41723	15629	8694	2768	780.2	6750
MEAN	97.3	279	478	4537	804	927	1391	504	290	89.3	25.2	225
MAX	592	709	2260	19200	3810	5840	6380	2280	805	446	284	1070
MIN	38	86	163	294	234	241	205	213	112	19	6.0	11
CFSM	0.18	0.52	0.89	8.50	1.50	1.74	2.60	0.94	0.54	0.17	0.05	0.42
IN.	0.21	0.58	1.03	9.80	1.57	2.00	2.91	1.09	0.61	0.19	0.05	0.47
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)												
MEAN	110	261	478	758	779	927	844	606	464	251	154	106
MAX	1223	1745	2287	4537	2146	2758	2190	2766	2228	1868	1216	1652
(WY)	1927	1986	1991	2005	1975	1963	1957	1996	1997	1993	1980	1979
MIN	3.91	13.6	18.5	23.4	37.2	84.0	133	42.6	14.9	9.08	9.82	6.43
(WY)	1964	1954	1964	1945	1934	1931	1925	1934	1934	1934	1930	1964
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1922-2005		
ANNUAL MEAN				240514			294416.2			477		
HIGHEST ANNUAL MEAN				657			807			840		
LOWEST ANNUAL MEAN										79.1		
HIGHEST DAILY MEAN				13000			19200			38400		
LOWEST DAILY MEAN				38			6.0			1.4		
ANNUAL SEVEN-DAY MINIMUM				40			9.5			2.0		
MAXIMUM PEAK FLOW							21300			49000		
MAXIMUM PEAK STAGE							15.63			17.94		
INSTANTANEOUS LOW FLOW							4.6			1.4		
ANNUAL RUNOFF (CFSM)				1.23			1.51			0.89		
ANNUAL RUNOFF (INCHES)				16.75			20.51			12.13		
10 PERCENT EXCEEDS				1450			1560			1140		
50 PERCENT EXCEEDS				314			259			163		
90 PERCENT EXCEEDS				55			24			26		

^a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

03230800 Deer Creek at Mt. Sterling, Ohio

LOCATION.—Latitude 39°42'54", longitude 83°15'26", Madison County, Hydrologic Unit 05060002, on left bank at downstream side of bridge on State Highway 56, 0.2 mi downstream from unnamed right bank tributary, 0.6 mi southeast of Mount Sterling, and 4.9 mi upstream from Duffs Fork.

DRAINAGE AREA.—228 mi².

PERIOD OF RECORD.—October 1966 to September 1981; October 1995 to current year.

REVISED RECORDS.—WDR OH-75-1: 1968(M).

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

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	159	702	2520	e110	273	536	426	91	487	17	118
2	14	178	548	1010	e108	231	1050	370	85	288	17	44
3	15	282	406	2130	e105	203	2020	329	85	148	16	26
4	14	297	339	4630	e105	189	880	293	82	102	15	18
5	12	324	298	5070	e110	189	596	261	76	82	14	15
6	11	304	278	9920	e115	258	480	244	71	69	15	12
7	10	291	305	3870	e150	325	425	236	66	59	17	12
8	10	267	387	1530	1210	349	389	223	114	53	17	10
9	10	240	421	1180	1160	235	342	205	1340	47	17	9.9
10	11	234	818	813	688	203	318	198	518	41	18	9.5
11	12	235	464	1100	457	195	294	188	509	37	18	9.1
12	13	337	328	6430	357	183	280	204	393	35	19	8.8
13	15	354	265	2840	335	161	278	194	299	35	20	9.2
14	18	287	200	2340	365	142	241	250	223	39	18	9.7
15	22	252	167	1060	441	134	216	414	167	37	22	11
16	21	244	155	632	374	130	203	333	136	37	23	11
17	22	262	145	470	330	128	197	256	113	39	23	14
18	64	276	e130	377	273	123	196	215	95	35	25	11
19	543	342	e100	344	228	111	191	208	82	34	24	8.6
20	339	467	e84	309	212	156	184	735	72	30	31	8.8
21	243	371	e90	277	290	146	183	639	67	28	27	12
22	191	300	e100	e190	281	127	199	338	63	26	28	9.8
23	176	267	122	e160	239	440	1560	259	57	24	27	7.3
24	303	292	118	e150	222	496	2470	203	52	22	24	8.5
25	290	433	105	e140	204	364	1400	159	50	20	23	16
26	222	337	103	e135	193	659	871	137	47	20	24	18
27	196	287	88	e130	181	527	1070	124	46	20	29	20
28	183	308	84	e125	194	3210	732	119	371	21	34	15
29	165	317	93	e120	---	3250	537	110	626	21	39	11
30	166	286	162	e115	---	1050	485	99	238	19	52	9.7
31	161	---	1530	e110	---	714	---	102	---	18	167	---
TOTAL	3489	8830	9135	50227	9037	14901	18823	8071	6234	1973	860	502.9
MEAN	113	294	295	1620	323	481	627	260	208	63.6	27.7	16.8
MAX	543	467	1530	9920	1210	3250	2470	735	1340	487	167	118
MIN	10	159	84	110	105	111	183	99	46	18	14	7.3
CFSM	0.49	1.29	1.29	7.11	1.42	2.11	2.75	1.14	0.91	0.28	0.12	0.07
IN.	0.57	1.44	1.49	8.19	1.47	2.43	3.07	1.32	1.02	0.32	0.14	0.08
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967-2005, BY WATER YEAR (WY)												
MEAN	58.0	155	277	375	356	418	402	371	285	115	100	79.3
MAX	180	743	641	1620	910	1239	786	1210	764	480	531	779
(WY)	1980	1973	1978	2005	1975	1978	1996	1996	1997	1973	1979	1979
MIN	6.29	9.67	15.7	10.0	111	107	58.5	29.2	17.0	12.9	13.7	3.73
(WY)	2000	1999	1977	1977	1978	2001	1976	1976	1999	1977	1999	1998
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1967-2005		
ANNUAL TOTAL				133231.5			132082.9					
ANNUAL MEAN				364			362			249		
HIGHEST ANNUAL MEAN										394		
LOWEST ANNUAL MEAN										82.7		
HIGHEST DAILY MEAN				10200 Jan 5			9920 Jan 6			10200 Jan 5		
LOWEST DAILY MEAN				4.9 Sep 21			7.3 Sep 23			0.89 Oct 8		
ANNUAL SEVEN-DAY MINIMUM				10 Sep 19			9.4 Sep 18			1.2 Oct 4		
MAXIMUM PEAK FLOW							11100 Jan 6a			11700 Jan 5		
MAXIMUM PEAK STAGE							12.58 Jan 6			12.76 Jan 5		
INSTANTANEOUS LOW FLOW										0.91 Sep 19		
ANNUAL RUNOFF (CFSM)				1.60			1.59			1.09		
ANNUAL RUNOFF (INCHES)				21.74			21.55			14.83		
10 PERCENT EXCEEDS				665			671			552		
50 PERCENT EXCEEDS				232			176			102		
90 PERCENT EXCEEDS				23			15			17		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03231500 Scioto River at Chillicothe, Ohio

LOCATION.—Latitude 39°20'29", longitude 82°58'16", Ross County, Hydrologic Unit 05060002, on right bank at north end of Chillicothe, Ohio, 1,400 ft downstream from Bridge Street bridge, 7.4 mi upstream from Paint Creek, and 15.4 mi downstream from Deer Creek.

DRAINAGE AREA.—3,849 mi².

PERIOD OF RECORD.—December 1913 to September 1914 (gage heights and discharge measurements only). October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected in this vicinity since 1907 are contained in reports of the National Weather Service.

REVISED RECORDS.—WSP 803: 1929(M). WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 594.05 ft above sea level. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft upstream at different datum; Apr. 1, 1921-Aug. 6, 1930, nonrecording gage, at site 1,400 ft upstream at present datum; Aug. 7, 1930-Sept. 30, 1969, water-stage recorder 900 ft upstream at same datum.

REMARKS.—Records fair. Flow regulated by 6 reservoirs 36 mi to 91 mi upstream from station. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 26, 1913, reached a stage of 39.8 ft; discharge, 260,000 ft³/s (estimated by Franklin County Conservancy District).

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	735	1560	6190	13600	6410	3720	8570	8580	1900	3270	738	8310
2	782	1490	8330	18200	5580	4510	7630	6440	1680	4590	753	4750
3	841	1640	6690	20700	4830	4190	15200	5020	1580	3180	733	3410
4	919	2310	4940	25200	4470	3740	19900	4000	1490	1910	690	2230
5	897	3060	3830	36800	4220	3300	15400	3420	1420	1480	635	1650
6	866	2600	3060	50600	4080	3440	11800	2950	1380	1430	812	1260
7	880	2150	2580	63400	4460	3760	8290	2670	1340	1600	1400	1030
8	863	2790	3220	64400	7680	5700	5640	2480	1320	1210	912	908
9	870	2410	3040	47300	16000	6140	4350	2310	1630	1120	744	825
10	878	1810	6430	32700	18900	4720	3570	2220	3100	1020	737	776
11	875	1530	6630	26900	18400	3900	3160	2160	2800	969	764	729
12	877	1950	4610	33500	14800	3310	3110	2110	2950	867	737	690
13	889	2980	4050	39600	9640	3020	3080	2330	2290	879	669	642
14	1210	2070	3810	56100	7060	2790	2810	2290	2350	978	612	599
15	1420	1720	3320	52300	7850	2700	2540	3890	2040	1190	718	576
16	1680	1600	2580	43200	8180	2460	2290	3370	1710	1010	739	571
17	1430	1560	2200	32200	7690	2180	2050	3010	1510	1280	726	1060
18	1370	2340	2070	25700	7760	2100	2010	2660	1390	1970	929	1220
19	6630	3900	2000	21200	6790	2400	1980	2370	1270	1290	1000	962
20	5230	5100	1930	17400	5060	2850	1990	3640	1180	1430	867	1300
21	2880	4220	1730	15000	4570	2840	1980	7680	1080	1190	750	1240
22	2260	3050	1790	13400	4700	2320	2850	5110	1060	1070	886	999
23	1770	3430	4110	12300	5250	2720	4820	3820	1020	1330	746	821
24	2020	3470	7750	11300	5620	4450	14200	3130	966	1070	612	953
25	2510	4890	4550	10800	4580	4850	18900	2650	902	839	547	4390
26	2040	4110	2870	10800	3990	5100	20300	2260	895	745	541	3300
27	1820	4680	2400	11000	3550	6690	18600	2080	1250	972	517	5220
28	1770	5220	2150	10400	3070	12500	18800	1950	959	951	536	5640
29	1680	5090	2120	9390	---	23200	15900	1940	977	876	803	4690
30	1590	3650	2680	7120	---	22900	12400	2010	2170	777	1730	4000
31	1660	---	5800	6750	---	14500	---	1850	---	760	4600	---
TOTAL	52142	88380	119460	839260	205190	173000	254120	102400	47609	43253	28183	64751
MEAN	1682	2946	3854	27070	7328	5581	8471	3303	1587	1395	909	2158
MAX	6630	5220	8330	64400	18900	23200	20300	8580	3100	4590	4600	8310
MIN	735	1490	1730	6750	3070	2100	1980	1850	895	745	517	571

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921-2005 BY WATER YEAR (WY)

MEAN	1021	2042	3581	5508	5767	7031	6120	4333	3387	2152	1451	1074
MAX	8068	12130	14120	30110	13700	19450	14640	18590	11080	9507	8263	10180
(WY)	1927	1973	1991	1937	1951	1963	1957	1996	2004	1992	1980	1979
MIN	192	210	222	312	386	1041	1136	440	378	303	214	207
(WY)	1954	1935	1935	1931	1934	1931	1941	1934	1925	1930	1930	1953

	SUMMARY STATISTICS		FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921-2005		
ANNUAL TOTAL			1983486		2017748				
ANNUAL MEAN			5419		5528		3611		
HIGHEST ANNUAL MEAN							6217	1973	
LOWEST ANNUAL MEAN							883	1934	
HIGHEST DAILY MEAN			48400	Jan 7	64400	Jan 8	127000	Jan 23	1959
LOWEST DAILY MEAN			720	Sep 29	517	Aug 27	166	Sep 27	1944
ANNUAL SEVEN-DAY MINIMUM			766	Sep 26	615	Aug 23	174	Sep 21	1944
MAXIMUM PEAK FLOW					67700	Jan 8	144000	Jan 23	1959
MAXIMUM PEAK STAGE					20.89	Jan 8	32.50	Jan 23	1959
10 PERCENT EXCEEDS			13600		13800		9310		
50 PERCENT EXCEEDS			3140		2540		1540		
90 PERCENT EXCEEDS			1050		823		386		

03232000 Paint Creek near Greenfield, Ohio

LOCATION.—Latitude 39°22'45", longitude 83°22'32", Fayette County, Hydrologic Unit 05060003, on right bank at upstream side of bridge on State Highway 753, 0.6 mi upstream from Stone Run, 2 mi north of Greenfield, Ohio, and 3.0 mi downstream from Indian Creek.

DRAINAGE AREA.—249 mi².

PERIOD OF RECORD.—August 1926 to November 1935, October 1939 to September 1956; water years 1962-66 (occasional low-flow measurements), water years 1963-66 (annual maximums); October 1966 to September 1981; water years 1993-1995 (stage only); October 1995 to current year.

REVISED RECORDS.—WSP 743: 1926(M). WSP 758: 1926-33. WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 844.27 ft above sea level. Prior to Feb. 14, 1940, nonrecording gage; Feb. 14, 1940-June 3, 1955, water-stage recorder; June 4, 1955-Sept. 30, 1956, nonrecording gage, at same site at datum 1.00 ft higher.

REMARKS.—Records fair except for periods of estimated record and discharges less than 3 ft³/s, which are poor. Sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	9.0	101	956	2970	e75	206	624	416	72	96	3.9	51			
2	7.0	97	892	2680	e73	202	1540	334	69	85	3.6	36			
3	10	125	570	2480	e72	184	2430	263	69	114	3.3	34			
4	9.5	182	398	3550	e72	174	1490	217	72	72	2.8	16			
5	11	195	310	6930	e73	175	748	188	67	52	2.7	9.3			
6	8.8	171	267	10800	e77	188	499	170	64	40	3.0	5.3			
7	7.7	150	330	7670	e150	269	399	159	59	29	13	3.6			
8	6.6	124	375	3220	1560	482	331	149	66	24	11	3.0			
9	7.2	106	433	1960	2210	405	266	138	231	21	6.4	2.4			
10	6.7	94	1090	1300	1660	263	224	131	274	17	4.9	2.0			
11	6.5	90	929	2280	889	222	199	121	603	14	4.3	1.6			
12	6.9	253	587	4250	555	196	185	116	571	11	3.5	1.4			
13	9.7	219	426	4240	461	168	184	109	355	12	3.1	1.6			
14	14	174	317	3340	502	142	161	183	263	13	3.1	1.2			
15	20	147	248	1930	577	133	138	183	185	14	3.1	0.99			
16	27	129	216	1040	534	124	124	206	145	17	3.1	0.99			
17	13	122	197	634	451	120	116	165	114	16	3.1	1.2			
18	210	122	181	441	352	117	112	137	95	12	3.6	1.5			
19	925	488	171	398	276	117	107	126	81	10	3.6	1.9			
20	850	712	125	331	233	149	101	184	68	8.5	5.7	2.0			
21	419	489	153	267	230	160	98	205	62	7.6	3.6	3.6			
22	270	341	148	e170	229	152	106	189	56	7.9	2.3	2.6			
23	217	272	332	e130	221	303	1260	162	51	7.4	1.8	1.4			
24	451	553	315	e120	204	732	2540	141	46	7.0	1.7	1.5			
25	363	663	292	e110	186	514	2040	122	43	6.3	1.7	1.1			
26	254	423	e180	e100	173	446	1190	108	38	6.4	2.3	1.5			
27	192	313	e150	e96	159	512	1060	100	45	6.4	2.2	1.6			
28	155	300	e120	e90	167	3350	850	108	38	5.6	1.7	3.0			
29	132	267	e160	e86	---	5490	574	102	56	5.3	2.2	1.9			
30	123	277	736	e82	---	2780	460	89	52	4.7	4.7	1.4			
31	114	---	1980	e78	---	1050	---	78	---	4.5	80	---			
TOTAL	4855.6	7699	13584	63773	12421	19525	20156	5099	4010	746.6	195.0	196.58			
MEAN	157	257	438	2057	444	630	672	164	134	24.1	6.29	6.55			
MAX	925	712	1980	10800	2210	5490	2540	416	603	114	80	51			
MIN	6.5	90	120	78	72	117	98	78	38	4.5	1.7	0.99			
MED	20	188	315	1040	230	202	365	149	68	12	3.1	1.9			
CFSM	0.63	1.03	1.76	8.26	1.78	2.53	2.70	0.66	0.54	0.10	0.03	0.03			
IN.	0.73	1.15	2.03	9.53	1.86	2.92	3.01	0.76	0.60	0.11	0.03	0.03			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927-2005, BY WATER YEAR (WY)															
MEAN	50.5	116	258	408	422	488	411	359	240	102	71.9	60.8			
MAX	606	827	784	2057	1078	1712	1190	1731	791	519	633	830			
(WY)	1927	1973	1951	2005	1951	1945	1940	1968	1981	1973	1980	1979			
MIN	0.59	1.11	2.08	2.97	8.06	28.9	57.3	20.6	2.48	0.82	0.47	0.16			
(WY)	1931	1954	1995	1995	1954	1931	1941	1941	1993	1930	1930	1953			
SUMMARY STATISTICS															
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1927-2005			
ANNUAL TOTAL				140186.5				152260.78							
ANNUAL MEAN				383				417				250			
HIGHEST ANNUAL MEAN												442	1996		
LOWEST ANNUAL MEAN												56.1	1954		
HIGHEST DAILY MEAN				7900				Jan 5				14400	May 24	1968	
LOWEST DAILY MEAN				6.5				Oct 11				0.00	Sep 10	1953	
ANNUAL SEVEN-DAY MINIMUM				7.2				Oct 6				1.3	Sep 12	1953	
MAXIMUM PEAK FLOW								12600				Jan 6a	21700	May 24	1968
MAXIMUM PEAK STAGE								12.55				Jan 6	14.28	May 24	1968
INSTANTANEOUS LOW FLOW												0.00	Sep 10	1953	
ANNUAL RUNOFF (CFSM)				1.54								1.68			
ANNUAL RUNOFF (INCHES)				20.94								22.75			
10 PERCENT EXCEEDS				919								905	615		
50 PERCENT EXCEEDS				170								131	85		
90 PERCENT EXCEEDS				16								3.1	4.4		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03232500 Rocky Fork near Barretts Mills, Ohio

LOCATION.—Latitude 39°13'06", longitude 83°23'08", Highland County, Hydrologic Unit 05060003, on left bank at downstream side of highway bridge, 1.1 mi north of Barretts Mills, Ohio, 2 mi east of Rainsboro, Ohio, 2.8 mi upstream from mouth, and 6 mi downstream from Rocky Fork Lake.

DRAINAGE AREA.—140 mi².

PERIOD OF RECORD.—October 1939 to current year.

REVISED RECORDS.—WSP 1908: Drainage area. WDR OH-96-1: 1995 (M)

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

REMARKS.—Records fair. Flow regulated by Rocky Fork Lake 6 mi upstream, since 1952, capacity, 34,100 acre-ft. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 15.56 ft, Mar. 6, 1945.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1	8.5	73	883	532	134	167	231	237	52	79	10	60					
2	7.9	80	680	434	131	146	930	207	46	53	8.7	47					
3	7.5	130	509	930	140	129	1330	182	46	40	7.8	35					
4	7.0	356	135	2330	146	125	374	161	48	35	7.2	27					
5	6.4	274	84	3170	161	223	307	146	45	28	7.1	21					
6	6.2	144	118	4510	199	209	260	136	42	25	18	18					
7	6.0	130	232	2350	277	209	240	128	38	21	25	16					
8	5.9	109	311	1520	537	238	225	121	35	17	23	14					
9	5.9	90	289	147	558	201	195	113	33	15	19	12					
10	5.9	78	456	132	481	180	176	108	31	13	16	12					
11	5.4	77	700	303	369	170	159	99	31	10	16	11					
12	5.6	353	543	1050	298	167	143	106	33	9.5	58	11					
13	5.8	328	393	907	254	157	144	94	33	11	43	9.6					
14	6.6	250	35	1030	314	147	134	124	44	14	34	9.0					
15	9.0	197	50	472	349	138	120	134	69	18	26	8.4					
16	11	163	72	395	323	128	177	113	51	23	22	8.8					
17	17	142	88	325	286	123	162	96	40	41	20	11					
18	96	133	99	260	236	117	53	82	34	58	17	13					
19	980	444	105	236	203	120	58	80	29	162	18	12					
20	532	906	88	218	187	193	63	105	27	216	19	16					
21	494	794	89	209	188	197	63	95	24	158	21	21					
22	334	187	111	203	171	180	188	88	22	92	18	18					
23	244	69	579	180	153	261	2810	89	19	59	15	17					
24	279	182	478	166	149	397	1980	71	15	45	11	20					
25	234	390	316	155	142	334	877	62	14	37	8.4	18					
26	181	328	238	157	138	288	157	57	12	30	7.7	24					
27	150	568	177	148	133	256	285	53	11	25	7.6	25					
28	129	492	146	134	143	2510	280	59	11	22	7.7	20					
29	111	115	158	134	---	2300	258	68	10	18	14	19					
30	111	114	312	141	---	966	260	61	15	14	90	15					
31	92	---	549	137	---	255	---	60	---	12	343	---					
TOTAL	4094.6	7696	9023	23015	6800	11231	12639	3335	960	1400.5	958.2	568.8					
MEAN	132	257	291	742	243	362	421	108	32.0	45.2	30.9	19.0					
MAX	980	906	883	4510	558	2510	2810	237	69	216	343	60					
MIN	5.4	69	35	132	131	117	53	53	10	9.5	7.1	8.4					
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952-2005, BY WATER YEAR (WY)																	
MEAN	53.2	104	167	195	241	289	260	212	110	71.5	54.7	56.7					
MAX	263	514	631	742	663	1024	627	810	365	379	307	542					
(WY)	1991	1973	1991	2005	1956	1963	1970	1968	1957	1954	1958	1965					
MIN	1.95	3.97	6.16	13.4	11.3	17.2	24.2	26.2	6.22	3.69	4.95	1.88					
(WY)	1965	1964	1954	1977	1954	1983	1971	1999	1988	1964	1986	1964					
SUMMARY STATISTICS																	
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1952-2005							
ANNUAL TOTAL				70945.1			81721.1										
ANNUAL MEAN				194			224			151							
HIGHEST ANNUAL MEAN										259		1979					
LOWEST ANNUAL MEAN										56.5			1953				
HIGHEST DAILY MEAN				3540		Jan 5		4510		Jan 6	9520	Mar 10	1964				
LOWEST DAILY MEAN				5.4		Oct 11		5.4		Oct 11	0.50	Oct 6	1964				
ANNUAL SEVEN-DAY MINIMUM				5.8		Oct 7		5.8		Oct 7	0.69	Oct 6	1964				
MAXIMUM PEAK FLOW							5540	Jan 6		13400	Mar 10	1964					
MAXIMUM PEAK STAGE							11.05	Jan 6		15.56	Mar 6	1945					
INSTANTANEOUS LOW FLOW										0.40	Oct 6	1964					
10 PERCENT EXCEEDS				441			474			343							
50 PERCENT EXCEEDS				116			115			59							
90 PERCENT EXCEEDS				11			11			8.3							

03234300 Paint Creek at Chillicothe, Ohio

LOCATION.—Latitude 39°19'13", longitude 82°58'42", Ross County, Hydrologic Unit 05060003, on left bank at downstream side of bridge on State Highway 772, 4.3 mi downstream from North Fork Paint Creek and 3.8 mi upstream from mouth.

DRAINAGE AREA.—1,136 mi².

PERIOD OF RECORD.—October 1985 to current year.

REVISED RECORDS.—WDR-OH-88-1: 1986(M), 1987(M).

GAGE.—Water-stage recorder. Elevation of gage is 600 ft above sea level (from topographic map).

REMARKS.—Records fair. Flow regulated by Paint Creek Lake, 35 mi upstream, capacity 145,000 acre-ft, and Rocky Fork Lake 41 mi upstream, capacity 34,100 acre-ft. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	571	4930	4500	1140	1360	7350	2650	438	183	66	453
2	105	572	4760	6060	958	1160	10100	2470	416	214	61	221
3	101	606	3780	7710	910	1050	11900	1590	300	261	55	178
4	97	1320	2690	10900	961	1010	7400	1260	296	256	61	151
5	94	1880	1450	14100	1010	1120	4250	1150	331	243	77	131
6	91	1040	1030	22800	1140	1320	2720	951	317	189	89	117
7	90	827	1140	12900	1540	1230	1960	836	305	148	125	108
8	88	731	2090	9050	4220	1690	1820	798	293	137	123	102
9	90	660	2530	5770	5340	1590	1660	746	287	126	112	95
10	425	615	3190	3140	4850	1620	1570	712	372	107	106	94
11	440	598	4180	9270	4220	1230	1440	709	474	86	110	88
12	143	1260	3700	16100	3850	1100	1160	727	1020	82	120	85
13	126	1180	2380	10500	3600	1040	828	629	1130	79	148	83
14	122	923	1310	14000	2370	994	726	792	944	80	141	80
15	123	879	1070	10900	2600	958	642	866	876	78	127	78
16	127	1210	1000	9350	3110	822	657	1010	543	85	114	79
17	129	1150	988	8020	1920	757	954	1010	421	109	96	83
18	196	831	957	7370	1700	734	875	981	378	153	91	83
19	3650	1350	937	7530	1550	722	480	946	297	267	100	76
20	4630	2690	840	7610	1470	1030	447	761	254	263	96	87
21	3920	2220	615	7750	1450	1020	433	693	237	274	89	86
22	1940	3780	624	7310	1230	1140	1050	761	225	206	94	87
23	1430	3090	2680	6970	1090	1380	10400	756	214	165	94	86
24	1250	2780	2540	6660	1070	2370	7880	726	201	144	91	82
25	1030	3340	1700	7210	1050	3340	5220	689	188	120	89	84
26	1440	2270	1010	6190	1050	2200	1970	393	180	102	91	91
27	1350	2120	817	3610	1020	2060	5110	306	174	89	89	92
28	1260	2230	989	3130	1070	11600	5040	429	172	84	86	92
29	793	1920	1060	1560	---	16200	5220	631	153	77	86	93
30	651	1590	1960	1300	---	5450	2970	616	147	74	124	84
31	619	---	4170	1180	---	8290	---	484	---	70	446	---
TOTAL	26659	46233	63117	250450	57489	77587	104232	28078	11583	4551	3397	3349
MEAN	860	1541	2036	8079	2053	2503	3474	906	386	147	110	112
MAX	4630	3780	4930	22800	5340	16200	11900	2650	1130	274	446	453
MIN	88	571	615	1180	910	722	433	306	147	70	55	76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986-2005, BY WATER YEAR (WY)

MEAN	368	766	1318	2081	2203	2298	2189	2336	1469	587	336	202
MAX	2106	3368	5202	8079	3949	5148	4375	6366	4266	1687	1156	1378
(WY)	1991	1986	1991	2005	2000	1997	1994	1996	1996	1990	1990	2003
MIN	48.2	46.0	62.8	298	310	458	376	239	94.4	66.1	61.5	50.9
(WY)	1988	2000	1988	1988	1987	1987	1986	1988	1988	1999	1986	2002

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1986-2005	
	637981	1743	676725	1854	1342	2178
ANNUAL TOTAL	637981	1743	676725	1854	1342	2178
ANNUAL MEAN					1342	2178
HIGHEST ANNUAL MEAN					483	1996
LOWEST ANNUAL MEAN					25300	1988
HIGHEST DAILY MEAN	22700	Jan 5	22800	Jan 6	33	1990
LOWEST DAILY MEAN	88	Oct 8	55	Aug 3	38	1999
ANNUAL SEVEN-DAY MINIMUM	93	Oct 3	66	Jul 29	30100	1998
MAXIMUM PEAK FLOW			26700	Jan 6	24.67	1990
MAXIMUM PEAK STAGE			23.48	Jan 6	24.67	1990
10 PERCENT EXCEEDS	4170		5220		3780	
50 PERCENT EXCEEDS	1080		840		596	
90 PERCENT EXCEEDS	190		89		75	

03234500 Scioto River at Higby, Ohio

LOCATION.—Latitude 39°12'44", longitude 82°51'50", in sec. 6, T.7 N., R.20 W., Ross County, Hydrologic Unit 05060002, on left bank at upstream side of highway bridge, 0.8 mi downstream from Walnut Creek, 1.2 mi north of Higby, Ohio, 3 mi northwest of Richmondale, Ohio, and 5.0 mi upstream from Salt Creek.

DRAINAGE AREA.—5,131 mi².

PERIOD OF RECORD.—October 1930 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.—WSP 893: 1937(M). WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 567.28 ft above sea level. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

REMARKS.—Records excellent except for periods of estimated record, which are fair. U.S. Army Corps of Engineers satellite telemeter at station.

Water-quality data formerly collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum gage height, 31.6 ft, Mar. 26, 1913.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	2490	10600	15900	8060	5350	17400	12400	2520	3050	986	9080
2	1130	2380	13500	22200	7080	6000	19000	9640	2320	4780	917	4820
3	1190	2420	10900	26100	6170	5400	29100	7050	2140	3450	897	3570
4	1250	3870	8180	34000	5800	4920	28800	5420	2010	2410	863	2480
5	1250	5420	6010	42400	5560	4550	22000	4600	1950	1900	818	1910
6	1220	4440	4680	59000	5490	4990	15900	3960	1900	1700	889	1470
7	1230	3400	4180	70600	6150	5130	11700	3590	1820	1910	1550	1240
8	1220	3960	5400	70300	12600	7450	8260	3350	1790	1520	1180	1090
9	1210	3670	5950	57400	20900	8260	6420	3150	1830	1400	973	996
10	1500	2990	8800	41100	24000	6700	5270	3020	3310	1300	919	936
11	1540	2540	11400	36300	23100	5400	4660	2960	3200	1230	948	878
12	1290	3400	8830	45600	19800	4640	4300	2870	3730	1120	929	848
13	1270	4860	6970	45400	14500	4280	4020	3020	3340	1120	893	797
14	1410	3670	5700	58400	10600	4020	3720	3020	3240	1160	838	753
15	1770	3030	5030	61500	11100	3890	3390	4500	2940	1390	863	717
16	1940	3220	4120	52400	12300	3610	3130	4310	2400	1270	950	715
17	1880	3110	3620	43200	10500	3270	3150	3930	2090	1360	874	886
18	1750	3300	3380	35700	10100	3130	3050	3580	1930	2290	1040	1410
19	8460	5720	3250	30300	9170	3340	2700	3330	1750	1690	1160	1050
20	10300	8220	3100	26200	6970	4050	2660	3810	1620	1810	1040	1350
21	7280	6890	2710	23800	6260	4110	2580	8890	1510	1640	921	1320
22	4710	6990	2640	21700	6220	3670	3560	6210	1460	1400	996	1170
23	3630	6570	6660	20000	6500	4000	14600	4630	1410	1590	927	980
24	3440	6350	10600	18500	7040	6570	23800	3850	1350	1370	780	894
25	3970	8400	7210	18400	5960	8390	25700	3410	1260	1140	713	3550
26	3850	6860	4460	17700	5270	7490	23200	2850	1230	995	709	3270
27	3500	6870	3610	15300	4800	9050	24000	2600	1480	1130	683	4510
28	3330	7590	3430	14300	4430	21500	24100	2550	1320	1170	679	5390
29	2920	7540	3350	12100	---	39500	22000	2640	1230	1080	880	4600
30	2580	5840	4370	9240	---	30700	16900	2740	2280	983	1540	3910
31	2620	---	8720	8530	---	25200	---	2510	---	941	3580	---
TOTAL	85760	146010	191360	1053570	276430	258560	379070	134390	62360	51299	31935	66590
MEAN	2766	4867	6173	33990	9872	8341	12640	4335	2079	1655	1030	2220
MAX	10300	8400	13500	70600	24000	39500	29100	12400	3730	4780	3580	9080
MIN	1120	2380	2640	8530	4430	3130	2580	2510	1230	941	679	715
CFSM	0.54	0.95	1.20	6.62	1.92	1.63	2.46	0.84	0.41	0.32	0.20	0.43
IN.	0.62	1.06	1.39	7.64	2.00	1.87	2.75	0.97	0.45	0.37	0.23	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-2005, BY WATER YEAR (WY)

MEAN	1283	2457	4435	7097	7777	9500	8448	6232	4414	2846	1977	1448
MAX	6524	15460	17190	39500	18620	28220	19600	25070	13580	11430	10070	13230
(WY)	1991	1973	1991	1937	1951	1963	1957	1996	1997	1992	1980	1979
MIN	263	304	349	433	518	1375	1485	809	718	518	457	301
(WY)	1931	1935	1935	1931	1954	1941	1941	1941	1934	1944	1936	1953

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931-2005	
	VALUE	DATE	VALUE	DATE	VALUE	DATE
ANNUAL TOTAL	2644220		2737334			
ANNUAL MEAN	7225		7500		4811	
HIGHEST ANNUAL MEAN					8178	1996
LOWEST ANNUAL MEAN					1364	1954
HIGHEST DAILY MEAN		51000	70600	Jan 7	127000	Jan 23
LOWEST DAILY MEAN		1110	679	Aug 28	244	Oct 23
ANNUAL SEVEN-DAY MINIMUM		1150	767	Aug 23	255	Oct 19
MAXIMUM PEAK FLOW			72500	Jan 7	177000	Jan 23
MAXIMUM PEAK STAGE			22.04	Jan 7	26.40	Jan 23
INSTANTANEOUS LOW FLOW			654	Aug 26	244	Oct 23
ANNUAL RUNOFF (CFSM)		1.41		1.46		0.94
ANNUAL RUNOFF (INCHES)		19.17		19.85		12.74
10 PERCENT EXCEEDS		17300		21100		12400
50 PERCENT EXCEEDS		4450		3580		2160
90 PERCENT EXCEEDS		1570		996		552

03237020 Scioto River at Piketon, Ohio

LOCATION.—Latitude 39°04'12", longitude 83°01'11", Pike County, Hydrologic Unit 05060002, on left bank ¾ mi downstream from U.S. Highway 23 bridge.

DRAINAGE AREA.—5,836 mi².

PERIOD OF RECORD.—December 2001 to current year.

GAGE.—Water-stage recorder. Datum of gage is 531.43 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	2750	13100	14500	8670	6520	21400	15900	3260	3070	1080	8870
2	1240	2570	17300	21400	7980	7450	23500	12200	2980	5290	1060	6190
3	1290	2500	13300	25800	6950	6500	34800	9550	2700	4240	1070	4530
4	1320	3400	10100	35900	6500	5810	33200	7500	2330	3190	1040	3270
5	1340	6040	7450	43700	6200	5370	27600	6310	2230	2320	1010	2420
6	1300	5340	5560	59100	6090	5880	19200	5510	2170	1990	1000	1860
7	1280	3950	5020	76100	6580	6070	14800	4840	2070	2120	1530	1510
8	1280	3970	5940	75000	9610	7640	11000	4440	2020	1850	1580	1310
9	1280	3960	6720	70200	19600	9410	8790	4150	1960	1590	1280	1190
10	1450	3370	9410	54100	24700	7950	7270	3900	3160	1480	1150	1100
11	1570	2810	13800	40300	24600	6540	6380	3760	3640	1380	1160	1020
12	1400	3380	11200	45600	22000	5600	5810	3660	4040	1290	1170	979
13	1300	5470	8680	51400	16900	5050	5460	3700	4030	1240	1120	930
14	1330	4500	6880	52900	12500	4650	5100	3680	3680	1280	1080	889
15	1740	3530	5880	64900	13500	4350	4510	4860	3640	1460	1010	849
16	1830	3410	4840	60500	14000	4100	4140	5350	3030	1520	1160	839
17	2080	3430	4220	51400	12300	3680	4040	4730	2450	1450	1090	832
18	1820	3430	3860	40700	11000	3420	3840	4350	2210	2420	1150	1430
19	6190	5960	e3700	33200	10400	3510	3460	4070	2030	2130	1360	1320
20	11600	11400	e3200	28400	8240	4310	3320	4040	1830	2010	1260	1340
21	8440	9150	e3100	25200	7170	4860	3230	8680	1700	1980	1100	1490
22	5560	7840	2930	22900	7050	4260	3840	7690	1610	1670	1010	1410
23	4150	7130	7210	21000	6930	4220	13500	5850	1560	1710	1100	1260
24	3600	6940	14600	19300	7580	6640	28000	4820	1500	1650	910	1090
25	4190	9740	9810	18800	6860	8580	29800	4250	1400	1380	816	2500
26	4010	9000	5830	18600	6010	8210	27100	3640	1360	1200	810	4050
27	3770	7530	4500	16300	5480	8990	26200	3160	1470	1160	789	4100
28	3500	8230	e4000	14900	5130	18100	26100	3060	1560	1390	761	5730
29	3280	8560	3790	13200	---	43800	24800	3190	1350	1250	814	5340
30	2800	6890	4260	10200	---	40500	20100	3380	2100	1180	1180	4470
31	2760	---	7570	9110	---	30300	---	3250	---	1100	2720	---
TOTAL	89970	166180	227760	1134610	300530	292270	450290	167470	71070	58990	35370	74118
MEAN	2902	5539	7347	36600	10730	9428	15010	5402	2369	1903	1141	2471
MAX	11600	11400	17300	76100	24700	43800	34800	15900	4040	5290	2720	8870
MIN	1240	2500	2930	9110	5130	3420	3230	3060	1350	1100	761	832
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002-2005, BY WATER YEAR (WY)												
MEAN	3092	5318	8355	16040	8448	10180	11430	11430	8147	3388	2635	4014
MAX	4645	6574	10320	36600	11180	14680	15010	13600	14040	5935	4796	9717
(WY)	2004	2004	2004	2005	2004	2003	2005	2002	2004	2003	2003	2003
MIN	1728	3841	5857	3898	5420	7731	7034	5402	2369	1903	1141	1024
(WY)	2003	2003	2003	2002	2003	2004	2003	2005	2005	2005	2005	2002
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 2002-2005		
ANNUAL MEAN				3010880			3068628			8145		
HIGHEST ANNUAL MEAN				8226			8407			8711		
LOWEST ANNUAL MEAN										7315		
HIGHEST DAILY MEAN				59000 Jan 6			76100 Jan 7			76100 Jan 7		
LOWEST DAILY MEAN				1230 Sep 30			761 Aug 28			295 Sep 13		
ANNUAL SEVEN-DAY MINIMUM				1280 Sep 30			857 Aug 23			336 Sep 10		
MAXIMUM PEAK FLOW							78700 Jan 7			78700 Jan 7		
MAXIMUM PEAK STAGE							28.52 Jan 7			28.52 Jan 7		
INSTANTANEOUS LOW FLOW							752 Aug 28			282 Sep 13		
10 PERCENT EXCEEDS				19200			21600			19500		
50 PERCENT EXCEEDS				5230			4100			4720		
90 PERCENT EXCEEDS				1780			1180			1520		

e Estimated.

Reservoirs in Scioto River Basin

03220500 O'Shaughnessy Reservoir near Dublin, Ohio

LOCATION.—Latitude 40°09'14", longitude 83°07'33", Delaware County, Hydrologic Unit 0506001, in gate house of dam on Scioto River, 4.0 mi north of Dublin, Ohio.

DRAINAGE AREA.—979 mi².

PERIOD OF RECORD.—October 1924 to current year.

GAGE.—Water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is sea level (levels by City of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum.

REMARKS.—Reservoir is formed by concrete dam; dam completed and storage begun in 1924. Usable capacity, 14,500 acre-ft, between elevations 789.5 ft (sill of outlet gate) and 845 ft (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft, between elevations 845 ft (crest of spillway) and 847.9 ft (crest of flashboards). Dead storage below elevation 789.5 ft, 55 acre-ft. Figures given herein represent usable contents. Water used for municipal supply of City of Columbus and recreational purposes. Reservoir also used for power generation since July 1987. Capacity table computed from data furnished by City of Columbus.

EXTREMES FOR PERIOD OF RECORD.—Maximum contents, 24,240 acre-ft Jan. 22, 1959, elevation, 854.40 ft; minimum contents, 43 acre-ft Feb. 11, 1945, elevation, 791.97 ft.

03221500 Griggs Reservoir near Columbus, Ohio

LOCATION.—Latitude 40°00'54", longitude 83°05'38", Franklin County, Hydrologic Unit 0506001, on left abutment of dam on Scioto River, 6.2 mi northwest of State Capitol building in Columbus, Ohio, and 6.5 mi upstream from Olentangy River.

DRAINAGE AREA.—1,044 mi².

PERIOD OF RECORD.—January 1921 to current year.

GAGE.—Water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by City of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft above sea level (levels by City of Columbus). Prior to Oct. 4, 1940, nonrecording gage at same site and datum.

REMARKS.—Reservoir formed by concrete dam; dam completed and storage begun in 1905. Usable capacity, 3,700 acre-ft between elevations 735.4 ft (lowest outlets) and 753.4 ft (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft, between elevations 753.4 ft (crest of spillway) and 755.6 ft (crest of flashboards). Dead storage below elevation 735.4 ft, 239 acre-ft. Figures given herein represent usable contents. Water is used for municipal supply of City of Columbus and recreational purposes. Capacity table computed from data furnished by City of Columbus.

EXTREMES FOR PERIOD OF RECORD.—Maximum contents, 7,490 acre-ft Jan. 22, 1959, elevation, 763.91 ft; minimum, 38 acre-ft Jan. 24, 1945, elevation, 735.78 ft.

EXTREMES FOR CURRENT YEAR.—Maximum contents, 6,858 acre-ft Jan. 6, elevation 762.21 ft; minimum contents, 4,4636 acre-ft Oct. 10, elevation 755.57.

03228400 Hoover Reservoir at Central College

LOCATION.—Latitude 40°06'30", longitude 82°52'59", in T.2 N., R.17 W., Franklin County, Hydrologic Unit 0506001, in gate house of dam on Big Walnut Creek, 0.5 mi northeast of Central College, and 12 mi northeast of Columbus, Ohio.

DRAINAGE AREA.—190 mi².

PERIOD OF RECORD.—March 1955 to current year.

REVISED RECORDS.—WRD OH-78-1: 1975 (M).

GAGE.—Water-stage recorder. Datum of gage is sea level. Prior to Sept. 10, 1956, nonrecording gage at same site and datum.

REMARKS.—Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage begun in March 1955. Usable capacity, 60,130 acre-ft between elevations 830.0 ft (lowest outlet) and 890.0 ft (crest of spillway). Additional flood-control storage above elevation 890.0 ft by bascule gates installed in May 1970, 25,750 acre-ft. Dead storage below elevation 830.0 ft, 214 acre-ft. Figures given herein represent usable contents. Reservoir is used for municipal supply of City of Columbus and for recreational purposes. Outflow is controlled mostly by operation of valves in tunnel through dam, but above spillway level bascule gates can be used. Capacity table computed from data furnished by City of Columbus.

EXTREMES FOR PERIOD OF RECORD:—Maximum contents, 89,260 acre-ft, Jan. 6, 2005, elevation, 898.95 ft; minimum, 19,010 acre-ft Mar. 1, 1964, elevation, 868.58 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 89,290 acre-ft Jan. 6, elevation, 898.95 ft; minimum contents, 48,000 acre-ft Aug. 29, elevation 885.36 ft.

Reservoirs in Scioto River Basin—Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	O'Shaughnessy Reservoir			Griggs Reservoir			Hoover Reservoir		
	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)
Sept.30	847.70	16,790	---	756.10	4,616	---	890.12	60,460	---
Oct. 31	848.32	17,380	590	756.30	4,684	68	888.81	56,940	-3,520
Nov. 30	848.51	17,570	190	756.89	4,895	211	889.67	59,240	2,300
Dec. 31	851.18	20,400	2,830	758.92	5,641	746	894.75	74,440	15,200
CALENDAR YEAR 2004:			1,800			471			-130
Jan. 31	848.17	17,230	-3,170	^e 756.88	4,891	-750	894.50	73,590	-850
Feb. 28	848.40	17,460	230	756.86	4,884	-7	895.33	76,440	2,850
Mar. 31	849.63	18,710	1,250	757.14	4,985	101	895.67	77,640	1,200
Apr. 30	848.88	17,940	-770	757.45	5,097	112	895.61	77,430	-210
May 31	848.56	17,620	-320	756.48	4,747	-350	894.47	73,480	-3,950
June 30	848.53	17,590	-30	756.83	4,873	126	891.39	63,960	-9,520
July 31	848.29	17,350	-240	756.36	4,704	-169	888.29	55,560	-8,400
Aug. 31	849.07	18,130	780	756.93	4,909	205	887.21	52,730	-2,830
Sept. 30	848.76	17,820	-310	757.03	4,945	36	886.52	50,950	-1,780
WATER YEAR 2005:			1,030			329			-9,510

^e Estimated.

Surface-Water Records—Upper Twin Creek Basin

03237280 Upper Twin Creek at McGaw, Ohio

Hydrologic Benchmark Station

LOCATION.—Latitude 38°38'37", longitude 83°12'57", Scioto County, Hydrologic Unit 05090201, on left bank, 0.2 mi downstream from Brown Run, 0.4 mi upstream from Tucker Run, 0.8 mi upstream from bridge on U.S. Highway 52 at McGaw, Ohio, 2.7 mi northeast of Buena Vista, Ohio, and 3.3 mi upstream from mouth.

DRAINAGE AREA.—12.2 mi².

PERIOD OF RECORD.—June 1963 to current year.

GAGE.—Water-stage recorder. Datum of gage is 542.41 ft above sea level (revised). Ohio Department of Highways benchmark. Prior to July 21, 1972 at site 0.8 mi downstream at datum 22.41 ft lower; July 21, 1972-Sept. 30, 1984, at site 0.1 mi downstream at datum 1.00 ft higher; Oct. 1, 1984-May 31, 2002, at site 0.1 mi downstream at datum 4.00 ft lower.

REMARKS.—Records good except for periods of estimated record, which are fair. Periods of no flow occur most years.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of July 3, 1960, reached a stage of 11.62 ft; discharge, 7,230 ft³/s, on basis of contracted-opening and flow-over-road measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0.18	3.9	135	8.9	e13	35	72	46	1.7	8.3	0.10	10	
2	0.18	14	45	7.7	e15	27	292	31	1.6	3.6	0.09	3.4	
3	0.16	26	30	213	e17	21	110	24	1.6	1.5	0.09	1.3	
4	0.15	105	24	113	18	19	40	19	1.6	0.89	0.08	0.76	
5	0.15	37	18	314	16	24	30	16	1.4	0.71	0.07	0.52	
6	0.13	23	19	159	15	27	25	14	1.2	0.57	0.06	0.40	
7	0.12	16	44	57	15	27	22	12	1.00	0.50	0.06	0.31	
8	0.11	11	38	136	17	46	21	10	0.90	0.44	0.05	0.26	
9	0.10	6.8	43	49	17	33	18	8.5	0.81	0.37	0.05	0.22	
10	0.10	5.0	61	33	19	25	17	7.2	0.63	0.31	0.04	0.19	
11	0.10	5.8	48	28	18	21	15	6.1	0.62	0.27	0.04	0.16	
12	0.10	104	38	35	17	19	14	4.9	0.66	0.25	0.03	0.13	
13	0.10	38	29	32	16	17	14	4.2	0.73	0.25	0.03	0.12	
14	0.10	24	22	67	46	16	12	5.3	0.77	0.28	0.02	0.11	
15	0.11	18	18	36	47	16	10	8.2	2.0	0.28	0.01	0.10	
16	0.15	16	16	27	32	15	8.7	4.8	1.1	0.47	0.00	0.09	
17	0.19	13	14	20	23	14	7.9	3.5	0.83	0.75	e0.00	0.09	
18	1.1	12	12	16	18	13	7.5	2.9	0.69	0.58	0.01	0.09	
19	34	36	11	15	15	13	7.1	6.1	0.58	0.51	0.02	0.08	
20	77	71	7.0	14	14	15	6.5	56	0.53	0.47	0.02	0.08	
21	17	34	7.2	e11	14	14	6.2	23	0.48	0.43	0.01	0.08	
22	8.2	25	7.4	e10	12	13	21	15	0.43	0.43	e0.00	0.08	
23	4.4	21	35	e8.0	11	42	55	12	0.37	0.45	0.00	0.08	
24	6.7	26	31	e7.0	11	37	71	10	0.32	0.38	0.00	0.08	
25	5.8	34	24	e8.0	10	28	47	7.7	0.28	0.30	0.00	0.08	
26	3.8	28	19	e9.0	9.9	22	35	6.2	0.27	0.26	9.8	0.08	
27	2.8	23	14	e10	9.5	20	45	5.1	0.24	0.22	8.0	0.08	
28	2.0	28	12	e8.2	20	117	32	4.3	0.24	0.19	1.5	0.08	
29	1.5	25	12	e9.0	---	89	27	3.9	0.26	0.16	2.8	0.08	
30	1.6	35	10	e10	---	40	126	3.2	0.31	0.13	6.0	0.08	
31	1.5	---	9.8	e11	---	32	---	2.5	---	0.11	24	---	
TOTAL	169.63	864.5	853.4	1481.8	505.4	897	1214.9	382.6	24.15	24.36	52.98	19.21	
MEAN	5.47	28.8	27.5	47.8	18.1	28.9	40.5	12.3	0.81	0.79	1.71	0.64	
MAX	77	105	135	314	47	117	292	56	2.0	8.3	24	10	
MIN	0.10	3.9	7.0	7.0	9.5	13	6.2	2.5	0.24	0.11	0.00	0.08	
CFSM	0.45	2.36	2.26	3.92	1.48	2.37	3.32	1.01	0.07	0.06	0.14	0.05	
IN.	0.52	2.64	2.60	4.52	1.54	2.74	3.70	1.17	0.07	0.07	0.16	0.06	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963-2005, BY WATER YEAR (WY)													
MEAN	2.47	7.84	16.6	18.9	24.3	30.2	28.3	21.6	8.28	3.82	3.01	4.00	
MAX	16.8	50.1	81.6	47.8	82.2	90.7	66.7	93.1	47.9	30.8	38.0	33.3	
(WY)	1990	2004	1979	2005	2003	1964	1965	1996	2003	1986	1979	2000	
MIN	0.00	0.00	0.00	0.44	4.42	4.39	4.41	1.63	0.04	0.03	0.00	0.00	
(WY)	1964	1964	1964	1981	1978	1969	1971	1991	1988	2002	1999	1999	
SUMMARY STATISTICS													
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR			WATER YEARS 1963-2005		
ANNUAL MEAN				7058.41				6489.93					
HIGHEST ANNUAL MEAN				19.3				17.8			14.1		
LOWEST ANNUAL MEAN											31.9		
HIGHEST DAILY MEAN				338 Sep 17				314 Jan 5			850 May 15		
LOWEST DAILY MEAN				0.09 Sep 7				0.00 Aug 16			0.00 Jul 12		
ANNUAL SEVEN-DAY MINIMUM				0.10 Oct 8				0.01 Aug 19			0.00 Sep 21		
MAXIMUM PEAK FLOW								913 Jan 3a			4650 May 10		
MAXIMUM PEAK STAGE								6.34 Jan 3			10.52 May 10		
INSTANTANEOUS LOW FLOW											0.00 Jul 12		
ANNUAL RUNOFF (CFSM)				1.58				1.46			1.15		
ANNUAL RUNOFF (INCHES)				21.52				19.79			15.68		
10 PERCENT EXCEEDS				43				39			32		
50 PERCENT EXCEEDS				8.6				8.7			3.3		
90 PERCENT EXCEEDS				0.18				0.09			0.06		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Ohio Brush Creek Basin

03237500 Ohio Brush Creek near West Union, Ohio

LOCATION.—Latitude 38°48'13", longitude 83°25'16", Adams County, Hydrologic Unit 05090201, on right bank at downstream side of bridge on State Highway 348, 0.3 mi downstream from Cedar Run, 7 mi east of West Union, Ohio, and 7.1 mi upstream from Beasley Fork.

DRAINAGE AREA.—387 mi².

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 National Geodetic Vertical Datum of 1912. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	13	157	4300	698	e340	627	631	648	60	27	7.7	321			
2	12	156	1220	560	450	458	3100	414	55	29	6.6	129			
3	11	444	645	4740	525	347	3340	313	50	58	5.7	58			
4	12	2330	456	5200	652	305	1090	258	47	61	5.0	32			
5	11	1150	358	9440	694	404	681	221	46	184	4.4	20			
6	11	466	384	10800	885	757	519	195	43	39	3.8	13			
7	11	300	1500	2480	921	497	444	175	37	25	3.8	9.7			
8	11	221	1170	2720	1270	1190	434	162	31	17	3.4	7.0			
9	11	168	661	1400	1030	649	354	148	28	14	3.3	5.4			
10	11	138	1630	931	1070	464	294	134	25	11	3.1	4.6			
11	10	141	1520	1110	637	398	258	121	24	9.4	2.8	3.9			
12	11	3280	876	2540	472	393	233	109	25	8.1	2.8	3.6			
13	13	935	573	1360	430	511	228	106	25	9.5	5.7	3.3			
14	14	440	421	4240	1140	420	237	107	27	10	36	2.9			
15	18	301	333	1240	1290	335	192	124	35	9.7	19	2.5			
16	22	247	284	765	692	288	165	121	140	24	12	2.3			
17	23	230	265	555	540	262	150	96	70	166	8.7	3.1			
18	98	212	241	359	419	241	142	82	45	150	8.6	2.6			
19	2230	1620	222	401	337	234	135	197	33	133	9.2	2.4			
20	1170	1730	173	371	302	557	126	1590	26	726	9.0	4.3			
21	380	695	158	337	342	440	118	399	22	329	8.5	3.3			
22	240	447	188	e290	343	318	139	216	19	198	5.7	2.5			
23	172	355	3640	e250	285	823	2970	161	16	101	4.2	3.8			
24	596	712	1230	e230	262	1280	2350	138	14	57	3.2	5.0			
25	430	1850	521	e220	263	614	1140	112	12	37	3.0	4.9			
26	232	673	468	e240	266	514	637	91	11	26	27	11			
27	170	438	274	e220	262	451	1340	78	9.4	21	59	9.5			
28	144	1070	274	e200	289	5860	607	71	8.2	17	18	8.0			
29	127	642	284	e180	---	3290	433	67	7.5	13	13	6.7			
30	113	747	679	e220	---	1190	1040	65	13	11	34	3.8			
31	115	---	821	e280	---	756	---	64	---	9.1	473	---			
TOTAL	6442	22295	25769	54577	16408	24873	23527	6783	1004.1	2529.8	809.2	689.1			
MEAN	208	743	831	1761	586	802	784	219	33.5	81.6	26.1	23.0			
MAX	2230	3280	4300	10800	1290	5860	3340	1590	140	726	473	321			
MIN	10	138	158	180	262	234	118	64	7.5	8.1	2.8	2.3			
CFSM	0.54	1.92	2.15	4.55	1.51	2.07	2.03	0.57	0.09	0.21	0.07	0.06			
IN.	0.62	2.14	2.48	5.25	1.58	2.39	2.26	0.65	0.10	0.24	0.08	0.07			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927-2005, BY WATER YEAR (WY)															
MEAN	90.7	265	539	755	837	1006	744	558	269	182	152	132			
MAX	651	1447	2252	2637	2242	3909	2030	2230	1424	1222	1000	2053			
(WY)	1976	1986	1991	1950	2000	1964	1948	1996	1998	1932	1935	1979			
MIN	0.13	0.28	2.28	12.1	24.9	96.5	106	27.5	3.18	1.46	1.04	0.43			
(WY)	1954	1954	1954	1977	1954	1941	1971	1930	1988	1988	1988	1953			
SUMMARY STATISTICS															
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1927-2005			
ANNUAL TOTAL				198439				185706.2							
ANNUAL MEAN				542				509				459			
HIGHEST ANNUAL MEAN												951	1979		
LOWEST ANNUAL MEAN												158	1954		
HIGHEST DAILY MEAN				13300	Jan 4					49400	Mar 2	1997			
LOWEST DAILY MEAN				10	Oct 11					2.3	Sep 16	1955			
ANNUAL SEVEN-DAY MINIMUM				11	Oct 5					2.7	Sep 13	1955			
MAXIMUM PEAK FLOW								18800	Jan 6a	77700				Mar 2	1997
MAXIMUM PEAK STAGE								17.94	Jan 6	31.15				Mar 2	1997
INSTANTANEOUS LOW FLOW								2.1	Sep 16	0.00				Sep 13	1955
ANNUAL RUNOFF (CFSM)				1.40				1.31				1.19			
ANNUAL RUNOFF (INCHES)				19.07				17.85				16.12			
10 PERCENT EXCEEDS				1240				1190				1010			
50 PERCENT EXCEEDS				234				200				111			
90 PERCENT EXCEEDS				22				7.3				5.3			

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—White Oak Creek Basin

03238500 White Oak Creek near Georgetown, Ohio

LOCATION.—Latitude 38°51'29", longitude 83°55'43", Brown County, Hydrologic Unit 05090201, on left bank 150 ft upstream from diversion dam for Georgetown water treatment plant, 0.7 mi upstream from Town Run, 1.4 mi southwest of Georgetown, Ohio, and 7.2 mi upstream from mouth.

DRAINAGE AREA.—218 mi².

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 and crest gage. Datum of gage is 604.20 ft above sea level. Prior to Oct. 12, 1972, nonrecording gage at a site 1 mi downstream at datum 35.24 ft lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

REMARKS.—Records fair except for periods of estimated record and below 10 ft³/s, which are poor. Water-quality and sediment data formerly collected at this site. Satellite telemeter at this station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	79	3840	934	e110	263	183	134	22	31	e3.1	286
2	10	181	563	514	e130	194	1500	112	24	128	e2.4	57
3	8.4	458	260	3350	189	142	2480	90	24	77	e2.0	18
4	e5.5	1150	188	5630	267	121	345	76	22	75	e1.8	10
5	e5.2	626	148	7170	375	185	214	64	20	36	e1.6	6.7
6	e5.0	209	145	8520	656	447	162	55	19	26	e1.5	4.1
7	e5.0	130	1460	2160	875	231	141	50	18	17	e1.4	2.4
8	e4.8	100	922	1210	2000	673	137	45	17	9.1	e1.3	e1.5
9	e4.6	75	317	585	748	248	121	38	15	8.0	e1.2	e1.3
10	e4.0	59	1230	325	539	151	106	37	14	6.8	e1.1	e1.2
11	e4.0	81	584	752	270	125	93	34	13	5.2	e1.1	e1.1
12	e5.0	2770	391	1820	171	130	84	33	13	4.0	e1.6	e1.0
13	e7.0	479	243	851	208	250	72	34	13	12	e4.0	e1.0
14	11	199	173	3370	1080	177	71	43	51	19	e20	e0.98
15	21	133	137	457	883	126	61	84	234	25	e1.3	e0.90
16	34	111	e110	260	295	102	50	75	83	122	e1.2	e0.90
17	41	105	e96	194	236	85	45	45	39	164	e1.1	e1.8
18	569	103	e80	135	156	74	44	36	25	89	e1.0	e1.0
19	4650	3330	e68	149	120	74	41	41	18	244	e1.6	e1.4
20	1540	2020	e60	134	107	235	41	108	14	236	e1.6	e4.0
21	517	349	e50	e120	121	202	40	128	11	319	e1.3	e2.0
22	198	211	e100	e110	139	123	41	68	9.2	123	e1.2	e1.3
23	130	161	2090	e100	115	175	3670	45	8.0	48	e0.96	e1.0
24	569	695	751	e98	96	654	2090	36	7.0	30	e0.90	e5.0
25	269	1560	e200	e94	91	224	583	30	7.6	23	e1.0	e1.2
26	131	352	e140	e90	95	170	259	26	6.6	18	e100	e4.0
27	103	203	e100	e86	98	163	582	25	5.9	12	4.7	e3.0
28	84	605	e110	e82	94	6010	256	25	4.3	9.1	1.5	e2.0
29	72	332	e140	e80	---	3390	158	23	3.7	7.3	e1.2	e1.5
30	77	350	754	e82	---	386	143	23	4.1	6.5	e200	e1.4
31	93	---	2280	e92	---	240	---	23	---	e4.1	810	---
TOTAL	9188.5	17216	17730	39554	10264	15770	13813	1686	765.4	1934.1	1174.66	424.68
MEAN	296	574	572	1276	367	509	460	54.4	25.5	62.4	37.9	14.2
MAX	4650	3330	3840	8520	2000	6010	3670	134	234	319	810	286
MIN	4.0	59	50	80	91	74	40	23	3.7	4.0	0.90	0.90
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925-2005, BY WATER YEAR (WY)												
MEAN	67.6	168	301	446	492	549	432	301	165	106	89.0	85.9
MAX	580	1103	1427	1487	1281	1822	1134	1646	996	740	531	1220
(WY)	1984	1986	1991	1950	1955	1963	1973	1996	1998	2001	1926	1979
MIN	0.07	0.00	1.64	1.67	12.2	41.5	31.6	10.9	0.47	0.00	1.28	0.17
(WY)	1941	2000	1964	1977	1934	1941	1971	1934	1999	1999	1993	1985

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1925-2005	
ANNUAL TOTAL	139486.0	129520.34		
ANNUAL MEAN	381	355	266	
HIGHEST ANNUAL MEAN			583	1979
LOWEST ANNUAL MEAN			82.4	1954
HIGHEST DAILY MEAN	9040 Jan 4	8520 Jan 6	19400 Mar 10	1964
LOWEST DAILY MEAN	4.0 Oct 10	0.90 Aug 24	0.00 Jul 19	1930
ANNUAL SEVEN-DAY MINIMUM	4.6 Oct 6	1.0 Sep 10	0.00 Jul 19	1930
MAXIMUM PEAK FLOW		10900 Mar 28a	22400 Mar 10	1964
MAXIMUM PEAK STAGE		7.92 Mar 28	20.87 May 14	1933
INSTANTANEOUS LOW FLOW			0.00 Sep 15	1930
10 PERCENT EXCEEDS	776	751	542	
50 PERCENT EXCEEDS	88	90	44	
90 PERCENT EXCEEDS	12	1.6	2.4	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.
e Estimated.

Surface-Water Records—Little Miami River Basin

03240000 Little Miami River near Oldtown, Ohio

LOCATION.—Latitude 39°44'54", longitude 83°55'53", in sec. 34, R.7, T.4, Greene County, Hydrologic Unit 05090202, on right bank at downstream side of bridge on U.S. Highway 68, 0.8 mi downstream from Conner Branch, 0.9 mi upstream from Massies Creek, 1.3 mi northeast of Oldtown, Ohio, and at mile 82.25.

DRAINAGE AREA.—129 mi².

PERIOD OF RECORD.—July 1952 to current year.

REVISED RECORDS.—WDR-OH-98-1; 1991(M), 1993(M), and 1994(M).

GAGE.—Water-stage recorder. Datum of gage is 816.56 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are fair. Water-quality and sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	25	95	927	132	151	237	176	88	213	27	62
2	22	27	117	473	128	140	380	156	87	107	25	38
3	22	30	86	1230	128	135	648	143	87	75	24	30
4	22	37	70	2140	124	133	361	132	84	62	24	26
5	22	44	61	2450	125	139	266	124	80	55	23	24
6	21	39	57	4330	135	191	220	119	77	50	25	23
7	21	35	60	1580	186	225	200	116	73	45	25	22
8	21	31	86	774	521	184	186	110	72	42	24	21
9	21	29	92	629	478	150	166	106	71	40	23	21
10	21	28	165	467	344	139	155	111	72	37	21	21
11	21	30	143	714	255	135	146	107	77	35	21	20
12	21	44	110	2710	212	130	143	123	81	35	36	20
13	23	47	93	1150	197	120	140	109	84	36	25	19
14	24	40	80	1410	207	112	129	158	74	37	22	18
15	29	35	71	648	232	108	123	193	69	37	22	18
16	27	34	65	435	220	105	120	148	65	40	23	28
17	25	34	62	351	202	104	117	128	61	47	22	32
18	40	38	59	290	175	102	115	117	57	43	22	26
19	81	46	57	267	157	104	112	119	56	50	57	22
20	52	68	53	246	155	113	109	280	53	79	27	27
21	38	58	e58	225	190	108	107	292	50	128	25	30
22	33	49	e50	215	181	103	116	184	47	87	23	24
23	31	46	e64	191	162	210	620	156	44	55	21	22
24	38	48	e80	199	156	246	994	139	42	42	20	22
25	38	56	e72	177	148	200	600	125	41	38	19	26
26	32	52	e64	173	143	306	385	116	41	35	19	35
27	31	48	e58	157	137	245	447	109	39	35	20	40
28	29	52	e54	152	143	1070	311	107	53	35	20	32
29	29	52	e60	147	---	1090	236	101	64	33	19	32
30	28	50	e80	146	---	425	206	95	183	30	37	31
31	27	---	e200	138	---	306	---	92	---	28	114	---
TOTAL	912	1252	2522	25141	5573	7029	8095	4291	2072	1711	855	812
MEAN	29.4	41.7	81.4	811	199	227	270	138	69.1	55.2	27.6	27.1
MAX	81	68	200	4330	521	1090	994	292	183	213	114	62
MIN	21	25	50	138	124	102	107	92	39	28	19	18
CFSM	0.23	0.32	0.63	6.29	1.54	1.76	2.09	1.07	0.54	0.43	0.21	0.21
IN.	0.26	0.36	0.73	7.25	1.61	2.03	2.33	1.24	0.60	0.49	0.25	0.23
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952-2005, BY WATER YEAR (WY)												
MEAN	37.8	71.4	114	158	179	210	205	180	134	88.3	63.8	42.5
MAX	163	315	513	811	485	655	446	637	469	406	413	378
(WY)	1991	1986	1991	2005	1975	1963	1996	1996	1981	1990	1980	1979
MIN	9.40	11.0	11.3	10.4	20.9	35.1	54.9	35.2	22.1	10.6	11.3	6.94
(WY)	2000	1954	1954	1977	1954	1954	1971	1954	1988	1954	1999	1999
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1952-2005		
ANNUAL TOTAL				60633			60265					
ANNUAL MEAN				166			165			123		
HIGHEST ANNUAL MEAN										228		
LOWEST ANNUAL MEAN										28.6		
HIGHEST DAILY MEAN				4830 Jan 5			4330 Jan 6			6140 Jan 21		
LOWEST DAILY MEAN				21 Sep 25			18 Sep 14			3.5 Sep 2		
ANNUAL SEVEN-DAY MINIMUM				21 Oct 6			20 Sep 9			5.5 Sep 13		
MAXIMUM PEAK FLOW							4700 Jan 6a			14800 Jan 21		
MAXIMUM PEAK STAGE							9.92 Jan 6			12.20 Jan 21		
INSTANTANEOUS LOW FLOW							18 Sep 13			2.8 Sep 2		
ANNUAL RUNOFF (CFSM)				1.28			1.28			0.96		
ANNUAL RUNOFF (INCHES)				17.48			17.38			13.01		
10 PERCENT EXCEEDS				280			284			259		
50 PERCENT EXCEEDS				104			74			65		
90 PERCENT EXCEEDS				27			22			17		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03241500 Massies Creek at Wilberforce, Ohio

LOCATION.—Latitude 39°43'22", longitude 83°52'58", Greene County, Hydrologic Unit 05090202, on left bank at bridge on Wilberforce-Clifton Road, 0.5 mi northwest of Wilberforce, Ohio, 0.6 mi downstream from unnamed right bank tributary, and 1.7 mi upstream from Clark Run.

DRAINAGE AREA.—63.2 mi².

PERIOD OF RECORD.—September 1952 to current year. Prior to October 1962, published as Massie Creek at Wilberforce.

REVISED RECORDS.—WSP 1908: Drainage area.

GAGE.—Water-stage recorder and crest gage. Datum of gage is 865.15 ft above sea level. Aug. 4, 1972-Sept. 30, 1979, at site 150 ft downstream at same datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. Satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	14	139	710	e31	59	125	97	26	140	6.3	28
2	8.6	14	120	369	e30	51	279	81	26	53	6.1	18
3	8.0	17	80	794	e29	49	407	69	26	31	5.8	13
4	8.1	27	59	1080	e29	49	194	59	26	23	5.8	9.9
5	8.0	34	47	1370	e29	53	136	53	24	20	5.5	8.2
6	11	27	42	1880	e34	87	107	51	22	17	7.6	7.3
7	11	23	49	794	73	104	94	50	21	15	5.9	6.4
8	9.7	19	80	441	400	108	80	47	21	14	5.4	6.3
9	9.3	16	82	325	343	71	68	44	23	12	5.0	6.3
10	8.8	16	197	221	210	59	62	43	26	11	5.1	6.0
11	8.5	17	126	386	138	56	56	43	31	8.9	6.0	6.6
12	8.5	23	89	954	104	52	55	47	31	8.5	5.8	5.7
13	11	28	71	573	95	44	53	42	33	9.1	5.3	5.0
14	10	22	55	616	107	40	46	79	31	9.5	5.1	5.3
15	15	20	47	285	131	38	43	108	25	8.9	5.2	5.6
16	13	20	44	187	111	37	41	74	23	10	5.3	13
17	12	20	42	139	95	37	40	58	20	15	5.2	7.8
18	36	21	40	109	74	36	40	51	19	11	5.0	6.8
19	87	41	38	98	61	38	39	54	18	15	6.8	6.1
20	49	78	41	83	60	51	38	76	17	11	8.0	9.1
21	32	53	39	70	85	48	38	64	16	18	7.6	7.6
22	24	41	35	67	77	43	45	53	14	18	6.3	6.9
23	23	36	41	56	64	180	356	50	13	13	5.3	6.7
24	26	37	e44	68	61	167	524	45	12	10	5.1	6.7
25	26	54	e38	55	54	118	341	39	12	8.9	4.9	7.2
26	22	41	e34	51	52	173	222	36	12	7.8	5.9	12
27	19	36	e30	40	50	129	297	34	10	9.3	8.5	11
28	18	42	e26	e38	55	796	175	34	23	9.4	5.8	9.7
29	16	41	e33	e36	---	759	132	32	16	7.9	5.5	13
30	16	41	e60	e34	---	264	117	30	99	7.7	29	12
31	13	---	e300	e32	---	174	---	28	---	6.7	52	---
TOTAL	576.0	919	2168	11961	2682	3970	4250	1671	716	559.6	252.1	273.2
MEAN	18.6	30.6	69.9	386	95.8	128	142	53.9	23.9	18.1	8.13	9.11
MAX	87	78	300	1880	400	796	524	108	99	140	52	28
MIN	8.0	14	26	32	29	36	38	28	10	6.7	4.9	5.0
CFSM	0.29	0.48	1.11	6.11	1.52	2.03	2.24	0.85	0.38	0.29	0.13	0.14
IN.	0.34	0.54	1.28	7.04	1.58	2.34	2.50	0.98	0.42	0.33	0.15	0.16
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952-2005, BY WATER YEAR (WY)												
MEAN	16.5	41.7	66.6	85.9	101	118	112	97.0	67.3	41.3	27.6	16.1
MAX	99.7	248	290	386	236	372	254	335	253	199	196	186
(WY)	1991	1986	1991	2005	1975	1963	1996	1968	1981	1990	1958	1979
MIN	1.55	1.95	2.35	4.59	6.41	13.1	19.8	12.8	6.90	1.75	1.49	1.05
(WY)	1954	1954	1954	1977	1954	1954	1971	1954	1988	1954	1953	1953
SUMMARY STATISTICS												
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1952-2005		
ANNUAL MEAN				32235.3			29997.9			65.7		
HIGHEST ANNUAL MEAN				88.1			82.2			113		
LOWEST ANNUAL MEAN										1973		
HIGHEST DAILY MEAN				2050 Jan 5			1880 Jan 6			8.68		
LOWEST DAILY MEAN				8.0 Oct 3			4.9 Aug 25			1954		
ANNUAL SEVEN-DAY MINIMUM				8.3 Sep 21			5.3 Aug 12			0.30 Sep 3		
MAXIMUM PEAK FLOW							2210 Jan 6a			1959		
MAXIMUM PEAK STAGE							9.00 Jan 6			11.25 Jan 21		
INSTANTANEOUS LOW FLOW							4.4 Aug 18			1959		
ANNUAL RUNOFF (CFSM)				1.39			1.30			0.30 Sep 3		
ANNUAL RUNOFF (INCHES)				18.97			17.66			1.04		
10 PERCENT EXCEEDS				176			169			14.13		
50 PERCENT EXCEEDS				46			36			149		
90 PERCENT EXCEEDS				9.8			6.7			30		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.
e Estimated.

03244936 O'Bannon Creek near Loveland, Ohio

LOCATION.—Latitude 39°15'53", longitude 84°13'58", Clermont County, Hydrologic Unit 05090202, on left bank at downstream side of bridge on O'Bannonville Road, 1.1 mi east of Loveland, Ohio, 1.9 mi upstream from mouth.

DRAINAGE AREA.—54.5 mi².

PERIOD OF RECORD.—October 2003 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 599.61 ft, above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	13	383	367	e28	44	39	29	5.0	259	1.3	46
2	3.4	43	85	155	43	27	529	22	6.0	23	1.3	16
3	3.4	99	45	1200	42	21	188	18	5.4	11	1.2	8.5
4	3.2	99	30	671	60	20	66	16	15	6.4	1.2	5.5
5	3.0	53	23	2710	106	113	45	14	7.5	5.4	1.3	4.5
6	3.1	26	34	2040	164	88	33	13	4.7	6.0	3.7	3.7
7	3.1	18	190	186	220	48	33	13	4.0	3.9	4.0	3.2
8	3.4	14	102	338	555	69	30	11	3.9	2.5	2.2	3.4
9	3.5	11	274	124	183	35	23	10	3.8	2.4	1.8	3.3
10	3.5	8.6	249	74	124	26	19	9.6	14	2.2	1.6	2.7
11	4.4	21	163	956	63	25	17	8.3	23	2.1	28	2.5
12	4.3	469	102	357	44	36	16	12	13	2.1	34	2.3
13	5.6	72	54	722	82	56	16	9.1	270	5.8	5.4	2.3
14	6.1	30	34	476	330	37	14	39	52	6.6	4.3	2.0
15	9.2	21	25	98	144	26	13	20	48	5.5	3.6	2.2
16	7.0	18	23	61	81	21	13	12	16	7.3	2.4	2.7
17	5.7	16	20	37	54	19	13	8.9	11	11	2.1	2.5
18	546	16	19	25	34	17	12	8.0	8.0	27	2.0	2.5
19	347	772	17	e22	26	26	11	28	6.4	27	4.2	2.5
20	156	174	14	e20	24	92	10	38	5.7	49	3.7	8.2
21	67	64	14	e19	30	42	11	17	5.7	53	2.8	4.6
22	23	38	17	e17	27	28	36	11	5.4	11	2.1	3.8
23	33	31	23	e16	22	824	772	8.7	4.3	5.7	1.7	3.2
24	99	147	28	e14	21	186	307	6.2	4.0	3.5	1.6	3.2
25	32	105	22	e13	21	80	109	5.4	3.7	2.2	1.6	2.8
26	16	41	20	e13	21	65	124	5.1	3.6	2.0	2.0	6.4
27	22	28	17	e12	19	49	180	4.7	3.6	1.8	3.6	4.9
28	17	70	16	e12	21	3070	59	8.1	3.5	1.5	2.3	3.7
29	13	40	30	e11	---	259	39	5.7	3.7	1.5	2.2	5.0
30	19	37	496	e11	---	89	38	6.6	9.4	1.4	497	3.9
31	17	---	1840	e20	---	54	---	7.1	---	1.4	374	---
TOTAL	1482.1	2594.6	4409	10797	2589	5592	2815	424.5	569.3	550.2	1000.2	168.0
MEAN	47.8	86.5	142	348	92.5	180	93.8	13.7	19.0	17.7	32.3	5.60
MAX	546	772	1840	2710	555	3070	772	39	270	259	497	46
MIN	3.0	8.6	14	11	19	17	10	4.7	3.5	1.4	1.2	2.0
CFSM	0.88	1.59	2.61	6.39	1.70	3.31	1.72	0.25	0.35	0.33	0.59	0.10
IN.	1.01	1.77	3.01	7.37	1.77	3.82	1.92	0.29	0.39	0.38	0.68	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003-20045 BY WATER YEAR (WY)

MEAN	34.1	98.0	116	272	107	143	101	59.4	15.2	29.3	20.7	47.5
MAX	47.8	109	142	348	121	180	108	105	19.0	40.9	32.3	133
(WY)	2005	2004	2005	2005	2004	2005	2004	2004	2005	2004	2005	2003
MIN	20.3	86.5	89.4	196	92.5	105	93.8	13.7	11.3	17.7	9.20	4.24
(WY)	2004	2005	2004	2004	2005	2004	2005	2005	2004	2005	2004	2004

	SUMMARY STATISTICS		FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003-2005	
ANNUAL TOTAL			29871.8		32990.9			
ANNUAL MEAN			81.6		90.4		83.5	
HIGHEST ANNUAL MEAN							90.4	2005
LOWEST ANNUAL MEAN							76.7	2004
HIGHEST DAILY MEAN			3200	Jan 4	3070	Mar 28	3200	Jan 4 2004
LOWEST DAILY MEAN			1.9	Jul 20	1.2	Aug 3	1.2	Aug 3 2005
ANNUAL SEVEN-DAY MINIMUM			2.1	Jul 15	1.3	Jul 30	1.3	Jul 30 2005
MAXIMUM PEAK FLOW					9080	Mar 28	9080	Mar 28 2005
2005					9.37	Mar 28	9.37	Mar 28 2005
INSTANTANEOUS LOW FLOW					0.72	Jul 31	0.72	Jul 31 2005
ANNUAL RUNOFF (CFSM)			1.50		1.66		1.53	
ANNUAL RUNOFF (INCHES)			20.39		22.52		20.82	
10 PERCENT EXCEEDS			157		184		161	
50 PERCENT EXCEEDS			19		17		18	
90 PERCENT EXCEEDS			3.2		2.5		3.0	

e Estimated.

03245500 Little Miami River at Milford, Ohio

LOCATION.—Latitude 39°10'17", longitude 84°17'53", Clermont County, Hydrologic Unit 05090202, on right bank 500 ft downstream from Wooster Pike bridge on U.S. Highway 50 in Milford, Ohio, 1.2 mi upstream from East Fork, 6.4 mi downstream from North Branch Creek, and at mile 12.9.

DRAINAGE AREA.—1,203 mi².

PERIOD OF RECORD.—July 1915 to September 1917, October 1917 to May 1920 (gage heights only), March 1925 to September 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305, published as "at Miamiville" 1915-20.

REVISED RECORDS.—WSP 728: 1931. WSP 743: 1932. WSP 873: 1925-36. WSP 1908: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 494.35 ft, National Geodetic Vertical Datum of 1912. June 22, 1915-May 14, 1920, nonrecording gage at site 4 mi upstream at different datum; Mar. 11, 1925-Aug.16,1928, nonrecording gage at bridge 500 ft upstream at datum 5.72 ft higher; Aug. 17, 1928-Sept. 30, 1977, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.—Records fair except for periods of estimated record, which are poor. Some regulation since 1948 by Cowan Lake, capacity 12,000 acre-ft, 45 mi upstream on Cowan Creek, tributary to Todd Fork, and Caesar Creek Lake capacity 242,200 acre-ft 41.3 mi upstream on Caesar Creek. U.S. Army Corps of Engineers satellite telemeter at station. Sediment data formerly collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913 reached a stage of 30.5 ft, present datum; information from U.S. Army Corps of Engineers.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	453	2910	6920	3040	1060	4440	2280	541	4400	176	1150
2	183	524	2110	5570	3050	1010	5310	1490	535	1750	171	486
3	180	803	1560	8980	2840	915	7040	1370	497	798	164	325
4	182	1120	1300	9740	2890	894	5510	1240	480	526	163	254
5	197	975	1180	23000	2990	1030	3490	1020	460	442	158	218
6	195	762	1050	26400	3310	1280	2490	956	430	406	219	199
7	192	634	1440	12700	3850	1220	2260	905	417	341	241	182
8	181	569	1820	9080	7080	1750	1810	852	386	289	272	162
9	178	469	1800	5150	5890	1500	1500	772	373	258	191	242
10	178	414	3730	3540	5100	1270	1300	726	397	240	169	227
11	176	441	2970	6420	4270	1190	1200	696	431	232	215	179
12	178	1540	3010	11400	3550	1130	1140	836	394	225	305	167
13	200	1010	2240	7780	3460	1080	1140	852	1550	297	174	156
14	221	686	1260	10100	3830	979	1080	1140	903	280	199	155
15	248	576	1090	5690	3580	877	992	1350	602	349	210	154
16	239	534	863	3410	2930	817	897	1190	480	600	172	151
17	241	537	888	2460	2690	787	853	1020	400	381	166	293
18	1920	593	866	1950	2050	768	825	831	348	404	159	364
19	3690	2610	842	1960	1780	807	805	959	308	340	186	305
20	1880	2570	751	3300	1470	1070	797	1220	296	366	194	355
21	1110	1380	669	3990	1510	990	794	1100	283	512	215	283
22	793	1140	684	3800	1500	878	948	1020	269	415	166	238
23	751	1010	662	3430	1290	3890	5470	880	254	376	153	200
24	1180	1080	e640	3290	1090	3780	6630	799	243	311	145	182
25	1000	1610	e620	3350	1050	2350	5800	672	239	249	143	168
26	776	1230	e580	3380	1010	2090	5090	596	224	222	147	268
27	756	928	e560	3290	967	2040	5470	570	259	204	339	288
28	627	1050	e540	3130	927	19600	3930	629	295	199	199	258
29	523	1050	e660	3020	---	10700	2660	612	514	223	174	229
30	521	984	2290	2800	---	5900	2560	606	373	195	1950	211
31	499	---	11900	3100	---	5220	---	588	---	187	3470	---
TOTAL	19374	29282	53485	202130	78994	78872	84231	29777	13181	16017	11005	8049
MEAN	625	976	1725	6520	2821	2544	2808	961	439	517	355	268
MAX	3690	2610	11900	26400	7080	19600	7040	2280	1550	4400	3470	1150
MIN	176	414	540	1950	927	768	794	570	224	187	143	151
CFSM	0.52	0.81	1.43	5.42	2.35	2.11	2.33	0.80	0.37	0.43	0.30	0.22
IN.	0.60	0.91	1.65	6.25	2.44	2.44	2.60	0.92	0.41	0.50	0.34	0.25
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916-2005, BY WATER YEAR (WY)												
MEAN	373	813	1333	1939	2108	2405	2157	1724	1091	718	475	388
MAX	2775	4189	5494	7131	4951	8212	5396	7594	4686	3542	3014	3711
(WY)	1927	1986	1991	1949	1950	1945	1940	1996	1973	1958	1926	1979
MIN	47.0	60.2	73.4	88.6	145	218	369	138	117	78.0	77.6	43.0
(WY)	1954	1954	1935	1977	1954	1941	1941	1934	1925	1930	1930	1953
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1916-2005		
ANNUAL TOTAL				606792			624397					
ANNUAL MEAN				1658			1711			1294		
HIGHEST ANNUAL MEAN										2364		
LOWEST ANNUAL MEAN										301		
HIGHEST DAILY MEAN				29000 Jan 5			26400 Jan 6			72400 Jan 22		
LOWEST DAILY MEAN				175 Sep 30			143 Aug 25			27 Sep 18		
ANNUAL SEVEN-DAY MINIMUM				180 Sep 28			166 Aug 20			37 Sep 12		
MAXIMUM PEAK FLOW							31400 Jan 6a			84100 Jan 22		
MAXIMUM PEAK STAGE							19.10 Jan 6			27.30 Jan 22		
INSTANTANEOUS LOW FLOW										27 Sep 18		
ANNUAL RUNOFF (CFSM)				1.38			1.42			1.08		
ANNUAL RUNOFF (INCHES)				18.76			19.31			14.62		
10 PERCENT EXCEEDS				4070			3870			3100		
50 PERCENT EXCEEDS				929			825			516		
90 PERCENT EXCEEDS				233			187			117		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03247500 East Fork Little Miami River at Perintown, Ohio

LOCATION.—Latitude 39°08'13", longitude 84°14'17", Clermont County, Hydrologic Unit 05090202, on right bank at upstream wingwall of highway bridge at Perintown, Ohio, 0.2 mi downstream from Sugarcamp Run, 5 mi upstream from mouth, and at mile 6.4.

DRAINAGE AREA.—476 mi².

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 and crest gage. Datum of gage is 507.03 ft above sea level. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Occasional regulation by Stonelick Lake 14 mi upstream. Surface area at spillway level, 171 acres. Flow regulated by William H. Harsha Reservoir, formerly East Fork Lake, since 1977. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 42,400 ft³/s Mar. 10, 1964, gage height, 23.84 ft; minimum daily, 0.4 ft³/s July 24, 1930, Sept. 11, 12, 23, 1939; minimum gage height, -0.18 ft Oct. 3-7, 1917.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	219	1920	2920	2320	274	2820	209	58	577	e38	295
2	42	316	2440	3410	2320	311	2860	192	62	123	e38	637
3	43	577	2070	4840	2310	356	3110	162	61	60	38	542
4	44	1080	1230	2170	2330	307	3590	124	56	48	38	230
5	45	923	482	4970	2370	348	2880	122	53	45	40	68
6	43	835	323	4170	2460	504	1540	115	53	47	49	53
7	44	621	634	682	2770	596	1020	92	51	43	45	51
8	44	234	1230	1110	4100	567	954	84	52	43	41	46
9	43	160	1610	498	3740	633	611	81	51	42	39	46
10	43	152	1680	335	3330	723	276	78	100	40	38	45
11	45	183	2040	627	2540	479	182	71	130	40	43	44
12	46	1690	1670	972	2050	385	125	87	70	40	79	44
13	52	1680	1050	1150	1830	313	153	71	554	52	43	43
14	51	2420	603	1410	2390	299	109	145	167	59	43	43
15	83	924	523	e900	2430	280	94	120	151	52	42	44
16	68	472	268	e580	2160	269	151	80	74	45	42	47
17	51	182	232	e350	851	260	93	70	63	177	41	51
18	1210	178	223	e200	515	154	77	98	55	137	81	44
19	2290	2440	184	1090	296	159	74	157	51	497	55	46
20	3200	2450	173	3220	290	345	72	181	51	102	47	73
21	3140	3240	176	3830	292	404	77	168	50	481	45	77
22	2590	2800	227	3230	252	559	106	153	48	111	43	86
23	1210	1610	397	2940	240	1670	2710	149	47	146	42	95
24	548	766	728	2920	242	1430	2510	76	47	96	43	102
25	491	1230	907	2900	242	1690	3580	61	46	87	42	102
26	572	2080	802	2910	237	1120	2360	58	44	79	70	126
27	471	1320	340	2890	216	687	1810	55	44	55	59	92
28	211	959	260	2640	223	6420	1360	72	44	35	45	80
29	137	936	295	2330	---	2220	256	60	44	e35	43	98
30	163	815	1670	2340	---	3780	233	58	50	e40	1100	90
31	228	---	4360	2330	---	3570	---	62	---	e39	1170	---
TOTAL	17291	33492	30747	66864	45346	31112	35793	3311	2427	3473	3622	3440
MEAN	558	1116	992	2157	1620	1004	1193	107	80.9	112	117	115
MAX	3200	3240	4360	4970	4100	6420	3590	209	554	577	1170	637
MIN	42	152	173	200	216	154	72	55	44	35	38	43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977-2005, BY WATER YEAR (WY)

MEAN	272	416	739	843	1032	1067	906	945	516	271	212	230
MAX	980	1446	2108	2157	2162	2432	1789	3657	2165	1110	1220	1869
(WY)	1984	1986	1991	2005	1990	1997	1998	1996	1997	2001	1979	1979
MIN	18.5	48.0	54.1	15.3	168	138	73.5	48.4	35.6	32.4	38.6	30.1
(WY)	1983	2000	1977	1977	1987	1983	1986	1988	1988	1984	1987	1983

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1977-2005
ANNUAL TOTAL	281172	276918	
ANNUAL MEAN	768	759	619
HIGHEST ANNUAL MEAN			1058
LOWEST ANNUAL MEAN			266
HIGHEST DAILY MEAN	5810	6420	10800
LOWEST DAILY MEAN	42	35	14
ANNUAL SEVEN-DAY MINIMUM	43	38	14
MAXIMUM PEAK FLOW		13900	29000
MAXIMUM PEAK STAGE		15.18	21.00
INSTANTANEOUS LOW FLOW			14
10 PERCENT EXCEEDS	2440	2480	2140
50 PERCENT EXCEEDS	247	192	157
90 PERCENT EXCEEDS	52	43	39

e Estimated.

Surface-Water Records—Shepherd Creek Basin

391059084345500 West Branch Shepherd Creek at River Mile 0.40 near Mount Airy, Ohio

LOCATION.—Latitude 39°10'59", longitude 84°34'55", Hamilton County, Hydrologic Unit 05090203, 250 ft south of the intersection of Orchard Valley Drive and Edger Road, 0.8 mi southwest of Mount Airy, Ohio, 0.40 mi upstream from confluence with Middle Branch.

DRAINAGE AREA.—0.11 mi².

PERIOD OF RECORD.—October 1, 2004, to September 30, 2005.

GAGE.—Water-stage recorder. Datum of gage is 791.96 ft above sea level.

REMARKS.—Records poor due to many discharges less than 0.05 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	e0.00	e0.02	e0.17	e0.02	e0.07	e0.00	e0.03	e0.00	e0.17	e0.01	e0.04
2	e0.00	e0.16	e0.00	e0.01	e0.03	e0.05	e0.78	e0.03	e0.01	e0.03	e0.01	e0.01
3	e0.00	e0.00	e0.00	e1.1	e0.07	e0.05	e0.01	e0.02	e0.16	e0.03	e0.01	e0.01
4	e0.00	e0.41	e0.00	e0.83	e0.07	e0.05	e0.00	e0.02	e0.05	e0.03	e0.01	e0.01
5	e0.00	e0.00	e0.00	e0.47	e0.09	e0.07	e0.00	e0.01	e0.01	e0.09	e0.07	e0.01
6	e0.00	e0.00	e0.03	e0.22	e0.14	e0.04	e0.00	e0.01	e0.01	e0.06	e0.13	e0.01
7	e0.00	e0.00	e0.12	e0.03	e0.19	e0.06	e0.01	e0.02	e0.04	e0.05	e0.02	e0.01
8	e0.00	e0.00	e0.00	e0.38	e0.47	e0.04	e0.02	e0.01	e0.02	e0.06	e0.01	e0.01
9	e0.00	e0.00	e0.34	e0.03	e0.15	e0.03	e0.00	e0.01	e0.01	e0.05	e0.01	e0.02
10	e0.00	e0.00	e0.03	e0.03	e0.07	e0.03	e0.03	e0.01	e0.91	e0.05	e0.01	e0.01
11	e0.00	e0.26	e0.06	e0.03	e0.05	e0.03	e0.02	e0.01	e0.08	e0.05	e0.01	e0.01
12	e0.00	e0.35	e0.00	e0.03	e0.04	e0.05	e0.03	e0.03	e0.51	e0.05	e0.00	e0.01
13	e0.03	e0.00	e0.00	e0.06	e0.14	e0.03	e0.04	e0.03	e0.26	e0.66	e0.00	e0.01
14	e0.00	e0.00	e0.00	e0.12	e0.23	e0.03	e0.02	e0.10	e0.14	e0.22	e0.03	e0.01
15	e0.02	e0.00	e0.00	e0.02	e0.11	e0.02	e0.02	e0.02	e0.46	e0.44	e0.03	e0.01
16	e0.00	e0.00	e0.00	e0.02	e0.11	e0.02	e0.01	e0.01	e0.38	e0.68	e0.02	e0.02
17	e0.00	e0.00	e0.00	e0.02	e0.10	e0.02	e0.01	e0.00	e0.42	e0.68	e0.01	e0.01
18	e0.67	e0.00	e0.00	e0.02	e0.08	e0.02	e0.01	e0.00	e0.26	e0.04	e0.02	e0.01
19	e0.10	e0.65	e0.00	e0.02	e0.07	e0.08	e0.01	e0.06	e0.12	e0.08	e0.09	e0.04
20	e0.03	e0.03	e0.00	e0.00	e0.06	e0.04	e0.02	e0.02	e0.14	e0.57	e0.06	e0.13
21	e0.00	e0.00	e0.00	e0.00	e0.04	e0.03	e0.08	e0.02	e0.04	e0.12	e0.01	e0.01
22	e0.00	e0.00	e0.00	e0.00	e0.03	e0.08	e0.59	e0.00	e0.02	e0.30	e0.01	e0.00
23	e0.08	e0.00	e0.00	e0.03	e0.03	e0.64	e1.5	e0.00	e0.02	e0.03	e0.01	e0.03
24	e0.00	e0.05	e0.00	e0.17	e0.05	e0.12	e0.18	e0.00	e0.01	e0.02	e0.00	e0.01
25	e0.00	e0.00	e0.00	e0.00	e0.03	e0.07	e0.07	e0.00	e0.02	e0.02	e0.00	e0.06
26	e0.00	e0.00	e0.00	e0.00	e0.03	e0.05	e0.96	e0.00	e0.02	e0.01	e0.03	e0.16
27	e0.02	e0.01	e0.00	e0.00	e0.03	e0.08	e0.21	e0.00	e0.00	e0.02	e0.01	e0.02
28	e0.00	e0.00	e0.00	e0.00	e0.11	e1.4	e0.07	e0.04	e0.00	e0.01	e0.01	e0.01
29	e0.00	e0.00	e0.04	e0.00	---	e0.22	e0.05	e0.00	e0.00	e0.01	e0.01	e0.05
30	e0.02	e0.04	e0.45	e0.00	---	e0.10	e0.06	e0.04	e0.12	e0.01	e0.99	e0.01
31	e0.00	---	e0.98	e0.00	---	e0.06	---	e0.01	---	e0.02	e0.64	---
TOTAL	0.97	1.96	2.07	3.81	2.64	3.68	4.81	0.56	4.24	4.66	2.28	0.76
MEAN	0.03	0.07	0.07	0.12	0.09	0.12	0.16	0.02	0.14	0.15	0.07	0.03
MAX	0.67	0.65	0.98	1.1	0.47	1.4	1.5	0.10	0.91	0.68	0.99	0.16
MIN	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.01	0.00	0.00
CFSM	0.03	0.05	0.05	0.10	0.08	0.10	0.13	0.01	0.11	0.12	0.06	0.02
IN.	0.03	0.06	0.06	0.11	0.08	0.11	0.14	0.02	0.13	0.14	0.07	0.02
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2005												
MEAN	0.03	0.07	0.07	0.12	0.09	0.12	0.16	0.02	0.14	0.15	0.07	0.03
MAX	0.03	0.07	0.07	0.12	0.09	0.12	0.16	0.02	0.14	0.15	0.07	0.03
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	0.03	0.07	0.07	0.12	0.09	0.12	0.16	0.02	0.14	0.15	0.07	0.03
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
SUMMARY STATISTICS FOR 2005 WATER YEAR												
ANNUAL TOTAL	32.44											
ANNUAL MEAN	0.09											
HIGHEST DAILY MEAN	1.5 Apr 23											
LOWEST DAILY MEAN	0.00 Oct 1											
ANNUAL SEVEN-DAY MINIMUM	0.00 Oct 1											
MAXIMUM PEAK FLOW	e15 Jun 10											
MAXIMUM PEAK STAGE	e1.45 Jun 10											
INSTANTANEOUS LOW FLOW	0.00 Oct 1											
ANNUAL RUNOFF (CFSM)	0.072											
ANNUAL RUNOFF (INCHES)	0.97											
10 PERCENT EXCEEDS	0.22											
50 PERCENT EXCEEDS	0.02											
90 PERCENT EXCEEDS	0.00											

e Estimated.

391040084344200 West Branch Shepherd Creek at River Mile 0.01 near Mount Airy, Ohio

LOCATION.—Latitude 39°10'40", longitude 84°34'42", Hamilton County, Hydrologic Unit 05090203, on east side of driveway off Shepherd Creek Road, 1.0 mi south of U.S. Route 27 (Colerain Avenue), 0.02 mi north of Blue Spruce Road, 1.1 mi south-southwest of Mount Airy, Ohio, 0.4 mi upstream from confluence with West Fork.

DRAINAGE AREA.—0.23 mi².

PERIOD OF RECORD.—October 1, 2004, to September 30, 2005.

GAGE.—Water-stage recorder. Datum of gage is 725.50 ft above sea level.

REMARKS.—Records fair except for periods of estimated record and discharges less than 0.08 ft³/s, which are poor.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.04	0.03	e0.11	e0.92	e0.11	e0.35	0.13	e0.18	0.04	e0.63	e0.10	e0.18
2	e0.04	0.43	e0.05	e0.33	e0.15	e0.25	0.62	e0.17	0.05	0.05	e0.04	e0.18
3	e0.04	0.15	0.09	e3.7	e0.22	e0.24	0.21	e0.15	0.27	0.03	e0.04	e0.18
4	e0.04	1.1	0.07	e2.7	e0.22	e0.25	0.14	e0.13	0.15	0.02	e0.05	e0.18
5	e0.04	0.13	0.05	e1.6	e0.26	e0.33	0.12	e0.11	0.06	0.05	e5.7	e0.08
6	0.07	0.07	0.21	e0.78	e0.38	e0.23	0.10	e0.11	0.03	0.02	e19	e0.06
7	0.08	0.04	0.16	e0.12	e0.49	e0.28	0.16	e0.13	0.12	0.01	e13	e0.06
8	0.09	0.03	0.11	e0.94	e1.1	e0.21	0.11	e0.09	0.03	0.02	e6.2	e0.06
9	0.01	0.02	0.12	e0.09	e0.40	e0.19	0.09	e0.09	0.02	0.02	e0.38	e0.18
10	0.07	0.02	0.11	e0.14	e0.22	e0.17	e0.16	e0.08	0.85	0.01	e0.06	e0.18
11	0.06	0.62	0.12	e0.14	e0.17	e0.18	e0.15	e0.08	0.11	0.01	e0.06	e0.18
12	e0.06	1.0	0.12	e0.14	e0.15	e0.24	e0.19	e0.19	0.34	0.02	e0.05	e0.18
13	0.10	0.13	0.12	e0.23	e0.38	e0.19	e0.23	e0.18	0.19	0.30	e0.05	e0.18
14	0.03	0.07	0.12	e0.32	e0.59	e0.17	e0.13	e0.47	0.08	0.27	e0.05	e0.03
15	0.12	e0.05	0.12	e0.11	e0.31	e0.15	e0.12	e0.11	0.02	0.14	e0.05	e0.02
16	0.01	e0.05	0.12	e0.11	e0.29	e0.14	e0.10	e0.09	0.01	0.23	e3.1	e0.04
17	0.01	e0.04	0.12	e0.11	e0.37	e0.15	e0.10	0.05	0.01	e0.23	e10	e0.04
18	2.6	e0.06	0.12	e0.11	e0.31	e0.14	e0.10	0.05	0.01	0.04	e0.53	0.02
19	0.36	e0.80	0.13	e0.11	e0.26	e0.37	e0.09	0.18	0.00	0.06	e9.5	0.03
20	0.19	e0.20	0.13	e0.06	e0.23	e0.20	e0.11	0.10	0.01	0.74	e15	0.27
21	e0.07	e0.08	0.12	e0.03	e0.18	e0.17	e0.39	0.07	0.01	0.10	e13	0.05
22	0.04	e0.04	0.12	e0.03	e0.18	e0.36	e2.5	0.06	0.01	0.13	e2.8	0.04
23	0.28	e0.04	0.13	e0.12	e0.18	e2.7	e6.3	0.05	0.02	e0.21	e0.18	0.11
24	0.13	e0.21	0.13	e0.45	e0.24	e0.52	e0.78	0.05	0.03	e0.18	e0.18	0.04
25	0.05	e0.05	0.13	e0.01	e0.19	e0.36	e0.33	0.05	e0.11	e0.16	e0.18	0.05
26	0.03	e0.04	0.12	e0.01	e0.18	e0.27	e4.0	0.05	e0.10	e0.15	e0.18	0.38
27	0.13	e0.08	e0.14	e0.01	e0.17	e0.37	e0.89	0.05	e0.05	e0.16	e0.17	0.07
28	0.04	e0.04	e0.13	e0.01	e0.50	e16	e0.32	0.12	e0.04	e0.15	e0.18	0.04
29	0.04	e0.04	e0.75	e0.01	---	e0.94	e0.27	0.04	e0.04	e0.13	e0.17	0.09
30	0.09	e0.16	e2.7	e0.01	---	e0.44	e0.28	0.13	e0.46	e0.15	e0.17	0.04
31	0.04	---	e4.1	e0.06	---	e0.31	---	0.06	---	e4.6	e0.18	---
TOTAL	5.00	5.82	10.87	13.51	8.43	26.87	19.22	3.47	3.27	9.02	100.35	3.24
MEAN	0.16	0.19	0.35	0.44	0.30	0.87	0.64	0.11	0.11	0.29	3.24	0.11
MAX	2.6	1.1	4.1	3.7	1.1	16	6.3	0.47	0.85	4.6	19	0.38
MIN	0.01	0.02	0.05	0.01	0.11	0.14	0.09	0.04	0.00	0.01	0.04	0.02
CFSM	0.07	0.08	0.14	0.18	0.12	0.36	0.26	0.05	0.04	0.12	1.33	0.04
IN.	0.08	0.09	0.17	0.21	0.13	0.41	0.29	0.05	0.05	0.14	1.54	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2005

MEAN	0.16	0.19	0.35	0.44	0.30	0.87	0.64	0.11	0.11	0.29	3.24	0.11
MAX	0.16	0.19	0.35	0.44	0.30	0.87	0.64	0.11	0.11	0.29	3.24	0.11
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	0.16	0.19	0.35	0.44	0.30	0.87	0.64	0.11	0.11	0.29	3.24	0.11
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005

SUMMARY STATISTICS

FOR 2005 WATER YEAR

ANNUAL TOTAL	209.07
ANNUAL MEAN	0.57
HIGHEST DAILY MEAN	19 Aug 6
LOWEST DAILY MEAN	0.00 Jun 19
ANNUAL SEVEN-DAY MINIMUM	0.01 Jun 16
MAXIMUM PEAK FLOW	21 Jun 10
MAXIMUM PEAK STAGE	1.16 Jun 10
INSTANTANEOUS LOW FLOW	0.00 Sep 21
ANNUAL RUNOFF (CFSM)	0.24
ANNUAL RUNOFF (INCHES)	3.20
10 PERCENT EXCEEDS	0.62
50 PERCENT EXCEEDS	0.13
90 PERCENT EXCEEDS	0.03

e Estimated.

391040084343800 Middle Branch Shepherd Creek at River Mile 0.04 near Mount Airy, Ohio

LOCATION.—Latitude 39°10'40", longitude 84°34'38", Hamilton County, Hydrologic Unit 05090203, on west side of Shepherd Creek Road, approximately 0.04 mi upstream from mouth.

DRAINAGE AREA.—0.28 mi².

PERIOD OF RECORD.—October 1, 2004, to September 30, 2005.

GAGE.—Water-stage recorder. Datum of gage is 734.10 ft above sea level.

REMARKS.—Records fair except for periods of estimated record and discharges less than 0.05 ft³/s, which are poor.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.10	0.01	e0.09	0.59	e0.07	0.20	0.15	0.09	0.02	e0.24	e0.04	0.09
2	e0.20	0.28	e0.03	0.21	0.10	0.13	0.73	0.08	0.03	e0.09	e0.01	0.09
3	e0.30	0.08	e0.03	2.4	0.19	0.13	0.23	0.07	0.41	e0.09	0.01	0.09
4	e0.40	0.79	e0.02	e1.8	0.18	0.14	0.15	0.06	0.15	e0.09	0.01	0.09
5	e0.50	0.05	e0.01	e1.0	0.25	0.18	0.12	0.05	0.05	e0.18	3.4	e0.38
6	e0.60	0.01	0.13	e0.50	0.35	0.12	0.10	0.05	0.03	e0.14	12	e0.32
7	e0.67	0.01	0.37	e0.11	0.49	0.15	0.18	0.06	0.11	e0.13	7.6	e0.32
8	e0.76	0.01	0.09	e0.64	1.2	0.11	0.11	0.04	0.07	e0.15	3.7	e0.32
9	0.00	0.01	0.77	e0.09	0.37	0.10	0.09	0.04	0.03	e0.13	0.21	0.09
10	0.00	0.01	0.29	e0.09	0.20	0.08	0.08	0.03	2.3	e0.13	0.02	0.09
11	0.00	0.30	0.38	e0.09	0.13	0.09	0.07	0.03	0.22	e0.13	0.02	0.09
12	e0.00	0.57	0.16	e0.09	0.11	0.13	0.10	0.10	1.3	e0.13	0.01	0.09
13	0.08	0.05	0.20	e0.15	0.36	0.10	0.12	0.09	0.66	e0.47	0.01	0.09
14	0.03	e0.02	0.15	e0.24	0.58	0.08	0.06	0.27	0.36	e0.27	0.01	e0.34
15	0.05	0.01	0.11	e0.07	0.28	0.07	0.05	0.05	0.15	e1.1	0.01	e0.30
16	0.00	0.01	0.10	e0.07	0.26	0.07	0.04	0.03	0.11	e1.7	1.9	e0.40
17	0.00	0.01	0.09	e0.07	e0.24	0.07	0.04	0.02	0.08	e1.7	6.2	0.43
18	1.5	e0.02	0.09	e0.07	e0.20	0.07	0.04	0.02	0.06	e0.12	0.31	0.15
19	0.17	e0.47	0.07	e0.07	e0.17	0.21	0.03	0.16	0.06	e0.17	5.8	e0.00
20	0.05	e0.10	0.05	e0.07	e0.15	0.10	0.05	0.05	e0.22	e0.43	8.8	2.1
21	0.01	e0.03	0.06	e0.05	e0.12	0.08	0.22	0.05	e0.12	e0.20	7.8	0.58
22	0.00	e0.01	0.14	e0.05	0.09	0.20	1.5	0.02	e0.09	e0.32	1.7	0.44
23	0.10	e0.21	0.18	e0.11	0.09	1.6	3.8	0.02	e0.08	e0.11	0.09	0.69
24	0.05	e0.13	0.11	e0.32	0.13	0.30	0.46	0.01	e0.05	e0.09	0.09	0.58
25	0.01	e0.26	0.08	e0.04	0.10	0.20	0.18	0.01	e0.09	e0.08	0.09	0.50
26	0.00	e0.21	0.08	e0.04	0.09	0.15	2.4	0.02	e0.08	e0.07	0.09	2.8
27	0.07	e0.37	0.09	e0.04	0.09	0.21	0.52	0.01	e0.15	e0.08	0.09	0.63
28	0.01	e0.23	0.08	e0.04	0.29	9.9	0.18	0.11	e0.14	e0.07	0.09	0.55
29	0.01	e0.21	0.48	e0.04	---	0.55	0.14	0.02	e0.03	e0.06	0.09	0.71
30	0.03	e0.11	1.7	e0.04	---	0.25	0.15	0.12	e0.20	e0.07	0.09	0.46
31	0.01	---	2.6	e0.04	---	0.17	---	0.03	---	e2.8	0.09	---
TOTAL	5.71	4.59	8.83	9.23	6.88	15.94	12.09	1.81	7.45	11.54	60.38	13.81
MEAN	0.18	0.15	0.28	0.30	0.25	0.51	0.40	0.06	0.25	0.37	1.95	0.46
MAX	1.5	0.79	2.6	2.4	1.2	9.9	3.8	0.27	2.3	2.8	12	2.8
MIN	0.00	0.01	0.01	0.04	0.07	0.07	0.03	0.01	0.02	0.06	0.01	0.00
CFSM	0.06	0.05	0.10	0.10	0.08	0.18	0.14	0.02	0.08	0.13	0.66	0.16
IN.	0.07	0.06	0.11	0.12	0.09	0.20	0.15	0.02	0.09	0.15	0.77	0.18
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2005												
MEAN	0.18	0.15	0.28	0.30	0.25	0.51	0.40	0.06	0.25	0.37	1.95	0.46
MAX	0.18	0.15	0.28	0.30	0.25	0.51	0.40	0.06	0.25	0.37	1.95	0.46
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	0.18	0.15	0.28	0.30	0.25	0.51	0.40	0.06	0.25	0.37	1.95	0.46
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
SUMMARY STATISTICS FOR 2005 WATER YEAR												
ANNUAL TOTAL	158.26											
ANNUAL MEAN	0.43											
HIGHEST DAILY MEAN	12 Aug 6											
LOWEST DAILY MEAN	0.00 Oct 9											
ANNUAL SEVEN-DAY MINIMUM	0.02 Oct 25											
MAXIMUM PEAK FLOW	52 Jun 10											
MAXIMUM PEAK STAGE	2.11 Jun 10											
INSTANTANEOUS LOW FLOW	0.00 Jun 30											
ANNUAL RUNOFF (CFSM)	0.15											
ANNUAL RUNOFF (INCHES)	2.01											
10 PERCENT EXCEEDS	0.68											
50 PERCENT EXCEEDS	0.10											
90 PERCENT EXCEEDS	0.02											

e Estimated.

391035084344300 East Branch Shepherd Creek near Mount Airy, Ohio

LOCATION.—Latitude 39°10'35", longitude 84°34'43", Hamilton County, Hydrologic Unit 05090203, on west side of Shepherd Creek Road, at the intersection of Blue Spruce Road and Shepherd Creek Road, 1.0 mi south of U.S. Route 27 (Colerain Avenue), 1.1 mi south-southwest of Mount Airy, Ohio, 0.9 mi upstream from confluence with West Fork.

DRAINAGE AREA.—0.14 mi².

PERIOD OF RECORD.—October 1, 2004, to September 30, 2005.

GAGE.—Water-stage recorder. Datum of gage is 719.94 ft above sea level.

REMARKS.—Records fair except for periods of estimated record and discharges less than 1.5 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.51	e0.52	1.0	1.9	e0.35	e0.32	e0.30	e0.27	0.22	0.28	0.00	0.00
2	e0.51	0.80	0.60	0.99	e0.27	e0.29	e0.62	e0.26	0.24	0.01	0.00	0.00
3	e0.51	0.67	0.51	4.0	e0.32	e0.29	e0.35	e0.26	0.26	0.00	0.00	0.01
4	e0.51	2.0	0.48	e3.0	e0.32	e0.29	e0.30	e0.25	0.33	0.00	0.00	0.08
5	e0.51	0.61	0.48	e2.0	e0.35	e0.32	e0.28	e0.24	0.24	0.03	0.00	0.01
6	e0.51	0.53	0.65	e1.0	e0.41	e0.28	e0.27	e0.24	0.21	0.03	0.00	0.00
7	e0.51	0.50	1.0	e0.26	e0.48	e0.30	e0.32	e0.25	0.22	0.01	0.00	0.00
8	e0.51	0.48	0.62	e0.74	e0.86	e0.28	e0.28	e0.24	0.24	0.01	0.00	0.00
9	e0.50	0.47	1.7	e0.24	e0.43	e0.27	e0.26	e0.24	0.21	0.02	0.00	0.00
10	e0.50	0.46	1.3	e0.24	e0.32	e0.26	e0.26	e0.23	1.5	0.01	0.00	0.00
11	e0.50	1.0	e1.5	e0.24	e0.29	e0.27	e0.26	e0.23	0.62	0.00	0.00	0.00
12	e0.51	2.1	e0.92	e0.24	e0.28	e0.29	e0.27	e0.27	0.79	0.00	0.00	0.00
13	e0.70	0.62	e1.0	e0.30	e0.41	e0.27	e0.28	e0.27	0.93	0.20	0.00	0.00
14	e0.57	0.53	e0.89	e0.38	e0.53	e0.26	e0.25	e0.37	0.39	0.05	0.00	0.00
15	e0.64	0.51	e0.79	e0.23	e0.37	e0.26	e0.25	e0.24	0.30	0.00	0.00	0.00
16	e0.50	0.50	e0.76	e0.25	e0.36	e0.25	e0.24	0.37	0.25	0.00	0.00	0.00
17	e0.50	0.48	0.46	e0.30	e0.32	e0.26	e0.24	0.34	0.21	0.00	0.00	0.00
18	e4.5	0.48	0.48	e0.35	e0.30	e0.25	e0.24	0.26	0.21	0.00	0.00	0.00
19	e0.95	3.1	0.45	e0.42	e0.29	e0.33	e0.23	0.37	0.20	0.01	0.00	0.00
20	e0.63	1.1	0.54	0.53	e0.28	e0.27	e0.24	0.29	0.17	0.58	0.00	0.00
21	e0.52	0.56	0.46	0.47	e0.27	e0.26	e0.34	0.21	0.16	0.09	0.00	0.00
22	e0.50	e0.51	0.45	0.47	e0.27	e0.33	e1.0	0.21	0.13	0.00	0.00	0.00
23	e0.77	e0.51	0.53	0.66	e0.27	e1.1	e2.3	0.20	0.12	0.00	0.00	0.00
24	e0.63	0.87	0.48	1.4	e0.29	e0.38	e0.47	0.18	0.10	0.00	0.00	0.00
25	e0.52	0.52	0.48	0.42	e0.27	e0.33	e0.32	0.20	0.07	0.00	0.00	0.00
26	e0.50	0.52	0.38	0.42	e0.27	e0.30	e1.5	0.20	0.00	0.04	0.00	0.00
27	e0.67	0.54	0.35	0.40	e0.26	e0.33	e0.51	0.19	0.00	0.10	0.00	0.00
28	e0.52	0.56	0.42	0.42	e0.38	e5.7	e0.31	0.21	0.00	0.08	0.00	0.00
29	e0.51	0.51	0.71	0.42	---	e0.52	e0.30	0.21	0.00	0.09	0.00	0.00
30	e0.57	0.64	2.8	0.42	---	e0.36	e0.30	0.28	0.02	0.00	0.00	0.00
31	e0.52	---	5.5	0.42	---	e0.31	---	0.26	---	0.00	0.00	---
TOTAL	21.31	23.20	28.69	23.53	9.82	15.53	13.09	7.84	8.34	1.64	0.00	0.10
MEAN	0.69	0.77	0.93	0.76	0.35	0.50	0.44	0.25	0.28	0.05	0.00	0.00
MAX	4.5	3.1	5.5	4.0	0.86	5.7	2.3	0.37	1.5	0.58	0.00	0.08
MIN	0.50	0.46	0.35	0.23	0.26	0.25	0.23	0.18	0.00	0.00	0.00	0.00
CFSM	0.81	0.91	1.09	0.89	0.41	0.59	0.51	0.30	0.33	0.06	0.00	0.00
IN.	0.93	1.02	1.26	1.03	0.43	0.68	0.57	0.34	0.36	0.07	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2005

MEAN	0.69	0.77	0.93	0.76	0.35	0.50	0.44	0.25	0.28	0.05	0.00	0.00
MAX	0.69	0.77	0.93	0.76	0.35	0.50	0.44	0.25	0.28	0.05	0.00	0.00
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	0.69	0.77	0.93	0.76	0.35	0.50	0.44	0.25	0.28	0.05	0.00	0.00
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005

SUMMARY STATISTICS

FOR 2005 WATER YEAR

ANNUAL TOTAL	153.09
ANNUAL MEAN	0.42
HIGHEST DAILY MEAN	5.7 Mar 28
LOWEST DAILY MEAN	0.00 Jun 26
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 30
MAXIMUM PEAK FLOW	17 Jun 10
MAXIMUM PEAK STAGE	1.33 Jun 10
INSTANTANEOUS LOW FLOW	0.00 Aug 30
ANNUAL RUNOFF (CFSM)	0.49
ANNUAL RUNOFF (INCHES)	6.70
10 PERCENT EXCEEDS	0.78
50 PERCENT EXCEEDS	0.28
90 PERCENT EXCEEDS	0.00

e Estimated.

Surface-Water Records—Great Miami River Basin

03260706 Bokengehalas Creek at De Graff, Ohio

LOCATION.—Latitude 40°18'40", longitude 84°54'45", sec. 6, R. 13, T. 3, Logan County, Hydrologic Unit 05080001, at DeGraff on right bank 100 ft downstream from bridge on County Road 11, and 1.1 mi upstream from mouth.

DRAINAGE AREA.— 40.4 mi².

PERIOD OF RECORD.—June 1992 to September 1996, October 1997 to September 2002 recording crest-stage gage; October 2002 to current year. October 1957 to May 1992, at site 2.9 mi upstream published as "near DeGraff" (station 03260700), are not equivalent because of difference in drainage areas.

GAGE.—Water-stage recorder. Datum of gage is 977.38 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor. Diurnal fluctuation caused by municipal plants in Bellefontaine, 12.7 mi upstream and DeGraff, 0.25 mi upstream. Since storage capacity is small, daily flows are not affected appreciably.

COOPERATION.—Base data furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	56	326	55	58	57	74	29	19	10	22
2	12	20	45	169	53	52	159	65	27	15	10	13
3	12	28	36	408	e51	51	194	60	28	14	9.8	11
4	12	31	31	547	e50	50	103	55	27	14	9.3	9.9
5	12	24	28	556	e50	60	79	52	25	16	11	9.0
6	12	18	27	804	e70	91	67	50	27	14	10	8.8
7	11	16	32	427	e130	121	63	48	25	14	9.4	8.6
8	11	14	36	280	251	85	59	45	24	13	8.8	8.7
9	10	13	31	235	191	67	53	44	23	12	8.3	8.5
10	10	13	38	251	141	60	49	41	29	12	7.8	8.0
11	10	13	41	332	101	58	47	40	87	12	9.0	7.6
12	11	e14	37	1140	86	57	45	38	41	11	8.4	7.5
13	11	e13	32	949	81	54	48	40	55	11	7.3	7.7
14	11	e13	28	630	88	52	42	66	38	12	6.8	7.4
15	15	e13	26	315	86	50	40	63	30	13	10	7.6
16	13	e13	25	218	91	47	38	47	29	21	14	88
17	11	16	23	175	97	45	37	43	26	15	9.2	34
18	15	e38	23	144	78	44	37	40	24	13	8.4	20
19	15	28	21	137	70	44	36	51	22	29	7.8	16
20	12	29	27	126	70	50	35	81	22	14	7.3	15
21	11	22	21	112	103	44	69	53	21	13	8.7	14
22	11	19	20	105	87	41	56	46	21	12	7.2	13
23	11	18	36	91	73	60	283	45	20	11	7.3	56
24	16	46	32	84	67	53	277	41	19	11	6.9	74
25	12	134	e28	84	61	65	205	38	17	11	6.2	70
26	11	58	e25	79	58	113	162	36	17	12	6.3	136
27	11	44	e21	70	54	75	218	34	16	16	7.5	78
28	11	44	e18	65	55	e120	121	34	16	14	7.1	46
29	12	38	e17	64	---	111	98	34	17	12	6.2	58
30	12	34	e26	62	---	78	87	31	17	11	17	43
31	11	---	364	59	---	64	---	30	---	10	99	---
TOTAL	368	835	1251	9044	2448	2020	2864	1465	819	427	362.0	906.3
MEAN	11.9	27.8	40.4	292	87.4	65.2	95.5	47.3	27.3	13.8	11.7	30.2
MAX	16	134	364	1140	251	121	283	81	87	29	99	136
MIN	10	11	17	59	50	41	35	30	16	10	6.2	7.4
MED	11	20	28	175	76	58	61	45	24	13	8.4	14
CFSM	0.29	0.69	1.00	7.22	2.16	1.61	2.36	1.17	0.68	0.34	0.29	0.75
IN.	0.34	0.77	1.15	8.33	2.25	1.86	2.64	1.35	0.75	0.39	0.33	0.83
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993-2005, BY WATER YEAR (WY)												
MEAN	15.6	37.7	40.2	78.5	51.3	61.9	74.8	66.8	56.3	45.3	27.8	25.0
MAX	35.8	85.5	85.1	292	87.4	118	170	140	127	139	64.5	88.5
(WY)	2004	1993	2002	2005	2005	1997	2002	1996	2004	2003	2003	2003
MIN	5.94	7.60	9.40	17.2	17.9	31.7	39.8	21.7	13.3	9.62	9.10	6.37
(WY)	1995	1995	1995	1995	1995	2001	2004	1999	1999	1994	1994	1994
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1993-2005		
ANNUAL TOTAL				17482			22809.3					
ANNUAL MEAN				47.8			62.5			51.8		
HIGHEST ANNUAL MEAN										62.5		
LOWEST ANNUAL MEAN										35.2		
HIGHEST DAILY MEAN				641 Jun 14			1140 Jan 12			1140 Jan 12		
LOWEST DAILY MEAN				10 Oct 9			6.2 Aug 25			5.0 Oct 3		
ANNUAL SEVEN-DAY MINIMUM				11 Oct 7			6.8 Aug 23			5.3 Oct 2		
MAXIMUM PEAK FLOW							1370 Jan 12a			1370 Jan 12		
MAXIMUM PEAK STAGE							7.95 Jan 12			7.95 Jan 12		
INSTANTANEOUS LOW FLOW							4.5 Aug 25			4.5 Aug 25		
ANNUAL RUNOFF (CFSM)				1.18			1.55			1.28		
ANNUAL RUNOFF (INCHES)				16.10			21.00			17.44		
10 PERCENT EXCEEDS				76			120			107		
50 PERCENT EXCEEDS				32			32			32		
90 PERCENT EXCEEDS				13			10			10		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03261500 Great Miami River at Sidney, Ohio

LOCATION.—Latitude 40°17'13", longitude 84°09'00", Shelby County, Hydrologic Unit 05080001, on right bank 50 ft upstream from North Street bridge in Sidney, Ohio, and 0.5 mi downstream from Tawawa Creek.

DRAINAGE AREA.—541 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft downstream at datum 1.76 ft higher; Sept. 18, 1919–Aug. 1925, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Pumpage for City of Sidney averaged 5.59 ft³/s in 2005 and is returned as sewage 1.2 mi downstream from the station. Some regulation by Indian Lake, 28 mi upstream, capacity, 45,900 acre-ft; water diverted into Miami and Erie Canal at Port Jefferson, 2.8 mi upstream, prior to 1926; amount of diversion not published. Sediment data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 19.6 ft, present datum; discharge, 44,000 ft³/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	e70	e730	e6530	e372	500	679	1150	196	406	89	1260
2	e74	e115	e1060	e3730	e340	518	1090	877	186	462	76	1000
3	e60	e200	e770	e4360	e330	401	2100	660	183	257	64	549
4	e52	e350	e598	e6400	e330	387	1560	536	174	153	61	266
5	e48	e440	e469	e9490	e330	512	1110	473	171	119	59	164
6	e46	e360	e390	e12200	e670	1060	826	e425	174	110	70	125
7	e49	e280	e383	e8940	e1500	1450	669	390	195	94	87	96
8	e45	e190	e555	e6810	3600	1260	647	390	337	87	76	84
9	e43	e180	e584	e4780	4370	971	584	e342	231	81	68	96
10	e41	e150	e537	e3690	3130	695	460	308	186	79	64	129
11	e70	e120	e565	e4130	2280	498	409	289	277	74	59	110
12	e42	e115	e596	e10400	1650	467	393	297	231	71	67	84
13	e54	e140	e527	e9160	1400	437	395	327	406	69	64	71
14	e49	e170	e450	e8230	1390	371	417	378	423	71	60	62
15	e52	e140	e382	e6050	1490	332	336	696	293	79	79	60
16	e63	e110	e285	e3710	1500	329	280	587	243	88	92	471
17	e61	e96	e249	e2200	1690	312	247	421	233	94	79	1060
18	e60	e125	e247	e1510	1330	302	242	343	192	92	69	530
19	e96	e312	e239	e1200	1040	298	236	360	175	128	63	274
20	e84	e586	e171	e923	854	323	236	818	162	208	77	175
21	e74	e635	e148	e764	840	369	399	750	146	125	77	142
22	e78	e455	e122	e669	1060	339	503	527	134	93	71	121
23	e84	e342	e106	e551	948	425	2850	e430	135	96	67	204
24	e100	e336	e100	e516	793	594	3990	422	130	84	61	1700
25	e92	e1850	e97	e530	664	666	3690	385	151	76	56	3000
26	e92	e1740	e91	e538	533	1710	3070	302	126	83	52	3080
27	e88	e1110	e91	e475	469	1350	3300	263	121	97	51	2620
28	e83	e818	e98	e399	452	1630	2550	224	122	344	52	1860
29	e78	e717	e125	e431	---	1730	1940	240	117	232	50	1430
30	e73	e598	e206	e406	---	1190	1490	237	214	131	153	1190
31	e70	---	e2830	e386	---	880	---	218	---	101	1000	---
TOTAL	2091	12850	13801	120108	35355	22306	36698	14065	6064	4284	3113	22013
MEAN	67.5	428	445	3874	1263	720	1223	454	202	138	100	734
MAX	100	1850	2830	12200	4370	1730	3990	1150	423	462	1000	3080
MIN	41	70	91	386	330	298	236	218	117	69	50	60
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926-2005, BY WATER YEAR (WY)												
MEAN	165	317	512	765	770	948	881	563	453	325	183	150
MAX	1717	1876	2373	3874	2186	2507	2500	2010	2073	2376	1173	2365
(WY)	1927	1973	1991	2005	1950	1927	1957	1996	1958	2003	1973	1926
MIN	21.9	36.3	41.3	42.1	49.5	106	164	70.6	36.1	24.6	28.5	21.2
(WY)	1964	1935	1935	1977	1964	1941	1946	1934	1988	1934	1963	1963
SUMMARY STATISTICS												
ANNUAL TOTAL	FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR				WATER YEARS 1926-2005				
ANNUAL MEAN	204589			292748								
HIGHEST ANNUAL MEAN	559			802				501				
LOWEST ANNUAL MEAN								963				
HIGHEST DAILY MEAN								141				
LOWEST DAILY MEAN								1931				
ANNUAL SEVEN-DAY MINIMUM	6690			Jan 5				e12200				
MAXIMUM PEAK FLOW	41			Oct 10				41				
MAXIMUM PEAK STAGE	46			Oct 4				46				
INSTANTANEOUS LOW FLOW								e12400				
10 PERCENT EXCEEDS								Jan 6a				
50 PERCENT EXCEEDS								e14.20				
90 PERCENT EXCEEDS								Jan 6				
	1210			1730				17400				
	265			327				Mar 21				
	70			70				8.0				
								15				
								20700				
								15.91				
								1.5				
								Aug 13				
								1290				
								186				
								46				

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03261950 Loramie Creek near Newport, Ohio

LOCATION.—Latitude 40°18'25", longitude 84°23'02", in SE ¼ sec, 24, T.11 N., R.4 E., Shelby County, Hydrologic Unit 05080001, right bank at downstream side of bridge on Cardo Roman Road, 1.1 mi northwest of Newport, Ohio, 3 mi south of Fort Loramie, Ohio, 3 mi downstream from Mile Creek, and at mile 16.5.

DRAINAGE AREA.—152 mi².

PERIOD OF RECORD.—October 1964 to current year.

REVISED RECORDS.—WRD Ohio 1971: 1966(M). WDR Ohio 1985-1: 1984(M).

GAGE.—Water-stage recorder. Datum of gage is 926.57 ft above sea level. October 1, 1964–September 30, 1980, water-stage recorder at same site at datum 0.43 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. Some regulation by Lake Loramie 5 mi upstream, capacity, 13,000 acre-ft. Sediment data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 17.0 ft and flood of Jan. 21, 1959, a stage of 14.2 ft, from flood profile furnished by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	13	333	2180	e26	67	181	152	12	741	8.0	384
2	5.6	40	329	1320	e25	70	385	110	10	380	5.4	174
3	6.1	104	198	1470	e24	78	555	85	9.6	161	3.8	76
4	5.5	88	125	2750	e24	68	311	70	9.4	78	3.1	38
5	4.4	137	93	2790	e23	96	219	56	9.0	45	3.6	20
6	4.5	75	78	4210	e30	245	190	49	41	28	4.5	11
7	5.3	48	116	2980	279	295	172	47	34	18	3.7	7.0
8	5.1	28	248	1440	1490	242	65	42	25	11	3.4	5.2
9	5.4	13	175	696	1570	181	49	35	19	8.2	3.4	23
10	5.3	7.7	173	730	1010	150	44	30	14	6.1	2.8	57
11	3.6	8.5	166	1240	440	159	39	27	30	4.7	3.2	34
12	3.8	36	153	3880	239	152	37	33	20	4.0	3.6	18
13	6.1	30	118	3940	217	142	51	19	60	4.1	4.5	9.3
14	7.5	14	94	2710	594	122	43	29	65	4.4	3.6	6.0
15	9.2	8.2	67	1450	569	72	33	63	36	7.0	8.0	4.5
16	12	7.7	55	587	502	22	30	54	25	7.7	11	83
17	6.0	9.0	e48	298	587	23	30	41	16	8.0	6.2	115
18	7.6	21	e41	199	288	40	32	31	12	4.9	3.8	67
19	16	66	e35	161	177	26	33	59	8.7	9.7	3.1	37
20	10	231	e31	123	135	27	33	357	5.7	7.3	2.8	39
21	6.4	159	e28	97	186	43	127	203	4.0	6.1	2.3	32
22	4.6	90	e26	87	192	88	e240	114	3.3	5.4	2.1	21
23	5.0	61	e25	70	150	102	e600	85	3.0	4.7	2.7	63
24	22	194	e23	57	123	94	e1500	62	3.0	3.5	2.8	375
25	16	1050	e22	e50	93	133	e1200	45	5.6	3.3	2.4	1290
26	6.6	623	e21	e43	82	526	864	32	6.5	3.1	2.6	1750
27	5.9	284	e20	e36	68	354	1180	26	5.2	74	3.1	1750
28	6.4	216	e19	e32	69	331	623	24	98	91	4.4	787
29	4.7	175	e24	e30	---	326	320	21	219	48	3.1	354
30	3.1	133	107	e29	---	238	220	18	396	24	18	254
31	6.6	---	1560	e27	---	200	---	15	---	13	375	---
TOTAL	221.1	3970.1	4551	35712	9212	4712	9406	2034	1205.0	1814.2	510.0	7884.0
MEAN	7.13	132	147	1152	329	152	314	65.6	40.2	58.5	16.5	263
MAX	22	1050	1560	4210	1570	526	1500	357	396	741	375	1750
MIN	3.1	7.7	19	27	23	22	30	15	3.0	3.1	2.1	4.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-2005, BY WATER YEAR (WY)

MEAN	40.9	107	178	193	214	267	235	138	122	122	46.2	35.6
MAX	360	656	802	1152	613	826	700	437	561	1025	322	302
(WY)	1987	1973	1991	2005	1975	1978	1972	1996	1981	2003	1995	2003
MIN	0.75	1.32	1.63	0.63	14.1	37.6	23.1	7.14	1.47	0.51	0.22	0.53
(WY)	1965	1981	1977	1977	1978	2001	1971	1988	1988	1965	1965	1966

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965-2005	
ANNUAL TOTAL	45086.8		81231.4			
ANNUAL MEAN	123		223		141	
HIGHEST ANNUAL MEAN					249	
LOWEST ANNUAL MEAN					39.6	
HIGHEST DAILY MEAN	3560	Jan 5	4210	Jan 6	6170	Jul 9
LOWEST DAILY MEAN	2.6	Sep 6	2.1	Aug 22	0.10	Aug 15
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 10	2.5	Aug 20	0.13	Sep 9
MAXIMUM PEAK FLOW			4640	Jan 12a	6500	Dec 31
MAXIMUM PEAK STAGE			13.98	Jan 12	15.51	Jul 9
INSTANTANEOUS LOW FLOW					0.10	Aug 15
10 PERCENT EXCEEDS	253		561		357	
50 PERCENT EXCEEDS	27		40		24	
90 PERCENT EXCEEDS	4.7		4.5		1.8	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03262000 Loramie Creek at Lockington, Ohio

LOCATION.—Latitude 40°12'35", longitude 84°14'32", in NE ¼ sec. 30, T.7 N., R.6 E., Shelby County, Hydrologic Unit 05080001, on left bank at downstream side of county road bridge, 1,300 ft downstream from Lockington Dam, 0.5 mi northwest of Lockington, Ohio, and at mile 1.9.

DRAINAGE AREA.—257 mi².

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, National Geodetic Vertical Datum of 1912. Prior to July 3, 1924, nonrecording gage at same site at datum 75.96 ft higher; July 3, 1924–Aug. 17, 1926, nonrecording gage and Aug. 18–Sept. 30, 1926, water-stage recorder at same site at datum 74.96 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. Slight regulation by Lake Loramie 18 mi upstream, capacity, 13,000 acre-ft. Flood flow regulated by Lockington retarding basin beginning in 1921.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 10,400 ft³/s May 7, 1916, gage height, 86.4 ft, present datum, from rating curve extended above 5,400 ft³/s.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 91.6 ft, present datum; discharge, 25,600 ft³/s, at site upstream from Turtle Creek, drainage area, 211 mi², computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	13	14	472	3330	e68	129	220	262	38	1080	23	432	
2	9.6	e44	570	2160	e66	111	636	196	34	589	18	215	
3	8.0	116	317	2120	e62	119	1130	158	32	246	16	107	
4	7.6	106	200	3630	e60	116	541	133	32	130	14	64	
5	7.2	169	138	4080	e58	134	327	113	31	80	e15	45	
6	7.1	110	113	5380	e56	321	248	98	32	57	16	27	
7	6.9	71	117	5200	441	370	227	90	52	41	16	20	
8	6.6	54	336	4080	2530	309	168	86	53	31	15	16	
9	6.6	39	261	1770	2340	223	103	78	49	25	14	12	
10	6.3	30	252	1280	1620	171	85	e70	39	20	15	38	
11	6.4	26	251	1930	778	170	75	e58	37	17	e14	39	
12	7.2	36	236	4880	401	166	69	61	47	e14	e16	21	
13	7.6	53	184	5410	321	155	73	62	79	13	e20	15	
14	7.8	40	138	5170	777	144	75	62	116	12	e18	20	
15	10	29	105	4040	996	115	62	109	77	13	e29	17	
16	11	26	79	1410	844	74	54	101	55	25	e26	103	
17	12	26	71	541	1080	53	50	82	43	20	24	140	
18	12	32	66	355	528	54	50	68	34	25	17	98	
19	17	68	61	e300	305	64	50	69	30	28	e14	64	
20	20	317	40	e240	232	61	49	395	26	32	e12	51	
21	15	216	51	e200	336	56	87	334	22	25	e9.5	54	
22	12	126	e40	e170	336	78	205	194	19	22	e7.0	40	
23	12	88	e32	e150	252	123	2110	142	17	19	9.8	35	
24	17	248	e31	e130	206	140	3090	111	18	17	9.4	303	
25	26	1440	e30	e110	174	193	2590	87	24	16	9.4	1490	
26	23	1060	e28	e100	144	971	1370	71	44	10	9.4	1810	
27	16	459	e27	e90	129	581	1900	60	24	15	9.4	1980	
28	14	317	e26	e84	122	603	1040	54	28	87	9.1	1020	
29	13	269	e25	e80	---	635	534	51	180	75	8.9	426	
30	13	190	e43	e74	---	362	351	49	632	48	15	302	
31	11	---	2290	e72	---	267	---	43	---	31	362	---	
TOTAL	361.9	5819	6630	58566	15262	7068	17569	3547	1944	2863	810.9	9004	
MEAN	11.7	194	214	1889	545	228	586	114	64.8	92.4	26.2	300	
MAX	26	1440	2290	5410	2530	971	3090	395	632	1080	362	1980	
MIN	6.3	14	25	72	56	53	49	43	17	10	7.0	12	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921-2005, BY WATER YEAR (WY)													
MEAN	53.3	127	229	347	347	447	388	214	188	139	67.2	55.0	
MAX	540	1025	1203	1889	1119	1235	1301	1017	1754	1450	682	1092	
(WY)	1987	1973	1991	2005	1950	1978	1922	1933	1958	2003	1995	1926	
MIN	2.92	4.64	4.59	4.35	9.19	21.4	43.0	11.9	9.23	5.35	3.37	2.46	
(WY)	1964	1964	1964	1977	1964	1941	1971	1941	1988	1936	1936	1983	
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR		WATER YEARS 1921-2005			
ANNUAL TOTAL				74371.6				129444.8					
ANNUAL MEAN				203				355		216			
HIGHEST ANNUAL MEAN										413			
LOWEST ANNUAL MEAN										53.0			
HIGHEST DAILY MEAN				3830		Jan 5		5410		Jan 13		6570	
LOWEST DAILY MEAN				6.3		Oct 10		6.3		Oct 10		0.40	
ANNUAL SEVEN-DAY MINIMUM				6.7		Oct 5		6.7		Oct 5		1.6	
MAXIMUM PEAK FLOW								5620		Jan 6		6710	
MAXIMUM PEAK STAGE								84.23		Jan 6		85.00	
INSTANTANEOUS LOW FLOW												0.51	
10 PERCENT EXCEEDS				451				981		545			
50 PERCENT EXCEEDS				68				69		44			
90 PERCENT EXCEEDS				10				13		7.3			

e Estimated.

03262700 Great Miami River at Troy, Ohio

LOCATION.—Latitude 40°02'25", longitude 84°11'52", Miami County, Hydrologic Unit 05080001, 400 ft downstream from B & O Railroad bridge, 1,300 ft downstream from bridge on State Highway 55 at Troy, Ohio, 1.2 mi upstream from small left bank tributary, 2.3 mi downstream from Spring Creek, and at mile 105.

DRAINAGE AREA.—926 mi².

PERIOD OF RECORD.—Water years 1961, 1962 (occasional low-flow measurements, published as Miami River at Troy). October 1962 to current year.

GAGE.—Water-stage recorder. Datum of gage is 810.67 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor. Flood flow regulated by retarding basin on Loramie Creek, 18 mi upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft, 54 mi upstream. Water supply for City of Troy averaged 7.79 ft³/s in 2005 and is returned as sewage 1 mi downstream from the station. Water-quality and sediment data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of June 11, 1958, reached a stage of 16.4 ft; discharge, 21,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	130	1180	9020	585	771	e1320	e1820	348	1630	e147	e1720
2	132	188	1730	6930	533	766	e1590	e1340	308	1190	e124	e1360
3	115	353	1290	7970	532	703	e4070	e1070	288	716	e124	e972
4	96	671	985	11800	519	662	e2990	e940	281	412	103	e560
5	90	863	760	13700	510	e858	e2070	e840	261	282	131	e270
6	84	730	622	18000	530	1210	e1550	e760	245	233	91	e221
7	91	466	602	15000	927	1640	e1230	e700	e298	198	102	e173
8	83	347	872	11300	5540	1560	e1030	e660	379	122	115	e143
9	79	322	938	7480	5880	1260	e827	e640	366	135	106	e135
10	79	274	867	5330	4830	998	e759	e600	286	130	95	e100
11	146	222	907	5680	3060	855	e656	e560	282	119	61	e150
12	77	216	959	15000	2080	804	e587	520	362	117	60	e140
13	100	271	852	15000	1620	748	e518	542	533	111	98	e120
14	93	334	723	14400	1900	680	e552	632	636	107	118	e110
15	95	252	606	11600	2480	607	e518	900	491	106	93	e100
16	115	192	447	7000	2180	564	e484	877	370	137	139	e1790
17	113	173	384	4030	2840	e520	e381	698	331	142	130	e1820
18	114	181	376	2670	1940	e500	e381	591	303	141	114	e1140
19	184	455	364	2060	1410	e500	e243	e741	255	158	108	e584
20	150	905	e260	1560	1180	e520	e312	e1610	238	232	119	e463
21	138	1020	e220	1270	1320	546	e346	e1720	222	239	133	e318
22	145	738	e180	1100	1500	e560	e1030	e1200	198	173	105	e245
23	155	544	155	898	1280	e620	e3950	e889	188	136	107	e173
24	192	525	e145	830	1110	728	e9070	669	185	133	102	e633
25	173	2880	e140	e848	983	916	e8800	633	184	167	e100	e4360
26	175	3010	e130	862	e890	e2450	e6430	543	268	115	e100	e5300
27	175	1920	e130	762	e825	e2520	e6940	451	196	125	e99	e6080
28	160	1380	e140	635	748	e2810	e5220	409	254	261	e98	e4170
29	148	1180	e180	679	---	e3660	e3400	380	267	417	e105	e2420
30	136	980	e300	642	---	e2310	e2480	389	645	267	e124	e1400
31	131	---	4250	609	---	e1730	---	373	---	186	e947	---
TOTAL	3939	21722	21694	194665	49732	35576	69734	24697	9468	8637	4198	37170
MEAN	127	724	700	6280	1776	1148	2324	797	316	279	135	1239
MAX	192	3010	4250	18000	5880	3660	9070	1820	645	1630	947	6080
MIN	77	130	130	609	510	500	243	373	184	106	60	100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963-2005, BY WATER YEAR (WY)

MEAN	292	627	1009	1059	1221	1599	1536	1016	816	684	353	242
MAX	2268	3824	3949	6280	3403	4005	4032	3294	2858	4440	2246	1694
(WY)	1987	1973	1991	2005	1975	1963	1964	1996	1981	2003	1995	2003
MIN	24.9	49.4	49.2	34.6	58.7	308	270	140	65.9	65.2	41.0	24.1
(WY)	1964	1964	1977	1977	1964	1981	1971	1988	1988	1965	1965	1963

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963-2005	
ANNUAL TOTAL	316134		481232			
ANNUAL MEAN	864		1318		869	
HIGHEST ANNUAL MEAN					1662	
LOWEST ANNUAL MEAN					300	
HIGHEST DAILY MEAN	11900	Jan 5	18000	Jan 6	18900	Aug 9
LOWEST DAILY MEAN	74	Sep 23	60	Aug 12	4.3	Jul 17
ANNUAL SEVEN-DAY MINIMUM	83	Sep 23	86	Oct 4	19	Oct 6
MAXIMUM PEAK FLOW			18500		21700	
MAXIMUM PEAK STAGE			15.66		16.08	
INSTANTANEOUS LOW FLOW					4.3	
10 PERCENT EXCEEDS	1750		3000		2220	
50 PERCENT EXCEEDS	452		525		321	
90 PERCENT EXCEEDS	115		114		75	

e Estimated.

03263000 Great Miami River at Taylorsville, Ohio

LOCATION.—Latitude 39°52'27", longitude 84°09'45", in SW ¼ sec. 36, R.8, T.2, Montgomery County, Hydrologic Unit 05080001, on right upstream face of Taylorsville Dam, 0.8 mi north of Taylorsville, Ohio, 2.1 mi east of Vandalia, Ohio, 9.5 mi upstream from Stillwater River, and at mile 90.9.

DRAINAGE AREA.—1,149 mi².

PERIOD OF RECORD.—January 1914 to September 1917 (published as Miami River at Tadmor), October 1921 to current year. 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, National Geodetic Vertical Datum of 1912 (levels by Miami Conservancy District). Prior to October 1921, nonrecording gage at site 1.7 mi upstream at different datum; Jan. 1, 1922-Nov. 11, 1925, nonrecording gage at site 50 ft downstream at outlet works of Taylorsville Dam at datum 60.03 ft lower; Oct. 1921-Sept. 1978 at site 650 ft downstream at datum 60.03 ft lower.

REMARKS.—Records good except for periods of estimated record, which are poor. Flood flow regulated by retarding basins on Great Miami River just downstream from station and on Loramie Creek 28 mi upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake, 64 mi upstream from station, and by Lake Loramie 47 mi upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913, reached a stage of 25.4 ft at site at Tadmor; discharge, 127,000 ft³/s computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	137	1290	11900	806	1060	1480	2180	450	2410	199	1780
2	152	147	2050	10200	741	1020	1710	1730	421	1640	186	1530
3	127	350	1640	9720	730	967	4280	1400	405	1040	172	1040
4	123	941	1230	16400	708	901	3150	1170	396	638	156	617
5	120	1220	946	17800	703	930	2210	1010	375	434	165	370
6	115	1180	764	26100	763	1450	1670	919	359	351	150	264
7	114	748	738	25300	1170	2030	1410	867	350	296	136	216
8	120	508	933	19000	6420	2050	1250	822	436	242	155	184
9	108	400	1130	13100	8000	1680	1080	790	492	201	147	203
10	107	304	1040	7770	6890	1340	942	733	397	207	141	179
11	128	250	1080	7010	4510	1140	828	676	352	193	148	208
12	152	276	1120	16200	3010	1030	775	779	459	186	91	195
13	111	249	1040	21600	2300	960	759	749	735	187	125	162
14	136	325	862	20500	2390	886	734	1420	811	186	179	146
15	123	282	736	17600	3360	806	712	1610	692	184	140	142
16	136	216	596	12200	2920	739	607	1370	507	196	162	1940
17	138	198	474	6040	3830	684	554	1080	427	212	178	1880
18	190	208	460	3890	2760	654	523	889	404	203	158	1300
19	231	395	452	2940	2000	665	515	962	341	224	153	758
20	198	904	e400	2300	1640	680	501	1780	309	248	140	642
21	179	1260	e340	1870	1760	678	589	1850	293	347	167	420
22	162	906	e300	1600	2050	698	936	1350	261	293	144	344
23	157	668	e260	1290	1770	842	3960	1090	234	208	133	288
24	222	574	e230	1140	1530	998	9510	945	221	197	133	836
25	181	2560	e210	1260	1350	1120	9070	883	220	198	125	4470
26	181	3480	e200	1210	1190	2690	6530	778	345	198	117	5400
27	182	2360	e200	1040	1060	2720	7090	671	e400	198	117	6250
28	177	1690	e200	895	1020	3090	5410	630	e260	207	114	4270
29	160	1430	e370	917	---	3970	3630	543	304	502	105	2550
30	151	1190	e700	894	---	2530	2770	543	705	356	199	2050
31	139	---	5100	842	---	1870	---	503	---	246	973	---
TOTAL	4712	25356	27091	280528	67381	42878	75185	32722	12361	12428	5408	40634
MEAN	152	845	874	9049	2406	1383	2506	1056	412	401	174	1354
MAX	231	3480	5100	26100	8000	3970	9510	2180	811	2410	973	6250
MIN	107	137	200	842	703	654	501	503	220	184	91	142
CFSM	0.13	0.74	0.76	7.88	2.09	1.20	2.18	0.92	0.36	0.35	0.15	1.18
IN.	0.15	0.82	0.88	9.08	2.18	1.39	2.43	1.06	0.40	0.40	0.18	1.32
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)												
MEAN	328	622	1044	1605	1576	1940	1835	1189	1002	683	386	297
MAX	3089	4228	4587	9049	4473	5158	5525	4603	5567	4951	2786	3608
(WY)	1927	1973	1991	2005	1950	1963	1922	1996	1958	2003	1995	1926
MIN	45.8	63.9	65.3	46.8	94.4	205	361	137	91.2	70.8	68.3	46.5
(WY)	1964	1935	1977	1977	1964	1941	1971	1941	1988	1936	1965	1963
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1922-2005
ANNUAL TOTAL				433932				626684				
ANNUAL MEAN				1186				1717				1039
HIGHEST ANNUAL MEAN												2005
LOWEST ANNUAL MEAN												1921
HIGHEST DAILY MEAN				17200		Jan 5		26100		Jan 6		30200
LOWEST DAILY MEAN				103		Sep 26		91		Aug 12		25
ANNUAL SEVEN-DAY MINIMUM				111		Sep 22		115		Oct 4		31
MAXIMUM PEAK FLOW								28200				31400
MAXIMUM PEAK STAGE								29.31				Jan 6
INSTANTANEOUS LOW FLOW												25
ANNUAL RUNOFF (CFSM)				1.03				1.49				0.90
ANNUAL RUNOFF (INCHES)				14.05				20.29				12.29
10 PERCENT EXCEEDS				2390				3710				2500
50 PERCENT EXCEEDS				652				703				406
90 PERCENT EXCEEDS				150				151				97

e Estimated.

03264000 Greenville Creek near Bradford, Ohio

LOCATION.—Latitude 40°06'08", longitude 84°25'48", in NW ¼ sec. 34, T.9N., R.4E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on State Highway 721, 0.8 mi downstream from small left bank tributary, 1.8 mi south of Bradford, Ohio, and 6 mi upstream from mouth.

DRAINAGE AREA.—193 mi².

PERIOD OF RECORD.—October 1930 to September 2000, October 2000 to September 2002, recording crest-stage gage; October 2002 to September 2003.

REVISED RECORDS.—WSP 803: 1933(M). WSP 1235: 1936, 1937(M). WSP 1908: Drainage area. WDR OH-82-1: 1980.

GAGE.—Water-stage recorder. Datum of gage 948.9 ft above sea level. Prior to Oct. 1, 1942, nonrecording gage at same site and datum. Apr. 6, 1962 to Nov. 13, 1963, water-stage recorder at site 200 ft downstream at same datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Some diurnal fluctuation caused by mill 8 mi upstream from station; daily flows are not affected appreciably. Sediment data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in March 1913 reached a stage of 12.1 ft; discharge, 18,200 ft³/s, at site with drainage area of 213 mi², computed by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	26	39	177	2120	e145	198	188	303	91	666	33	246	
2	27	82	181	949	e142	178	316	253	89	410	32	98	
3	28	182	183	1780	e136	170	476	219	91	215	32	62	
4	28	152	152	2980	e134	160	313	194	89	147	30	50	
5	27	120	128	e3900	e130	171	242	176	85	115	29	44	
6	27	89	113	5580	e125	225	199	165	80	98	28	41	
7	27	72	129	4420	346	236	218	156	75	80	30	37	
8	27	61	247	2630	1490	205	372	148	73	69	30	34	
9	27	53	204	1230	1220	171	252	139	92	62	29	35	
10	27	48	196	1130	815	154	197	137	100	58	28	42	
11	27	48	227	1300	488	151	171	136	112	54	30	39	
12	26	72	250	3390	356	147	160	179	88	51	46	34	
13	30	86	195	3470	320	134	157	171	239	52	46	31	
14	36	75	144	2680	493	124	142	231	283	55	51	30	
15	39	61	120	1650	690	119	126	430	170	53	42	29	
16	41	62	110	808	591	114	120	271	124	55	39	93	
17	34	58	99	577	759	114	118	200	102	54	37	138	
18	39	58	92	451	424	112	119	167	90	51	33	72	
19	46	66	e80	392	311	113	117	189	82	49	32	52	
20	43	133	e72	346	271	116	112	416	76	44	33	54	
21	38	131	e66	306	302	106	147	292	67	40	35	50	
22	35	96	e62	283	296	101	213	214	60	41	34	47	
23	35	84	e58	259	253	123	1410	183	57	43	31	44	
24	50	111	e56	e240	232	120	1950	158	56	42	30	238	
25	48	626	e54	e220	217	153	1100	138	56	39	28	247	
26	42	385	e51	e200	202	323	741	127	71	38	27	476	
27	40	235	e49	e190	186	277	1180	120	84	42	27	467	
28	44	201	e47	e180	187	344	669	115	238	43	26	223	
29	45	206	e46	e170	---	444	434	110	291	39	26	153	
30	45	162	149	e160	---	297	358	102	280	35	42	121	
31	42	---	1420	e150	---	232	---	97	---	33	439	---	
TOTAL	1096	3854	5157	44141	11261	5632	12317	5936	3491	2873	1435	3327	
MEAN	35.4	128	166	1424	402	182	411	191	116	92.7	46.3	111	
MAX	50	626	1420	5580	1490	444	1950	430	291	666	439	476	
MIN	26	39	46	150	125	101	112	97	56	33	26	29	
CFSM	0.18	0.67	0.86	7.38	2.08	0.94	2.13	0.99	0.60	0.48	0.24	0.57	
IN.	0.21	0.74	0.99	8.51	2.17	1.09	2.37	1.14	0.67	0.55	0.28	0.64	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-2005, BY WATER YEAR (WY)													
MEAN	56.6	112	174	267	273	324	315	218	192	116	71.4	57.1	
MAX	496	724	772	1430	844	826	783	935	1142	610	723	690	
(WY)	1987	1994	1991	1937	1950	1963	1964	1933	1958	2003	1979	2003	
MIN	10.7	14.9	13.5	14.9	15.9	48.2	58.7	27.7	21.6	13.9	8.93	9.47	
(WY)	1964	1935	1964	1945	1935	1941	1935	1941	1934	1934	1988	1999	
SUMMARY STATISTICS													
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR		WATER YEARS 1931-2005			
ANNUAL MEAN				71612				100520					
HIGHEST ANNUAL MEAN				196				275		181			
LOWEST ANNUAL MEAN										302			
HIGHEST DAILY MEAN				3490				Jan 5		5580			
LOWEST DAILY MEAN				26				Sep 25		26			
ANNUAL SEVEN-DAY MINIMUM				27				Sep 25		27			
MAXIMUM PEAK FLOW								5870		Jan 6a			
MAXIMUM PEAK STAGE								9.84		Jan 6			
INSTANTANEOUS LOW FLOW								25		Aug 29			
ANNUAL RUNOFF (CFSM)				1.01				1.43		0.94			
ANNUAL RUNOFF (INCHES)				13.80				19.37		12.74			
10 PERCENT EXCEEDS				315				471		397			
50 PERCENT EXCEEDS				115				120		76			
90 PERCENT EXCEEDS				34				33		22			

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03265000 Stillwater River at Pleasant Hill, Ohio

LOCATION.—Latitude 40°03'28", longitude 84°21'22", in SW ¼ sec. 18, T.7 N., R.5 E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on Laurer Road, 0.8 mi northwest of Pleasant Hill, Ohio, 2 mi downstream from Painter Creek, 2 mi upstream from Canyon Run, and at mile 28.35.

DRAINAGE AREA.—503 mi².

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, National Geodetic Vertical Datum of 1912. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Sediment and water-quality data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 17.5 ft. Discharge at site about 3 mi upstream, 51,400 ft³/s, computed by Miami Conservancy District. This stage is not comparable with present gage heights because of failure of levee in 1913. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005, DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	63	e390	6320	e265	406	430	591	168	1130	46	486
2	34	95	704	2670	e255	367	888	491	160	749	43	216
3	32	376	456	5210	e240	334	1750	423	160	384	41	129
4	34	324	346	9010	e245	322	783	374	159	270	40	92
5	36	260	286	10900	e240	344	559	337	149	209	38	73
6	35	191	247	16900	265	528	459	319	140	180	39	59
7	34	146	258	10200	722	533	419	304	130	154	38	51
8	34	120	594	5520	5170	447	728	288	127	136	39	45
9	32	101	463	2960	3930	362	532	270	142	119	38	53
10	32	86	458	2890	2380	320	416	260	132	110	36	100
11	32	83	497	4050	1170	315	368	255	248	101	38	68
12	33	102	518	11900	775	306	340	270	181	95	55	50
13	37	148	421	9840	677	276	330	280	301	94	70	43
14	48	140	317	7430	1400	245	296	303	523	99	88	40
15	59	108	254	3810	1850	232	261	631	302	100	76	38
16	63	e70	228	1790	1530	224	241	456	218	106	66	160
17	53	e50	213	1160	2090	224	232	343	177	102	65	314
18	59	e52	197	866	933	224	233	288	151	101	56	174
19	91	e60	189	757	641	223	229	302	136	91	49	107
20	71	e270	140	660	551	229	223	753	124	76	45	91
21	60	e160	e110	563	652	216	268	574	114	69	55	97
22	55	e130	e80	e490	666	202	388	410	103	69	49	84
23	64	e110	72	432	547	249	4550	356	95	71	45	73
24	75	e94	e70	e400	495	276	e4800	308	92	72	42	195
25	93	e900	e66	e370	453	360	e4000	264	85	63	39	696
26	100	e580	e63	e350	414	1290	e2500	241	93	59	37	1360
27	77	e400	e60	e320	383	770	3390	224	124	66	40	1210
28	69	e290	e58	315	389	1040	1550	212	e220	70	36	447
29	69	e260	e110	e295	---	1270	902	200	e370	69	36	289
30	81	e230	229	e285	---	707	714	189	552	57	77	228
31	76	---	5000	e275	---	543	---	179	---	48	582	---
TOTAL	1702	5999	13094	118938	29328	13384	32779	10695	5676	5119	2044	7068
MEAN	54.9	200	422	3837	1047	432	1093	345	189	165	65.9	236
MAX	100	900	5000	16900	5170	1290	4800	753	552	1130	582	1360
MIN	32	50	58	275	240	202	223	179	85	48	36	38
CFSM	0.11	0.40	0.84	7.63	2.08	0.86	2.17	0.69	0.38	0.33	0.13	0.47
IN.	0.13	0.44	0.97	8.80	2.17	0.99	2.42	0.79	0.42	0.38	0.15	0.52
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917-2005, BY WATER YEAR (WY)												
MEAN	148	293	449	654	710	902	835	489	470	281	148	132
MAX	1338	1909	2437	3961	2177	2433	2513	1700	3334	1629	1823	2127
(WY)	2002	1994	1991	1937	1950	1963	1922	1996	1958	2003	1979	1926
MIN	11.7	19.3	16.0	21.5	44.0	79.8	131	44.6	33.7	22.2	14.1	14.9
(WY)	1964	1964	1964	1977	1964	1941	1971	1941	1988	1977	1988	1954
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR			WATER YEARS 1917-2005	
ANNUAL TOTAL				155770				245826				
ANNUAL MEAN				426				673			457	
HIGHEST ANNUAL MEAN											775	
LOWEST ANNUAL MEAN											99.3	
HIGHEST DAILY MEAN				11500		Jan 5		16900		Jan 6		17400
LOWEST DAILY MEAN				23		Sep 26		32		Oct 3		4.0
ANNUAL SEVEN-DAY MINIMUM				25		Sep 23		33		Oct 6		8.1
MAXIMUM PEAK FLOW							18700			Jan 6a		26400
MAXIMUM PEAK STAGE							17.22			Jan 6		18.46
INSTANTANEOUS LOW FLOW							30			Oct 10		4.0
ANNUAL RUNOFF (CFSM)				0.85				1.34			0.91	
ANNUAL RUNOFF (INCHES)				11.52				18.18			12.36	
10 PERCENT EXCEEDS				713				1160			1020	
50 PERCENT EXCEEDS				195				229			149	
90 PERCENT EXCEEDS				38				47			33	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.
e Estimated.

03266000 Stillwater River at Englewood, Ohio

LOCATION.—Latitude 39°52'13", longitude 84°17'10", in NW ¼ sec. 23, T.5 N., R.5 E., Montgomery County, Hydrologic Unit 05080001, on right bank 1,000 ft upstream from Englewood Dam, 1 mi southeast of Englewood, Ohio, and at mile 8.5.

DRAINAGE AREA.—650 mi².

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 780.00 ft above sea level. Prior to Oct. 2003, site 2,000 ft downstream at datum 80.18 ft lower.

REMARKS.—Records fair except for periods of estimated record, which are poor. Flood flow regulated by Englewood retarding basin.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913, reached a discharge of 85,400 ft³/s at site 1 mi downstream, computed by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	84	426	4770	e340	501	671	1030	260	1250	68	630
2	53	88	868	5380	e330	451	836	831	249	1260	71	317
3	53	191	573	4910	e330	407	2300	682	243	590	67	165
4	54	394	421	6140	326	393	1410	564	233	369	69	115
5	55	259	349	7470	321	412	922	490	227	274	64	84
6	59	192	305	9100	340	559	691	452	203	225	66	67
7	54	120	288	10000	609	753	579	429	197	192	61	64
8	41	80	471	10000	3560	645	835	407	184	171	51	58
9	40	58	571	9760	4890	496	839	379	190	143	60	62
10	42	45	472	9310	4540	424	561	354	189	130	58	76
11	42	45	523	8840	2640	408	462	337	256	114	68	96
12	44	62	542	9090	1320	388	422	343	285	109	84	80
13	48	60	496	9620	1060	357	424	388	361	103	64	63
14	59	100	392	9790	1350	316	386	555	676	105	79	62
15	69	75	317	9630	2420	291	344	904	491	114	101	57
16	64	54	279	9150	1830	281	314	810	349	102	96	375
17	63	49	266	8420	2670	277	297	521	277	107	83	356
18	85	49	250	7410	1590	276	288	417	243	92	75	286
19	75	60	233	6100	1030	273	296	448	210	110	60	167
20	84	112	187	4500	820	279	286	1130	186	96	60	171
21	66	354	176	1280	881	268	314	1090	185	96	54	136
22	55	238	e160	873	993	250	441	675	158	107	46	124
23	55	158	e150	704	802	295	2520	530	140	88	52	102
24	79	141	e140	e600	670	341	4800	456	138	83	51	273
25	66	1260	e133	e540	592	373	5140	393	132	76	45	792
26	95	1470	e128	e480	522	1440	4050	355	236	71	45	1290
27	110	688	e120	e430	471	1320	3780	333	e170	79	49	1900
28	91	487	e120	e400	470	1520	3110	313	e750	82	50	810
29	76	478	e170	e380	---	2210	1570	290	e1290	78	53	463
30	75	413	235	e360	---	1350	1250	288	897	83	97	357
31	81	---	2110	e350	---	935	---	267	---	78	337	---
TOTAL	1986	7864	11871	165787	37717	18489	40138	16461	9605	6577	2284	9598
MEAN	64.1	262	383	5348	1347	596	1338	531	320	212	73.7	320
MAX	110	1470	2110	10000	4890	2210	5140	1130	1290	1260	337	1900
MIN	40	45	120	350	321	250	286	267	132	71	45	57
CFSM	0.10	0.40	0.59	8.23	2.07	0.92	2.06	0.82	0.49	0.33	0.11	0.49
IN.	0.11	0.45	0.68	9.49	2.16	1.06	2.30	0.94	0.55	0.38	0.13	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926-2005, BY WATER YEAR (WY)

MEAN	192	351	575	936	931	1131	1080	703	591	376	205	168
MAX	1815	2215	2495	5348	2840	3147	3015	2931	4244	2112	2438	1993
(WY)	2002	1973	1991	2005	1950	1963	1964	1933	1958	2003	1979	1926
MIN	15.6	27.3	27.9	28.6	63.0	111	180	61.1	52.2	30.0	19.7	17.9
(WY)	1964	1945	1945	1945	1964	1941	1941	1941	1934	1988	1988	1963

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1926-2005	
ANNUAL TOTAL	215207	328377		
ANNUAL MEAN	588	900	601	
HIGHEST ANNUAL MEAN			1027	1958
LOWEST ANNUAL MEAN			130	1941
HIGHEST DAILY MEAN	7580	10000	10000	2005
LOWEST DAILY MEAN	38	40	4.8	1944
ANNUAL SEVEN-DAY MINIMUM	44	44	9.7	1941
MAXIMUM PEAK FLOW		10100	10100	2005
MAXIMUM PEAK STAGE		51.70	51.70	2005
INSTANTANEOUS LOW FLOW			3.7	1944
ANNUAL RUNOFF (CFSM)	0.90	1.38	0.92	
ANNUAL RUNOFF (INCHES)	12.32	18.79	12.57	
10 PERCENT EXCEEDS	1410	1860	1450	
50 PERCENT EXCEEDS	317	295	206	
90 PERCENT EXCEEDS	63	60	44	

e Estimated.

03266560 Mad River at West Liberty, Ohio

LOCATION.—Latitude 40°15'08", longitude 83°44'59", Logan County, Hydrologic Unit 05080001, on left bank upstream from the State Route 245 bridge, on east side of West Liberty, Ohio, 0.4 mi east of intersection of State Route 245 and State Route 68.

DRAINAGE AREA.—36.6 mi².

PERIOD OF RECORD.—December 1993 to current year.

REVISED RECORDS.—WDR OH-04-1: 1995-2003 (P).

GAGE.—Water-stage recorder. Datum of gage is 1,078.00 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	26	48	178	63	75	e62	92	42	33	24	29
2	23	29	37	117	62	64	e196	87	43	31	24	24
3	23	32	32	430	63	71	178	81	43	30	23	22
4	24	39	29	320	67	64	109	77	42	31	22	21
5	23	34	27	616	64	69	92	74	41	30	21	20
6	23	30	27	602	68	113	81	71	40	30	21	19
7	23	27	29	207	114	170	78	70	39	30	20	19
8	22	26	31	204	303	112	74	67	39	31	19	18
9	22	25	30	189	174	81	70	65	38	29	19	17
10	22	25	31	198	129	71	66	63	42	29	20	17
11	22	25	33	371	94	69	63	61	48	27	21	16
12	22	26	32	1270	91	67	63	59	43	26	20	16
13	22	25	30	602	92	60	62	58	48	26	20	16
14	25	24	25	486	105	59	59	81	42	27	20	16
15	26	24	22	245	101	58	56	76	38	26	24	16
16	24	24	23	202	108	57	55	62	39	29	26	93
17	23	29	24	172	103	e58	54	57	37	28	22	39
18	26	36	25	147	80	56	54	54	36	27	21	25
19	27	31	24	147	74	60	53	60	37	27	21	21
20	24	29	20	139	89	66	53	81	36	26	21	20
21	24	26	22	125	128	59	87	60	33	25	21	18
22	23	25	26	122	101	56	74	55	32	25	20	18
23	24	24	24	109	83	96	320	54	36	24	19	72
24	26	33	e26	98	71	77	240	51	32	24	19	96
25	25	72	e24	100	66	97	193	49	32	27	19	66
26	23	38	e22	95	67	158	186	47	31	26	19	138
27	23	32	e21	79	64	99	201	46	30	27	19	68
28	23	34	e21	70	69	228	124	47	30	26	19	43
29	23	30	e22	74	---	e120	109	46	30	25	18	52
30	24	28	e27	72	---	e81	103	44	31	24	31	41
31	25	---	280	65	---	70	---	43	---	23	61	---
TOTAL	732	908	1094	7851	2693	2641	3215	1938	1130	849	694	1096
MEAN	23.6	30.3	35.3	253	96.2	85.2	107	62.5	37.7	27.4	22.4	36.5
MAX	27	72	280	1270	303	228	320	92	48	33	61	138
MIN	22	24	20	65	62	56	53	43	30	23	18	16
CFSM	0.65	0.83	0.96	6.92	2.63	2.33	2.93	1.71	1.03	0.75	0.61	1.00
IN.	0.74	0.92	1.11	7.98	2.74	2.68	3.27	1.97	1.15	0.86	0.71	1.11
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994-2005, BY WATER YEAR (WY)												
MEAN	25.9	28.8	39.2	62.5	48.6	54.8	71.4	70.9	60.4	39.5	28.6	29.2
MAX	45.3	62.6	81.2	253	96.2	86.6	133	140	138	102	58.3	79.2
(WY)	2004	2004	1997	2005	2005	1997	2002	1996	2004	2003	2003	2003
MIN	12.4	14.0	14.4	15.9	17.1	27.1	45.4	30.6	22.2	20.6	16.6	12.9
(WY)	2000	1995	2000	1995	1995	2000	1995	1999	1999	1994	1994	1999
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1994-2005		
ANNUAL TOTAL				22435			24841					
ANNUAL MEAN				61.3			68.1			47.5		
HIGHEST ANNUAL MEAN										69.4		
LOWEST ANNUAL MEAN										28.5		
HIGHEST DAILY MEAN				997 Jun 14			1270 Jan 12			1270 Jan 12		
LOWEST DAILY MEAN				20 Dec 20			16 Sep 11			7.2 Jan 9		
ANNUAL SEVEN-DAY MINIMUM				22 Oct 7			16 Sep 9			7.7 Jan 3		
MAXIMUM PEAK FLOW							1690 Jan 12			1690 Jan 12		
MAXIMUM PEAK STAGE							8.85 Jan 12			8.85 Jan 12		
INSTANTANEOUS LOW FLOW										5.0 Jan 10		
ANNUAL RUNOFF (CFSM)				1.67			1.86			1.30		
ANNUAL RUNOFF (INCHES)				22.80			25.25			17.62		
10 PERCENT EXCEEDS				96			124			82		
50 PERCENT EXCEEDS				50			38			32		
90 PERCENT EXCEEDS				24			21			16		

e Estimated.

03267000 Mad River near Urbana, Ohio

LOCATION.—Latitude 40°06'27", longitude 83°47'57", on west line of sec. 35, T.5.E., R.11.N., Champaign County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on U.S. Highway 36, 1.8 mi upstream from Dugan Run, 1.8 mi downstream from Muddy Creek, 2.5 mi west of Urbana, Ohio, and at mile 39.7.

DRAINAGE AREA.—162 mi².

PERIOD OF RECORD.—September 1925 to September 1931, August 1939 to September 1998, October 1998 to September 2002, recording crest-stage gage; October 2002 to current year.

REVISED RECORDS.—WSP 1305; 1930(M), WSP 1505: 1956. WSP 1625: 1929. WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 985.22 ft above sea level. Prior to May 18, 1930, nonrecording gage at same site and datum. May 18, 1930 to Sept. 30, 1931, nonrecording gage at site 600 ft downstream at datum 0.36 ft lower. Aug. 1 to Sept. 25, 1939, nonrecording gage at present site and datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Sediment data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	86	141	487	282	284	283	356	196	159	94	121
2	92	90	139	305	274	270	540	327	195	152	96	109
3	93	94	123	964	268	260	586	312	192	148	94	106
4	94	103	115	1020	262	255	375	297	189	142	92	105
5	93	108	109	1750	264	268	329	287	185	138	93	104
6	92	96	104	2930	265	324	307	278	181	136	95	104
7	89	92	108	870	319	431	298	274	176	134	95	104
8	89	89	112	813	701	333	284	262	173	134	95	104
9	86	88	109	677	544	282	272	256	171	131	95	107
10	84	87	111	624	456	268	263	252	170	129	94	106
11	83	88	112	869	383	266	255	244	183	124	97	104
12	85	90	111	2840	359	261	250	239	184	123	94	103
13	86	87	108	1300	346	250	247	235	193	122	92	106
14	87	86	100	1400	368	244	234	273	187	118	95	106
15	94	87	97	728	377	241	227	276	185	112	100	105
16	89	89	96	609	375	237	222	244	182	113	103	254
17	83	89	95	537	384	236	221	233	177	111	100	216
18	88	112	96	493	324	228	218	226	175	109	99	133
19	94	105	96	478	302	228	214	239	175	112	99	123
20	90	103	102	452	305	235	212	326	175	107	96	125
21	88	99	95	427	364	226	277	261	173	108	94	125
22	88	97	100	414	328	221	258	246	168	108	91	125
23	88	95	89	386	301	259	850	241	164	108	90	155
24	96	100	114	370	286	250	741	230	161	107	91	449
25	92	158	e100	363	276	269	609	223	e160	108	90	445
26	90	125	e90	352	273	415	519	217	e160	108	90	515
27	89	113	e86	321	265	305	665	213	e160	105	94	363
28	87	115	e82	307	269	e460	450	212	e155	104	93	272
29	83	111	e90	307	---	438	404	208	154	103	94	256
30	85	107	107	303	---	343	385	203	155	101	107	230
31	85	---	600	291	---	305	---	200	---	97	155	---
TOTAL	2756	2989	3737	23987	9520	8892	10995	7890	5254	3711	3007	5380
MEAN	88.9	99.6	121	774	340	287	366	255	175	120	97.0	179
MAX	96	158	600	2930	701	460	850	356	196	159	155	515
MIN	83	86	82	291	262	221	212	200	154	97	90	103
CFSM	0.55	0.62	0.74	4.78	2.10	1.77	2.26	1.57	1.08	0.74	0.60	1.11
IN.	0.63	0.69	0.86	5.51	2.19	2.04	2.52	1.81	1.21	0.85	0.69	1.24
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926-2005, BY WATER YEAR (WY)												
MEAN	86.5	103	133	187	204	226	224	194	168	138	105	91.1
MAX	355	315	473	774	523	567	486	620	507	454	302	319
(WY)	1987	1973	1991	2005	1950	1963	1948	1996	1947	1993	1995	2003
MIN	29.3	29.7	27.8	36.7	33.8	65.3	90.7	61.7	59.3	41.8	35.8	30.3
(WY)	1964	1964	1964	1964	1964	1992	1953	1941	1962	1954	1963	1963
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR			WATER YEARS 1926-2005	
ANNUAL TOTAL				77523				88118				
ANNUAL MEAN				212				241			155	
HIGHEST ANNUAL MEAN											248	
LOWEST ANNUAL MEAN											58.1	
HIGHEST DAILY MEAN				1560 Jan 6		2930 Jan 6		5740 Mar 5		1963		
LOWEST DAILY MEAN				82 Dec 28		82 Dec 28		24 Feb 2		1945		
ANNUAL SEVEN-DAY MINIMUM				86 Oct 8		86 Oct 8		25 Feb 1		1945		
MAXIMUM PEAK FLOW							4100 Jan 6a		8000 Jan 22		1959	
MAXIMUM PEAK STAGE							8.90 Jan 6		12.05 Jan 22		1959	
INSTANTANEOUS LOW FLOW										24 Feb 2		1945
ANNUAL RUNOFF (CFSM)				1.31				1.49			0.96	
ANNUAL RUNOFF (INCHES)				17.80				20.23			12.99	
10 PERCENT EXCEEDS				335				434			277	
50 PERCENT EXCEEDS				194				168			112	
90 PERCENT EXCEEDS				90				90			52	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03267900 Mad River at St. Paris Pike at Eagle City, Ohio

LOCATION.—Latitude 39°57'51", longitude 83°49'54", in W ½ sec. 1, R.10, T.4, Clark County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on St. Paris Pike, 0.8 mi southeast of Eagle City, Ohio, 1.1 mi downstream from Moore Run, 3.1 mi upstream from Buck Creek, 3.3 mi south of Tremont City, Ohio, and at mile 29.5.

DRAINAGE AREA.—310 mi².

PERIOD OF RECORD.—October 1965 to September 1996, October 1998 to current year.

GAGE.—Water-stage recorder. Datum of gage is 904.66 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor. Recharge to well field largely by induced infiltration from Mad River and Moore Run. Pumpage averaging 17.1 ft³/s in 2005, is returned as sewage 1.4 mi upstream from gaging station near Springfield (station 03269500). Satellite telemeter at station operated for U.S. Army Corps of Engineers. Water-quality data formerly collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913, reached a stage of 19.8 ft, from data furnished by Miami Conservancy District. Flood of Jan. 21, 1959, reached a stage of 15.7 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	151	253	1090	451	453	498	691	315	270	157	171
2	158	157	268	605	438	422	1090	627	313	236	157	149
3	156	168	229	2920	430	402	e1220	580	310	227	154	141
4	157	183	210	2630	416	399	e740	542	302	222	153	137
5	155	193	198	4950	417	423	635	511	299	220	156	136
6	153	177	193	6570	435	571	560	489	295	216	156	134
7	152	170	199	1940	655	718	531	473	289	211	153	133
8	152	163	208	1800	1610	554	495	452	292	208	148	132
9	150	161	202	1270	1180	447	462	437	288	204	147	138
10	149	160	209	1030	957	416	439	430	279	198	145	132
11	149	166	208	1990	706	408	420	424	292	197	148	128
12	149	176	201	6100	613	394	412	437	282	195	148	129
13	152	164	196	3050	580	369	406	407	298	196	145	128
14	151	159	187	3190	672	357	e380	567	282	199	151	127
15	167	162	180	1640	700	345	360	560	270	200	153	129
16	158	164	177	1340	702	339	350	470	264	200	158	545
17	153	161	176	1160	711	337	344	435	260	197	150	396
18	167	180	174	1030	564	326	341	412	257	190	145	204
19	172	188	174	961	505	328	331	486	253	192	144	175
20	159	188	166	887	500	336	326	805	250	186	145	e170
21	152	183	167	811	651	322	431	506	246	185	143	166
22	151	180	172	771	569	315	415	448	242	184	140	157
23	152	178	164	683	504	400	1960	428	238	178	139	178
24	169	188	e188	648	474	387	1770	402	237	176	137	501
25	157	249	e165	633	444	440	1440	382	252	173	136	616
26	153	229	e150	608	434	810	1220	369	248	181	135	795
27	157	205	e140	547	415	530	1520	357	236	177	143	545
28	152	210	e130	513	427	1450	995	354	235	175	136	370
29	153	204	e130	510	---	1050	822	341	234	171	138	352
30	154	199	168	498	---	697	785	335	256	165	176	322
31	150	---	1520	471	---	571	---	325	---	161	252	---
TOTAL	4820	5416	7102	52846	17160	15316	21698	14482	8114	6090	4688	7536
MEAN	155	181	229	1705	613	494	723	467	270	196	151	251
MAX	172	249	1520	6570	1610	1450	1960	805	315	270	252	795
MIN	149	151	130	471	415	315	326	325	234	161	135	127
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966-2005, BY WATER YEAR (WY)												
MEAN	185	239	329	377	405	435	460	407	336	297	218	184
MAX	765	689	1020	1705	946	778	837	781	788	863	712	633
(WY)	1987	1973	1991	2005	1975	1978	2002	1990	1980	1993	1995	2003
MIN	82.3	111	106	89.8	133	157	196	146	132	93.3	88.1	88.8
(WY)	1989	1995	1977	1977	1992	1983	1971	1988	1988	1988	1988	1988
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1966-2005		
ANNUAL TOTAL				142980			165268					
ANNUAL MEAN				391			453			322		
HIGHEST ANNUAL MEAN										468		
LOWEST ANNUAL MEAN										166		
HIGHEST DAILY MEAN				4280			6570			6570		
LOWEST DAILY MEAN				130			127			60		
ANNUAL SEVEN-DAY MINIMUM				150			130			62		
MAXIMUM PEAK FLOW							8690			9700		
MAXIMUM PEAK STAGE							16.95			16.95		
INSTANTANEOUS LOW FLOW							127			60		
10 PERCENT EXCEEDS				631			807			573		
50 PERCENT EXCEEDS				332			253			230		
90 PERCENT EXCEEDS				160			149			121		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03269500 Mad River near Springfield, Ohio

LOCATION.—Latitude 39°55'23", longitude 83°52'13", in NW ¼ sec. 16, R.9, T.4, Clark County, Hydrologic Unit 05080001, on right bank 150 ft downstream from Rock Run, 300 ft downstream from bridge on Lower Valley Pike, 2 mi downstream from Buck Creek, 3 mi west of Springfield, Ohio, and at mile 24.1.

DRAINAGE AREA.—490 mi².

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 National Geodetic Vertical Datum of 1912. Jan. 1, 1904-Mar. 31, 1906, nonrecording gage at site 0.3 mi downstream at different datum; Feb. 1, 1914-Feb. 29, 1924, nonrecording gage at site 1.8 mi upstream at datum 6.39 ft higher; Mar. 1, 1924-July 31, 1925, nonrecording gage at site 300 ft upstream at same datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Some regulation by C.J. Brown Reservoir, 8.3 mi upstream on Buck Creek, since 1972. Occasional low-flow regulation by powerplant 2.3 mi upstream; daily flows are not affected appreciably. Water-quality data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 30,500 ft³/s Jan. 21, 1959, gage height, 15.76 ft, from rating curve extended above 14,000 ft³/s on basis of slope-area and contracted opening measurements of peak flow; minimum daily discharge, 30 ft³/s Sept. 15, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 16.9 ft, present datum; discharge, 55,400 ft³/s computed by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	320	488	1790	714	704	885	1010	518	621	248	397
2	286	371	454	1190	698	670	1550	875	513	449	245	350
3	288	355	388	3800	693	662	1780	826	510	407	243	305
4	297	410	361	3810	711	660	1090	788	497	335	239	248
5	304	391	341	6460	748	698	914	729	492	339	240	244
6	302	360	345	10600	714	833	806	714	483	325	239	234
7	278	336	390	2980	927	955	754	671	458	317	231	224
8	248	325	392	2420	2100	821	692	648	499	314	226	222
9	248	310	387	2170	1640	709	642	631	491	308	223	236
10	246	288	404	2170	1370	678	607	621	464	300	218	218
11	245	333	392	3560	980	657	585	650	483	e290	219	211
12	247	355	368	8700	881	633	577	713	454	e290	217	213
13	257	343	338	3700	916	608	568	669	507	e300	209	212
14	250	344	314	4230	947	591	538	1050	455	317	214	210
15	309	381	303	2450	1050	562	520	1060	429	317	226	217
16	276	395	300	2080	1030	503	503	854	417	399	231	811
17	282	392	293	1880	955	498	496	762	408	411	221	708
18	394	406	285	1830	822	487	491	654	390	381	213	382
19	345	428	282	1850	763	497	488	885	371	367	212	364
20	326	418	264	1790	766	501	481	1810	365	299	210	403
21	316	393	274	1730	892	485	571	1100	358	296	213	324
22	311	360	281	1690	825	481	628	914	350	362	214	310
23	344	352	260	1620	761	685	2460	853	332	282	212	327
24	359	392	320	1580	733	618	2340	768	332	274	209	688
25	332	442	289	1430	705	686	1930	633	407	272	206	855
26	325	424	e240	1090	692	1070	1610	603	378	277	204	1080
27	331	402	e220	892	663	826	1920	581	423	288	219	822
28	323	422	e210	835	676	2210	1450	574	436	273	210	608
29	322	396	e210	775	---	1620	1260	554	391	262	208	595
30	322	394	402	763	---	1150	1100	544	587	256	412	541
31	306	---	2100	736	---	984	---	532	---	253	551	---
TOTAL	9307	11238	11895	82601	25372	23742	30236	24276	13198	10181	7382	12559
MEAN	300	375	384	2665	906	766	1008	783	440	328	238	419
MAX	394	442	2100	10600	2100	2210	2460	1810	587	621	551	1080
MIN	245	288	210	736	663	481	481	532	332	253	204	210
CFSM	0.61	0.76	0.78	5.44	1.85	1.56	2.06	1.60	0.90	0.67	0.49	0.85
IN.	0.71	0.85	0.90	6.27	1.93	1.80	2.30	1.84	1.00	0.77	0.56	0.95
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974-2005, BY WATER YEAR (WY)												
MEAN	364	430	543	662	674	701	725	706	601	489	357	347
MAX	1081	904	1583	2665	1409	1279	1174	2106	1371	1284	947	1279
(WY)	1987	1986	1991	2005	1975	1978	1996	1996	1980	1993	1979	1979
MIN	176	190	188	189	235	251	312	240	174	189	162	177
(WY)	1989	2000	1977	1977	1992	1983	1976	1988	1988	1988	1988	1977
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR			WATER YEARS 1974-2005	
ANNUAL TOTAL				238128				261987				
ANNUAL MEAN				651				718			549	
HIGHEST ANNUAL MEAN											792	
LOWEST ANNUAL MEAN											279	
HIGHEST DAILY MEAN				8000		Jan 5		10600		Jan 6		2005
LOWEST DAILY MEAN				210		Dec 28		204		Jan 26		1977
ANNUAL SEVEN-DAY MINIMUM				249		Oct 8		210		Jan 24		1977
MAXIMUM PEAK FLOW							12400			Jan 6		2005
MAXIMUM PEAK STAGE							12.26			Jan 6		2005
INSTANTANEOUS LOW FLOW										100		Jan 26
ANNUAL RUNOFF (CFSM)				1.33				1.46			1.12	
ANNUAL RUNOFF (INCHES)				18.08				19.89			15.23	
10 PERCENT EXCEEDS				1180				1490			1000	
50 PERCENT EXCEEDS				496				436			397	
90 PERCENT EXCEEDS				282				238			220	

e Estimated.

03270000 Mad River near Dayton, Ohio

LOCATION.—Latitude 39°47'50", longitude 84°05'19", in SW ¼ sec. 7, R. 8, T.2, Greene County, Hydrologic Unit 05080001, on left bank in retarding basin 300 ft upstream from Huffman Dam, 2.3 mi downstream from Mud Run, 6.2 mi northeast of Dayton, Ohio, and at mile 6.1.

DRAINAGE AREA.—635 mi².

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). WSP 1908: Drainage area. WDR-OH-82-1: 1980.

GAGE.—Water-stage recorder. Datum of gage is 777.06 ft, National Geodetic Vertical Datum of 1912. Jan. 21, 1959-Dec. 14, 1967, at site 900 ft downstream at datum 77.01 ft lower. See WSP 1725 for history of changes prior to Jan. 21, 1959. Water-quality data collected at this site 1947-1948, 1962-1963, 1966-1980.

REMARKS.—Records good except for periods of estimated record, which are poor.. Flood flows affected by backwater from Huffman retarding dam beginning in 1921, some regulation by C. J. Brown Reservoir 26 mi upstream on Buck Creek since 1974. Water-quality data was formerly collected on left bank 900 ft downstream.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 21,200 ft³/s Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft Feb. 26, 1929, at site and datum then in use; minimum daily discharge, 94 ft³/s Aug. 6, 1934, but may have been less during 1921-1924.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 14.0 ft, original site and datum; discharge 75,700 ft³/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	331	344	540	3040	955	928	1180	1420	668	e800	318	516			
2	328	370	537	1660	923	870	1750	1200	656	679	308	434			
3	326	402	484	3770	915	854	2810	1110	651	574	301	405			
4	335	468	441	6470	918	842	1610	1050	634	486	293	333			
5	349	434	417	6030	960	880	1280	968	623	464	295	313			
6	366	402	408	10700	973	1050	1120	941	616	445	301	305			
7	347	370	443	8750	1180	1190	1040	875	595	428	291	279			
8	339	357	481	3910	2750	1090	957	845	579	417	276	275			
9	317	345	462	3280	2370	928	879	811	654	406	269	293			
10	304	311	483	3080	2030	869	826	790	583	398	263	284			
11	297	330	e470	3590	1440	847	797	765	594	390	292	262			
12	297	435	451	9150	1240	810	777	980	573	385	306	256			
13	311	385	423	e6000	1230	772	771	871	735	388	259	256			
14	336	370	394	e5100	1280	737	721	1270	588	404	256	250			
15	344	395	373	e4000	1450	714	690	1570	542	396	268	250			
16	370	411	362	e3000	1390	632	658	1180	517	e455	277	805			
17	394	407	358	e2600	e1340	612	650	1030	502	e510	272	998			
18	412	434	342	e2400	1130	601	647	898	487	e500	254	494			
19	445	451	340	2410	1030	604	636	937	462	e480	251	444			
20	389	465	317	2320	1010	630	633	2800	451	e295	248	533			
21	366	444	323	2230	1140	595	704	1660	433	549	255	423			
22	355	405	334	2160	1120	585	870	1300	433	543	248	396			
23	362	392	325	2040	1010	874	2490	1170	417	414	247	379			
24	436	411	341	1980	972	851	3710	1080	405	381	243	602			
25	387	465	407	1920	931	844	2840	899	410	367	241	1110			
26	370	463	e350	1530	904	1370	2150	810	517	361	264	e1400			
27	369	429	e300	1230	866	1130	2820	776	479	367	250	e1000			
28	365	455	e260	1140	862	2710	1970	759	e496	361	258	782			
29	359	433	e250	1050	---	2770	1790	731	e540	340	245	696			
30	358	e425	477	1030	---	1680	1460	714	e770	330	453	670			
31	343	---	2300	993	---	1370	---	696	---	324	848	---			
TOTAL	11007	12208	14193	108563	34319	31239	41236	32906	16610	13637	9150	15443			
MEAN	355	407	458	3502	1226	1008	1375	1061	554	440	295	515			
MAX	445	468	2300	10700	2750	2770	3710	2800	770	800	848	1400			
MIN	297	311	250	993	862	585	633	696	405	295	241	250			
CFSM	0.56	0.64	0.72	5.52	1.93	1.59	2.16	1.67	0.87	0.69	0.46	0.81			
IN.	0.64	0.72	0.83	6.36	2.01	1.83	2.42	1.93	0.97	0.80	0.54	0.90			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974-2005, BY WATER YEAR (WY)															
MEAN	440	536	709	867	893	940	972	939	774	614	444	423			
MAX	1425	1175	2027	3502	1839	1637	1609	2885	1745	1525	1235	1528			
(WY)	1987	1986	1991	2005	1975	1978	2002	1996	1981	1993	1979	1979			
MIN	198	188	208	239	287	344	444	268	192	211	172	178			
(WY)	2000	2000	2000	1977	1992	1983	1976	1988	1988	1988	1988	1999			
SUMMARY STATISTICS															
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1974-2005			
ANNUAL TOTAL				307991				340511							
ANNUAL MEAN				842				933				712			
HIGHEST ANNUAL MEAN												1029			
LOWEST ANNUAL MEAN												336			
HIGHEST DAILY MEAN				10200				10700				10700			
LOWEST DAILY MEAN				250				241				112			
ANNUAL SEVEN-DAY MINIMUM				314				248				124			
MAXIMUM PEAK FLOW								11600				11600			
MAXIMUM PEAK STAGE								19.22				19.22			
INSTANTANEOUS LOW FLOW												112			
ANNUAL RUNOFF (CFSM)				1.33				1.47				1.12			
ANNUAL RUNOFF (INCHES)				18.04				19.95				15.23			
10 PERCENT EXCEEDS				1680				1970				1330			
50 PERCENT EXCEEDS				655				542				506			
90 PERCENT EXCEEDS				336				296				255			

e Estimated.

03270500 Great Miami River at Dayton, Ohio

LOCATION.—Latitude 39°45'55", longitude 84°11'51", in sec. 10, R.7, T.1, Montgomery County, Hydrologic Unit 05080002, on left bank 1,000 ft downstream from Main Street bridge in Dayton, Ohio, 0.7 mi upstream from Wolf Creek, 0.8 mi downstream from Mad River, and at mile 80.

DRAINAGE AREA.—2,511 mi².

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 ft, National Geodetic Vertical Datum of 1912 (as requested by cooperator, 699.71 ft adjustment of 1929). Prior to Oct. 1, 1921, nonrecording gage at Main Street bridge at datum 23.73 ft higher; Oct. 1, 1921-July 24, 1931, nonrecording gage at Main Street bridge at datum 21.00 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi upstream, on Stillwater River 10.5 mi upstream, on Great Miami River 11.5 mi upstream, and on Loramie Creek 40 mi upstream. Also see REMARKS for stations 03261500, 03261950, and 03269500. Much of the flow is diverted to the Little Miami River Basin through the Dayton sewer systems. Sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 60,900 ft³/s Jan. 22, 1959, gage height, 36 ft Jan. 22, 1959; minimum discharge 109 ft³/s Aug. 8, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 26, 1913, reached a stage of 29.0 ft, site and datum then in use; discharge, 250,000 ft³/s, computed by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	499	2290	17800	2340	2480	3750	4730	1290	4830	532	2820
2	477	531	3560	16100	2200	2390	4570	3830	1230	3760	498	2260
3	450	648	2970	17000	2150	2320	10100	3210	1200	2350	460	1550
4	437	1580	2240	25000	2130	2310	7230	2780	1160	1570	428	1000
5	435	1510	1790	30300	2150	2390	5090	2460	1140	1210	469	713
6	436	1520	1510	42000	2250	3160	3940	2270	1100	1060	503	588
7	429	1110	1510	41600	3000	e4300	3400	2110	1040	945	443	514
8	393	855	1790	30700	12200	4300	3250	2030	1040	859	424	465
9	380	781	2290	24400	15500	3510	3100	1930	1220	747	414	461
10	367	732	2060	18900	14100	2910	2610	1840	1080	712	405	438
11	367	750	2120	18700	10000	2580	2280	1750	1040	664	402	452
12	419	897	2140	29900	6570	2360	2130	1990	1190	653	471	460
13	396	738	2040	35800	5300	2210	2100	1860	1950	643	336	412
14	412	831	1690	33500	5440	2040	1980	3140	1860	649	406	375
15	465	831	1440	28800	8170	1900	1890	3910	1680	651	404	360
16	447	741	1240	23400	6960	1740	1700	3360	1310	854	422	2950
17	447	698	1080	17200	8710	1640	1610	2600	1130	981	439	2930
18	449	728	1030	14300	6540	1590	1530	2160	1040	787	409	2060
19	449	857	981	12700	4690	1600	1510	2370	939	804	393	1290
20	519	1340	811	10600	3950	1670	1470	5430	861	711	363	1320
21	563	2000	802	6560	4130	1580	1600	4590	832	1000	372	930
22	532	1630	902	5340	4690	1560	2460	3340	770	1050	333	775
23	562	1300	620	4610	4100	2200	8650	2710	717	734	313	670
24	677	1200	e580	4180	3620	2300	17700	2360	694	634	311	1250
25	593	3600	e560	4370	3250	2530	16400	2090	769	610	304	5270
26	567	5810	e540	3810	2960	5530	12800	1870	944	631	336	6860
27	589	3850	e535	3160	2790	5990	12800	1690	900	595	366	8700
28	584	2840	e530	2710	2630	8040	10600	1580	1200	577	359	5780
29	550	2430	e530	2670	---	10200	7110	1460	1680	768	348	3740
30	533	2140	1280	2650	---	6470	5600	1450	2350	721	876	3020
31	510	---	7750	2480	---	4740	---	1370	---	607	1930	---
TOTAL	14931	44977	51211	531240	152520	100540	160960	80270	35356	33367	14469	60413
MEAN	482	1499	1652	17140	5447	3243	5365	2589	1179	1076	467	2014
MAX	677	5810	7750	42000	15500	10200	17700	5430	2350	4830	1930	8700
MIN	367	499	530	2480	2130	1560	1470	1370	694	577	304	360
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974-2005, BY WATER YEAR (WY)												
MEAN	1087	1739	2708	3457	3612	4087	4004	3167	2688	2133	1167	973
MAX	5792	6233	9210	17140	8926	10140	8184	11030	7357	8483	5727	5692
(WY)	1987	1994	1991	2005	1975	1978	2002	1996	1981	2003	1979	2003
MIN	232	236	296	270	636	890	1069	583	259	299	196	175
(WY)	2000	2000	1977	1977	1992	1992	1976	1988	1988	1977	1988	1999
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1974-2005		
ANNUAL TOTAL				938255			1280254					
ANNUAL MEAN				2564			3508			2563		
HIGHEST ANNUAL MEAN										3765		
LOWEST ANNUAL MEAN										881		
HIGHEST DAILY MEAN				32000			42000			42000		
LOWEST DAILY MEAN				367			304			111		
ANNUAL SEVEN-DAY MINIMUM				391			332			125		
MAXIMUM PEAK FLOW							45800			45800		
MAXIMUM PEAK STAGE							34.33			34.33		
INSTANTANEOUS LOW FLOW										111		
10 PERCENT EXCEEDS				5200			7870			5910		
50 PERCENT EXCEEDS				1600			1590			1330		
90 PERCENT EXCEEDS				514			439			386		

e Estimated.

03271000 Wolf Creek at Dayton, Ohio

LOCATION.—Latitude 39°46'00", longitude 84°14'10", Montgomery County, Hydrologic Unit 05080002, on right bank at West Riverview Avenue bridge in Dayton, Ohio, and 1.8 mi upstream from mouth.

DRAINAGE AREA.—68.7 mi².

PERIOD OF RECORD.—September 1938 to September 1950, October 1953 to September 1973 (low-flow partial-records site), October 1986 to September 1996, October 1997 to September 2002 (recording crest-stage gage), October 2002 to current year.

REVISED RECORDS.—WDR OH-90-1: 1989 (p).

GAGE.—Water-stage recorder. Datum of gage is 739.83 ft above sea level. Prior to 1950, recording gage at same location at datum 39.83 ft lower.

REMARKS.—Records fair except for periods of estimated record, which are poor.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum discharge during flood in January 1959, about 12,800 ft³/s at gage height 13.1 ft, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	16	122	355	43	63	67	79	29	110	8.9	28
2	8.9	29	63	224	42	50	180	66	26	35	8.9	16
3	8.7	27	44	1620	43	46	134	57	25	23	8.5	11
4	8.8	79	34	659	43	45	85	51	24	19	7.9	10
5	8.8	42	29	2920	51	50	e73	47	23	16	8.2	10
6	8.5	25	29	1710	76	49	60	45	21	15	8.9	11
7	8.4	19	74	337	191	49	67	43	19	14	9.2	9.3
8	8.5	17	69	453	463	46	55	41	18	13	8.5	9.2
9	8.5	16	52	217	203	40	49	37	18	15	8.8	27
10	8.2	15	60	154	139	38	45	36	17	12	9.4	13
11	8.1	44	71	1190	97	39	43	38	16	12	8.5	10
12	8.7	82	55	964	80	39	46	46	22	13	12	10
13	12	36	43	713	76	37	52	35	130	12	8.3	9.0
14	15	26	33	505	129	34	39	166	42	13	8.4	8.6
15	21	e24	28	183	107	33	35	104	29	14	9.9	8.5
16	11	e22	26	136	134	31	33	60	26	70	12	335
17	8.6	e21	25	106	97	31	31	48	22	35	9.5	52
18	97	23	23	87	74	30	32	42	18	17	8.7	26
19	44	48	e19	84	63	40	30	220	15	16	9.4	21
20	21	76	16	77	69	40	29	246	15	12	10	70
21	16	44	e15	70	83	32	34	90	14	11	9.8	31
22	13	32	e14	69	67	31	105	65	12	33	8.9	21
23	28	30	13	57	59	97	621	55	11	15	7.9	17
24	33	47	23	56	58	59	249	46	12	11	7.6	17
25	18	81	20	58	54	93	146	40	16	11	7.6	17
26	15	44	e18	60	52	131	257	36	14	10	7.8	86
27	14	39	e17	50	49	80	217	34	12	14	7.8	43
28	15	56	e16	44	56	564	110	32	15	12	7.4	25
29	14	38	30	48	---	199	85	31	24	10	8.1	27
30	14	41	131	50	---	113	103	47	55	9.5	128	19
31	16	---	1060	46	---	85	---	42	---	9.0	101	---
TOTAL	529.0	1139	2272	13302	2698	2314	3112	2025	740	631.5	485.8	997.6
MEAN	17.1	38.0	73.3	429	96.4	74.6	104	65.3	24.7	20.4	15.7	33.3
MAX	97	82	1060	2920	463	564	621	246	130	110	128	335
MIN	8.1	15	13	44	42	30	29	31	11	9.0	7.4	8.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-2005, BY WATER YEAR (WY)

MEAN	18.7	37.4	66.8	108	96.6	103	119	98.9	77.1	42.0	24.7	18.9
MAX	116	115	367	429	251	280	313	345	299	182	155	98.1
(WY)	1987	1994	1991	2005	1990	1945	1996	1996	1945	2003	1995	1950
MIN	2.42	2.23	1.98	3.03	14.7	12.6	15.3	5.95	8.18	3.35	3.56	2.04
(WY)	1945	1945	1945	1945	1944	1941	1941	1941	1988	1944	1948	1944

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1939-2005
ANNUAL TOTAL	32537.9	30245.9	
ANNUAL MEAN	88.9	82.9	68.5
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			16.1
HIGHEST DAILY MEAN	3290 Jan 4	2920 Jan 5	3530 Apr 29
LOWEST DAILY MEAN	5.6 Aug 13	7.4 Aug 28	1.1 Sep 18
ANNUAL SEVEN-DAY MINIMUM	5.8 Aug 13	7.7 Aug 23	1.4 Aug 31
MAXIMUM PEAK FLOW		4180 Jan 5a	9950 Mar 19
MAXIMUM PEAK STAGE		7.86 Jan 5	53.50 Mar 19
INSTANTANEOUS LOW FLOW			0.80 Sep 18
10 PERCENT EXCEEDS	141	131	133
50 PERCENT EXCEEDS	35	33	24
90 PERCENT EXCEEDS	9.9	9.1	5.4

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

e Estimated.

03271510 Great Miami River near Linden Avenue at Miamisburg, Ohio

LOCATION.—Latitude 39°38'14", longitude 84°17'33", Montgomery County, Hydrologic Unit 05080002, on left bank at Miamisburg, 1 mi downstream from Bear Creek, 0.6 mi downstream from discharge station at Miamisburg, 0.65 mi downstream from discharge station below Miamisburg, and at mile 65.75.

DRAINAGE AREA.—2,713 mi².

Water-Quality Records

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 TEMPERATURE: June 1978 to current year.

DISSOLVED OXYGEN: June 1978 to current year.

INSTRUMENTATION.—Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunction of the equipment. Prior to June 1978, records published as 03271600, Great Miami River near Miamisburg, Ohio. See records of discharge for gaging station below Miamisburg (station 03271601). Specific conductance records are good except Dec. 30-Jan. 26, May 12-June 2, June 15-27, and Aug. 12-29, which are fair. pH records are good except Dec. 30-Jan. 18 and Aug. 12-Sept. 16, which are fair. Temperature records are good. Dissolved oxygen records are fair except for Dec. 17-Jan. 9, Jan. 26-Feb. 4, Feb. 28-Mar. 15, Apr. 1-15, Apr. 29-May 9, June 1-July 31, Aug. 12-25, and Sept. 16-30, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 2,080 microsiemens, Jan. 13, 1999; minimum, 206 microsiemens, Feb. 18, 1982.

pH: Maximum, 9.8 units, Oct. 12, 1992; minimum, 7 units, July 30, Aug. 30, 1979.

WATER TEMPERATURE: Maximum, 33°C, July 20, 22, 1978; minimum, 0.0°C, on many days during winters.

DISSOLVED OXYGEN: Maximum, >20 mg/L, on several days in water years 1978-1994, 2000, 2001, and 2005; minimum, 0.4 mg/L, Aug. 27, 1981 and Aug. 2, 1982.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 1,320 microsiemens, Dec. 30; minimum, 273 microsiemens, Jan. 7.

pH: Maximum, 9.1 units, Oct. 4; minimum, 7.6 units, Sept. 19.

WATER TEMPERATURE: Maximum, 30.9°C, July 25; minimum, 0.4°C, Dec. 23-25 and 27.

DISSOLVED OXYGEN: Maximum, 20.0 mg/L, July 10; minimum, 2.9 mg/L, Aug. 6.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	941	906	922	922	890	905	696	672	683	586	385	437
2	934	905	916	923	830	895	694	670	680	440	389	415
3	921	881	899	889	851	870	690	673	678	503	415	439
4	908	851	882	851	653	761	675	654	661	429	335	362
5	898	880	887	772	680	738	701	675	691	349	308	332
6	913	886	899	799	755	774	735	701	723	308	278	287
7	923	873	901	805	742	780	744	723	737	301	273	284
8	937	892	915	768	740	758	747	718	734	323	301	314
9	944	908	931	798	766	787	751	724	743	351	323	336
10	964	922	940	807	781	793	754	732	744	377	351	367
11	964	941	955	826	787	808	740	719	727	402	369	386
12	963	930	952	793	715	755	723	715	719	369	308	327
13	964	921	935	791	718	759	751	723	734	343	308	325
14	967	940	953	800	783	792	753	745	749	344	316	329
15	960	910	930	811	791	801	760	751	756	338	318	329
16	938	896	910	832	811	820	781	760	772	385	338	357
17	941	890	904	843	824	831	796	779	785	417	385	402
18	942	495	805	851	824	839	808	784	798	434	417	424
19	667	572	597	850	813	826	815	794	806	515	434	468
20	755	619	682	824	766	796	845	803	822	694	515	594
21	765	726	739	774	754	763	872	832	854	713	657	678
22	836	765	793	779	737	756	884	860	869	743	703	721
23	865	808	849	759	744	753	926	868	896	752	715	727
24	841	793	826	770	753	762	946	914	929	737	723	728
25	829	764	793	760	674	736	936	913	921	742	715	729
26	859	829	846	674	539	599	913	881	892	792	742	777
27	886	851	864	553	532	540	900	872	881	792	785	788
28	889	878	884	610	553	576	905	875	886	796	783	788
29	906	878	890	649	610	630	1080	879	940	807	787	793
30	909	899	905	684	649	668	1320	1040	1150	849	807	839
31	923	892	905	---	---	---	1130	586	905	850	830	838
MONTH	967	495	871	923	532	762	1320	586	802	850	273	514

03271510 Great Miami River near Linden Avenue at Miamisburg, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.8	8.4	8.6	8.2	8.1	8.2	8.3	8.2	8.2	8.1	8.0	8.1
2	8.7	8.4	8.6	8.2	8.1	8.1	8.3	8.2	8.3	8.1	8.0	8.1
3	8.8	8.5	8.6	8.1	8.0	8.1	8.3	8.2	8.3	8.1	8.1	8.1
4	9.1	8.7	8.8	8.2	8.0	8.1	8.3	8.2	8.2	8.2	8.1	8.1
5	9.0	8.7	8.9	8.2	8.1	8.1	8.3	8.2	8.2	8.1	8.1	8.1
6	9.0	8.7	8.8	8.3	8.1	8.2	8.3	8.2	8.3	8.1	8.0	8.1
7	8.9	8.7	8.8	8.2	8.1	8.2	8.3	8.2	8.2	8.2	8.0	8.1
8	8.9	8.6	8.8	8.3	8.1	8.2	8.3	8.2	8.2	8.1	7.9	8.0
9	8.7	8.5	8.6	8.3	8.1	8.2	8.3	8.2	8.3	8.0	7.9	8.0
10	8.7	8.4	8.6	8.4	8.2	8.2	8.3	8.2	8.2	8.0	7.8	7.9
11	8.7	8.4	8.6	8.3	8.2	8.2	8.2	8.2	8.2	8.0	7.9	7.9
12	8.7	8.4	8.6	8.3	8.2	8.2	8.3	8.2	8.3	7.9	7.9	7.9
13	8.6	8.4	8.5	8.4	8.1	8.2	8.4	8.3	8.3	7.9	7.9	7.9
14	8.5	8.3	8.4	8.5	8.2	8.3	8.4	8.3	8.3	8.0	7.9	8.0
15	8.3	8.1	8.2	8.5	8.2	8.4	8.4	8.3	8.3	8.0	8.0	8.0
16	8.3	8.2	8.2	8.6	8.3	8.4	8.4	8.3	8.3	8.0	8.0	8.0
17	8.4	8.1	8.2	8.4	8.3	8.4	8.4	8.3	8.4	8.2	8.0	8.2
18	8.3	8.2	8.2	8.5	8.2	8.3	8.4	8.3	8.3	---	---	---
19	8.3	8.0	8.0	8.3	8.2	8.2	8.5	8.3	8.4	---	---	---
20	8.1	8.0	8.0	8.3	8.1	8.2	8.4	8.3	8.4	---	---	---
21	8.1	8.0	8.0	8.3	8.2	8.2	8.4	8.3	8.4	---	---	---
22	8.2	8.0	8.1	8.2	8.2	8.2	8.4	8.3	8.4	---	---	---
23	8.2	8.1	8.1	8.3	8.2	8.2	8.4	8.3	8.3	---	---	---
24	8.2	8.1	8.1	8.2	8.1	8.2	8.4	8.2	8.3	---	---	---
25	8.2	8.0	8.1	8.2	8.1	8.2	8.4	8.3	8.3	---	---	---
26	8.2	7.9	8.2	8.2	8.1	8.1	8.4	8.3	8.3	---	---	---
27	8.2	8.1	8.1	8.1	8.1	8.1	8.4	8.2	8.3	8.0	8.0	8.0
28	8.3	8.1	8.1	8.2	8.1	8.2	8.4	8.3	8.3	8.0	8.0	8.0
29	8.2	8.0	8.1	8.2	8.2	8.2	8.4	8.2	8.3	8.0	8.0	8.0
30	8.3	8.1	8.1	8.3	8.2	8.2	8.3	8.2	8.2	8.0	8.0	8.0
31	8.3	8.1	8.2	---	---	---	8.2	8.1	8.1	8.1	8.0	8.0
MAX	9.1	8.7	8.9	8.6	8.3	8.4	8.5	8.3	8.4	8.2	8.1	8.2
MIN	8.1	7.9	8.0	8.1	8.0	8.1	8.2	8.1	8.1	7.9	7.8	7.9

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.0	8.0	8.0	8.2	8.2	8.2	8.3	8.2	8.2	8.2	8.1	8.2
2	8.0	8.0	8.0	8.3	8.2	8.2	8.3	8.3	8.3	8.3	8.2	8.2
3	8.0	8.0	8.0	8.3	8.2	8.2	8.3	8.1	8.2	8.3	8.2	8.3
4	8.2	8.0	8.0	8.3	8.2	8.2	8.1	8.1	8.1	8.4	8.3	8.3
5	8.2	8.2	8.2	8.3	8.2	8.2	8.2	8.1	8.1	8.4	8.3	8.3
6	8.2	8.2	8.2	8.3	8.2	8.3	8.2	8.1	8.2	8.5	8.3	8.4
7	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.2	8.2	8.6	8.4	8.4
8	8.2	8.1	8.2	8.3	8.2	8.2	8.5	8.2	8.3	8.6	8.4	8.5
9	8.1	8.0	8.0	8.3	8.2	8.2	8.5	8.4	8.4	8.7	8.4	8.5
10	8.1	8.0	8.1	8.3	8.2	8.3	8.5	8.3	8.4	8.6	8.2	8.4
11	8.1	8.1	8.1	8.3	8.2	8.3	8.6	8.3	8.4	8.6	8.2	8.4
12	8.2	8.1	8.1	8.4	8.2	8.3	8.4	8.3	8.4	8.5	8.0	8.2
13	8.2	8.1	8.2	8.4	8.3	8.3	8.6	8.3	8.3	8.5	8.2	8.3
14	8.2	8.2	8.2	8.5	8.3	8.4	8.7	8.4	8.5	8.3	8.1	8.2
15	8.2	8.2	8.2	8.5	8.3	8.3	8.7	8.4	8.5	8.1	7.9	8.0
16	8.2	8.1	8.2	8.6	8.3	8.4	8.8	8.4	8.6	8.2	8.0	8.1
17	8.2	8.2	8.2	8.6	8.3	8.4	8.8	8.4	8.6	8.4	8.2	8.2
18	8.2	8.2	8.2	8.7	8.3	8.4	8.7	8.3	8.5	8.3	8.2	8.2
19	8.2	8.1	8.2	8.5	8.3	8.4	8.7	8.3	8.5	8.3	8.1	8.2
20	8.2	8.2	8.2	8.4	8.3	8.3	8.6	8.3	8.5	8.1	7.7	7.8
21	8.2	8.2	8.2	8.7	8.3	8.5	8.4	8.3	8.3	8.0	7.8	7.9
22	8.3	8.2	8.2	8.7	8.4	8.5	8.4	8.2	8.3	8.0	7.9	8.0
23	8.3	8.2	8.2	8.5	8.3	8.4	8.2	8.0	8.1	8.1	7.9	8.0
24	8.3	8.2	8.2	8.6	8.3	8.4	8.0	7.9	7.9	8.2	8.0	8.1
25	8.3	8.2	8.2	8.6	8.4	8.5	8.0	7.9	8.0	8.3	8.1	8.2
26	8.3	8.2	8.2	8.5	8.3	8.4	8.0	8.0	8.0	8.4	8.2	8.3
27	8.3	8.2	8.3	8.3	8.1	8.2	8.1	8.0	8.1	8.4	8.2	8.3
28	8.3	8.2	8.3	8.2	8.1	8.1	8.1	8.0	8.0	8.5	8.3	8.4
29	---	---	---	8.1	8.1	8.1	8.1	8.1	8.1	8.6	8.3	8.4
30	---	---	---	8.1	8.1	8.1	8.2	8.1	8.1	8.5	8.3	8.4
31	---	---	---	8.2	8.1	8.2	---	---	---	8.6	8.3	8.4
MAX	8.3	8.2	8.3	8.7	8.4	8.5	8.8	8.4	8.6	8.7	8.4	8.5
MIN	8.0	8.0	8.0	8.1	8.1	8.1	8.0	7.9	7.9	8.0	7.7	7.8

03271510 Great Miami River near Linden Avenue at Miamisburg, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	8.6	8.3	8.5	8.1	7.9	8.0	8.9	8.4	8.6	8.1	7.7	7.9
2	8.5	8.3	8.4	8.0	7.9	7.9	9.0	8.3	8.7	8.1	7.8	8.0
3	8.5	8.3	8.4	8.1	8.0	8.0	9.0	8.1	8.7	8.1	7.9	8.0
4	8.6	8.3	8.4	8.4	8.1	8.2	9.0	8.1	8.7	8.3	7.9	8.0
5	8.6	8.3	8.4	8.4	8.2	8.3	8.8	8.2	8.6	8.4	7.9	8.1
6	8.7	8.4	8.5	8.5	8.2	8.3	8.7	8.2	8.5	8.4	7.8	8.2
7	8.7	8.4	8.5	8.6	8.2	8.4	8.7	8.1	8.4	8.5	7.9	8.3
8	8.7	8.4	8.5	8.7	8.3	8.5	8.7	8.1	8.4	8.5	8.1	8.3
9	8.6	8.2	8.4	8.8	8.3	8.5	8.8	8.3	8.5	8.5	8.2	8.3
10	8.5	8.3	8.4	8.9	8.4	8.6	8.9	8.2	8.7	8.5	8.1	8.3
11	8.5	8.2	8.3	8.8	8.4	8.7	8.9	8.2	8.7	8.6	8.2	8.4
12	8.4	8.1	8.3	8.8	8.3	8.6	9.0	8.2	8.7	8.8	8.2	8.5
13	8.2	7.9	8.1	8.6	8.3	8.4	8.8	8.4	8.7	8.7	8.3	8.5
14	8.2	7.9	8.0	8.6	8.2	8.3	8.8	8.4	8.6	8.6	8.2	8.4
15	8.4	8.1	8.3	8.8	8.3	8.5	8.6	8.3	8.4	8.4	8.1	8.3
16	8.4	8.2	8.3	8.8	8.4	8.6	8.4	8.1	8.2	8.2	7.7	7.9
17	8.5	8.2	8.3	8.7	8.4	8.5	8.5	8.1	8.2	7.8	7.7	7.7
18	8.6	8.3	8.4	8.9	8.2	8.4	8.6	8.2	8.4	7.9	7.7	7.8
19	8.7	8.3	8.5	8.9	8.3	8.6	8.7	8.3	8.4	8.0	7.6	7.9
20	8.8	8.4	8.6	8.9	8.4	8.7	8.7	8.3	8.5	8.0	7.7	7.9
21	8.9	8.4	8.6	8.8	8.4	8.6	8.8	8.2	8.5	8.0	7.8	7.9
22	8.9	8.4	8.6	8.7	8.3	8.5	8.9	8.4	8.6	8.1	7.9	7.9
23	8.9	8.3	8.6	8.8	8.2	8.5	9.0	8.6	8.8	8.1	7.9	8.0
24	8.8	8.2	8.6	8.9	8.3	8.6	9.0	8.6	8.8	8.2	7.9	8.0
25	8.8	8.2	8.6	8.9	8.3	8.6	8.9	8.3	8.8	8.1	7.8	8.0
26	8.6	8.2	8.4	9.0	8.0	8.6	8.8	8.3	8.5	7.8	7.7	7.7
27	8.8	8.0	8.4	8.7	8.1	8.4	8.4	8.0	8.2	7.8	7.7	7.8
28	8.6	8.3	8.5	8.7	8.0	8.3	8.4	8.0	8.1	7.8	7.8	7.8
29	8.6	8.3	8.5	9.0	8.3	8.7	8.7	7.9	8.1	7.9	7.8	7.8
30	8.4	8.1	8.3	8.9	8.5	8.7	8.6	8.2	8.4	7.9	7.9	7.9
31	---	---	---	8.8	8.3	8.6	8.3	7.9	8.1	---	---	---
MAX	8.9	8.4	8.6	9.0	8.5	8.7	9.0	8.6	8.8	8.8	8.3	8.5
MIN	8.2	7.9	8.0	8.0	7.9	7.9	8.3	7.9	8.1	7.8	7.6	7.7
YEAR	MAX	MAXIMUM 9.1 MINIMUM 7.8		MIN	MAXIMUM 8.7 MINIMUM 7.6		MEDIAN	MAXIMUM 8.9 MINIMUM 7.7				

TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	19.9	17.3	18.8	16.7	15.7	16.0	7.9	7.3	7.6	4.4	2.1	3.2
2	20.0	18.7	19.3	16.6	15.6	16.1	7.4	6.6	6.9	6.1	4.4	5.2
3	19.2	16.8	18.1	15.6	14.6	14.9	6.6	6.0	6.3	9.1	6.1	8.0
4	18.7	16.5	17.8	14.6	12.8	13.7	6.2	5.5	5.9	9.4	8.5	9.1
5	17.9	15.6	16.9	12.9	11.7	12.3	6.6	5.5	6.0	8.5	6.1	7.3
6	17.7	15.0	16.5	12.2	11.2	11.6	7.7	6.3	7.1	6.1	4.2	5.1
7	17.6	15.1	16.5	13.1	11.3	12.0	10.1	7.7	9.1	4.2	3.5	3.7
8	18.3	15.8	17.2	12.6	10.8	11.7	10.4	9.6	10	3.6	3.5	3.5
9	18.3	17.0	17.7	11.8	10.2	10.9	9.6	9.0	9.2	4.0	3.4	3.6
10	18.4	16.2	17.4	11.3	9.7	10.5	9.3	9.0	9.2	4.2	3.9	4.1
11	17.8	15.9	17.0	10.8	9.9	10.3	9.3	8.1	8.8	5.9	4.2	4.6
12	17.1	15.4	16.5	10.7	9.3	10	8.1	6.9	7.4	7.3	5.8	6.5
13	17.0	16.0	16.3	10.0	8.6	9.2	6.9	5.3	6.1	9.0	7.3	8.1
14	16.6	15.9	16.3	9.8	7.9	8.8	5.3	4.3	4.8	8.7	6.8	7.8
15	16.4	14.6	15.4	9.7	7.8	8.7	4.3	3.5	4.0	6.8	5.7	6.2
16	14.6	12.9	13.7	9.7	8.5	9.1	3.7	3.2	3.4	5.7	4.6	5.1
17	13.2	11.3	12.3	10.7	9.4	10	4.1	3.0	3.5	4.6	3.8	4.1
18	12.7	10.7	11.5	12.4	10.7	11.4	4.3	3.2	3.7	3.8	2.7	3.2
19	11.9	11.0	11.4	13.5	12.2	12.8	4.0	2.2	3.3	2.9	2.3	2.4
20	13.0	11.9	12.3	13.8	13.3	13.4	2.2	1.2	1.6	2.5	1.9	2.3
21	14.1	12.7	13.3	13.3	12.3	12.9	2.7	0.7	1.7	2.6	1.7	2.1
22	14.8	13.0	13.8	12.3	11.9	12.1	2.5	0.5	1.8	2.6	1.9	2.3
23	15.2	13.9	14.4	12.3	11.8	12.0	0.5	0.4	0.4	1.9	0.9	1.3
24	16.4	14.5	15.4	12.8	12.1	12.4	0.6	0.4	0.5	1.7	0.6	1.1
25	16.8	14.5	15.6	12.4	9.3	11.1	0.6	0.4	0.5	3.0	1.4	2.0
26	16.5	14.7	15.7	9.3	7.5	7.9	0.9	0.5	0.7	3.6	2.7	3.2
27	16.4	15.8	16.1	7.6	7.1	7.4	1.1	0.4	0.7	3.4	2.4	2.7
28	16.8	15.0	15.9	7.6	7.1	7.4	1.6	0.6	1.0	2.4	1.5	1.9
29	18.2	16.0	16.8	7.1	6.5	7.0	2.8	1.5	2.1	2.8	2.0	2.4
30	18.8	17.4	18.0	7.5	6.9	7.1	3.3	2.2	2.8	4.0	2.8	3.5
31	18.0	16.6	17.1	---	---	---	4.0	1.9	3.4	4.1	3.3	3.7
MONTH	20.0	10.7	15.8	16.7	6.5	11.0	10.4	0.4	4.5	9.4	0.6	4.2

03271510 Great Miami River near Linden Avenue at Miamisburg, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	15.0	8.4	11.5	10.3	8.5	9.4	12.2	11.6	11.9	13.3	12.6	13.1
2	14.6	8.0	10.8	10.3	8.8	9.4	12.5	12.0	12.2	13.0	12.3	12.5
3	16.1	8.5	11.8	10.7	9.1	9.7	12.7	12.2	12.4	12.4	10.9	11.4
4	18.5	8.7	13.4	10.1	9.3	9.8	12.9	12.4	12.6	11.6	11.1	11.3
5	18.7	9.0	13.4	11.3	10.1	10.6	13.2	12.6	12.8	12.2	11.5	11.7
6	18.3	9.2	13.3	11.9	10.6	11.1	12.8	12.2	12.5	13.3	12.1	12.5
7	18.1	9.4	13.6	12.0	10.7	11.2	12.2	11.2	11.7	13.5	13.2	13.4
8	16.5	9.2	13.0	12.5	10.7	11.4	12.0	10.9	11.4	13.5	10.8	12.9
9	14.2	8.7	11.7	12.9	10.9	11.7	11.6	11.2	11.5	11.9	10.3	11.2
10	15.8	8.8	12.0	13.6	11.0	12.1	11.6	11.2	11.4	12.1	10.6	11.7
11	15.8	9.0	12.3	12.5	11.1	11.7	11.7	11.0	11.3	11.9	11.0	11.4
12	15.0	9.1	12.1	12.8	11.1	11.8	12.5	11.6	12.0	---	---	---
13	12.3	8.9	10.5	14.3	11.4	12.4	13.1	12.0	12.5	---	---	---
14	10.7	9.0	9.9	14.6	11.6	12.8	13.8	12.8	13.2	---	---	---
15	9.5	7.7	8.7	15.2	12.1	13.3	14.5	13.2	13.8	---	---	---
16	10.8	8.4	9.4	15.0	11.7	13.0	14.8	13.7	14.2	---	---	---
17	12.6	9.0	10.5	13.3	11.3	12.2	15.3	13.9	14.5	---	---	---
18	11.3	9.2	9.9	13.9	11.1	12.1	14.9	13.9	14.2	---	---	---
19	10.1	9.8	9.9	11.6	10.2	10.8	15.1	13.5	14.2	---	---	---
20	10.4	9.5	9.9	11.1	9.8	10.4	16.2	14.5	15.3	---	---	---
21	10.6	9.3	9.8	11.1	10.1	10.4	16.2	14.9	15.4	---	---	---
22	11.0	9.2	10	11.2	10.2	10.6	15.7	14.2	14.9	---	---	---
23	10.1	8.8	9.5	11.6	10.3	10.9	16.7	14.4	15.4	---	---	---
24	10.5	8.8	9.4	10.8	10.4	10.6	16.6	15.0	15.7	---	---	---
25	10.9	8.6	9.5	11.6	10.3	10.8	16.3	15.2	15.7	---	---	---
26	11.7	8.6	9.9	12.4	11.4	11.8	15.9	14.5	15.1	---	---	---
27	10.6	8.6	9.5	12.5	12.2	12.4	16.6	14.6	15.4	14.6	14.0	14.4
28	12.0	9.0	10.1	12.7	12.1	12.4	16.0	14.4	15.1	14.9	14.5	14.7
29	10.9	8.7	9.6	12.7	11.8	12.4	15.5	13.9	14.6	14.6	14.0	14.4
30	10.6	8.6	9.5	12.3	11.9	12.2	14.8	13.2	13.9	14.0	13.5	13.7
31	11.3	8.3	9.6	---	---	---	13.3	12.9	13.1	13.5	13.3	13.4
MONTH	18.7	7.7	10.8	15.2	8.5	11.4	16.7	10.9	13.5	14.9	10.3	12.7

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	13.4	13.1	13.3	13.6	12.7	13.1	12.1	10.4	11.1	11.7	10.8	11.2
2	13.1	13.0	13.1	14.2	13.4	13.8	12.2	11.1	11.7	12.0	10.8	11.3
3	13.0	12.7	12.9	14.3	13.8	14.0	12.6	12.0	12.3	12.4	11.0	11.6
4	13.0	12.4	12.6	14.2	13.5	13.8	12.1	11.6	12.0	12.9	11.0	11.9
5	12.7	12.4	12.6	14.4	13.3	13.7	11.6	10.9	11.4	13.5	10.7	11.9
6	12.6	12.3	12.4	14.0	12.9	13.5	11.6	10.4	10.9	14.1	10.3	11.9
7	12.5	12.2	12.3	12.9	12.2	12.6	11.5	9.8	10.5	14.7	9.8	11.9
8	13.0	12.1	12.4	13.0	12.1	12.5	13.4	9.8	11.3	16.2	9.5	12.2
9	13.1	13.0	13.1	13.7	12.9	13.3	14.1	10.0	11.7	16.8	9.0	12.2
10	13.5	13.1	13.3	14.3	13.5	13.8	14.1	9.8	11.6	15.7	8.3	11.5
11	13.7	13.5	13.7	14.7	13.6	14.0	14.7	9.6	11.7	14.8	7.6	10.9
12	13.7	13.3	13.5	15.2	13.5	14.2	11.9	9.3	10.6	12.6	6.3	9.1
13	13.3	12.9	13.1	15.6	13.6	14.4	14.4	9.6	11.5	13.8	8.0	10.2
14	12.9	12.5	12.7	15.8	13.6	14.4	15.5	10.1	12.4	9.3	7.4	8.4
15	12.6	12.2	12.5	15.7	12.9	14.2	17.4	10.2	13.2	8.7	7.6	8.2
16	12.3	12.1	12.2	16.5	12.5	13.9	18.0	10.7	13.7	10.8	8.3	9.6
17	13.3	12.2	12.8	16.7	12.4	14.0	18.4	10.6	13.9	12.4	9.2	10.5
18	13.6	13.3	13.5	17.0	12.2	14.1	16.2	10.1	13.1	12.3	8.9	10.3
19	14.0	13.6	13.9	13.4	11.6	12.4	15.5	9.7	12.3	10.0	8.3	8.9
20	13.9	13.4	13.7	14.2	11.4	12.4	14.1	9.2	11.5	8.5	7.4	7.9
21	13.4	13.0	13.1	18.7	12.0	14.6	11.8	8.8	10.1	9.6	8.3	8.9
22	13.3	13.0	13.1	16.6	12.8	14.4	11.7	9.5	10.2	9.6	8.3	8.9
23	13.4	13.1	13.2	12.8	12.0	12.3	10.6	9.5	10.0	10.9	8.3	9.6
24	13.4	13.1	13.3	16.7	11.8	13.7	12.3	10.6	11.7	11.2	8.9	10
25	13.9	13.4	13.7	15.5	12.5	13.7	12.7	12.2	12.5	12.2	9.2	10.5
26	13.9	13.4	13.7	13.5	11.9	12.6	12.2	11.5	11.9	12.6	8.9	10.5
27	13.8	13.3	13.5	12.5	11.9	12.2	12.0	11.5	11.7	12.1	8.5	10.1
28	13.4	12.7	13.0	12.2	11.8	12.0	12.1	11.8	12.0	12.8	8.4	10.4
29	---	---	---	12.3	11.8	12.1	11.8	10.8	11.4	14.1	8.6	11.0
30	---	---	---	11.9	11.1	11.7	11.1	10.7	10.9	13.9	7.9	10.4
31	---	---	---	11.5	10.7	11.0	---	---	---	13.2	7.5	10.1
MONTH	14.0	12.1	13.1	18.7	10.7	13.3	18.4	8.8	11.7	16.8	6.3	10.4

03271601 Great Miami River below Miamisburg, Ohio

LOCATION.—Latitude 39°36'24", longitude 84°17'13", in sec. 23, R.5, T.2, Montgomery County, Hydrologic Unit 05080002, on right bank 50 ft below outflow and dam of Hutchings Power station, 0.3 mi upstream of Crains Run at south edge of Miamisburg, Ohio corporate boundary, and at mile 63.4.

DRAINAGE AREA.—2,715 mi².

PERIOD OF RECORD.—October 1991 to current year.

REVISED RECORDS.—WDR OH-04-1: 2003.

GAGE.—Water-stage recorder. Datum of gage is 670.00 ft above sea level.

REMARKS.—Records fair except for periods of estimated record, which are poor. Diurnal fluctuation caused by powerplant at gage. Flood flow regulated by retarding dams on Mad River 22 mi upstream, Stillwater River 26 mi upstream, Great Miami River 26 mi upstream, and Loramic Creek 55 mi upstream.

COOPERATION.—Base data furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	628	e576	2840	e19200	e2600	e3010	e4030	5670	1710	6060	717	3070
2	642	669	3830	e18800	e2470	e2980	e4570	4670	1620	4430	670	2780
3	587	788	3520	e20700	e2400	e2990	e10200	3930	1570	2880	640	2080
4	581	1870	2640	e28600	e2380	e2820	e7440	3440	1550	1950	615	1470
5	566	1780	2130	38900	e2410	e2650	e5270	3090	1520	1510	632	1110
6	553	1850	1810	48500	e2530	e3220	e4130	2800	1520	1310	755	870
7	562	1460	1830	48800	e3080	e4400	e3580	2650	1340	1200	704	781
8	546	1080	2070	39500	e11500	e4340	e3360	2550	1270	1070	642	709
9	538	936	2640	30500	e16100	e3620	e3220	2440	1490	965	596	801
10	466	927	2480	22900	e15300	e3040	e2800	2320	1470	856	583	723
11	453	951	2500	22200	e10900	e2720	e2470	2210	1280	810	586	669
12	508	1350	2460	36100	e7070	e2510	e2300	2560	1450	827	739	713
13	571	1030	2410	e39700	e5560	e2360	2590	2350	2910	830	569	661
14	545	1050	1930	e38700	e5480	e2200	2390	3750	2110	833	597	594
15	637	1030	1660	e32500	e8500	e2050	2260	4720	2130	819	674	593
16	603	1000	1510	e26300	e7090	e1900	2080	4140	1760	1010	e641	3390
17	568	932	1330	e19200	e8800	e1790	1970	3260	1520	1450	691	3590
18	1360	964	1240	e15200	e6960	e1740	1740	2730	1400	1030	682	2720
19	1360	1110	1210	e13100	e5050	e1750	1700	2860	1300	964	672	1730
20	802	1570	990	e10900	e4170	e1840	1640	6850	1100	900	601	1900
21	715	2220	969	e7160	e4190	e1740	1840	5590	1010	1050	633	1330
22	674	2010	1150	e5520	e4670	e1730	2560	4140	1080	1260	632	1100
23	688	1620	856	e4790	e4300	e2430	8300	3390	932	1010	568	951
24	935	1480	e800	e4300	e3820	e2510	18300	2940	870	793	573	1170
25	790	3040	e760	e4420	e3470	e2630	17900	2620	1080	728	527	4980
26	726	e6500	e740	e4030	e3150	e4750	15100	2370	1270	721	551	7490
27	e730	e4500	e720	e3420	e3010	e6150	e14400	2190	1220	730	647	9590
28	e713	3470	e690	e2940	e3020	e15100	12400	2070	1420	729	628	6780
29	e720	2850	e690	e2850	---	e10700	8410	1910	1720	846	616	4520
30	e658	2570	e1200	e2830	---	e6980	6650	1830	2410	949	1190	3500
31	e604	---	e8920	e2690	---	e5070	---	1870	---	822	2800	---
TOTAL	21029	53183	60525	615250	159980	113720	175600	99910	45032	41342	22371	72365
MEAN	678	1773	1952	19850	5714	3668	5853	3223	1501	1334	722	2412
MAX	1360	6500	8920	48800	16100	15100	18300	6850	2910	6060	2800	9590
MIN	453	576	690	2690	2380	1730	1640	1830	870	721	527	593
CFSM	0.25	0.65	0.72	7.31	2.10	1.35	2.16	1.19	0.55	0.49	0.27	0.89
IN.	0.29	0.73	0.83	8.43	2.19	1.56	2.41	1.37	0.62	0.57	0.31	0.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992-2005, BY WATER YEAR (WY)

MEAN	1303	2167	2657	4831	3273	3964	4649	4150	3496	3032	1502	1347
MAX	5359	6603	7690	19850	5714	7637	9141	11920	6770	10720	5404	5953
(WY)	2002	1994	1997	2005	2005	2003	2002	1996	1997	2003	1995	2003
MIN	402	403	553	867	842	1143	2124	1239	978	832	464	298
(WY)	2000	2000	2000	1992	1992	1992	1997	1992	1999	1999	1999	1999

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992-2005	
ANNUAL TOTAL	1104940		1480307			
ANNUAL MEAN	3019		4056		3030	
HIGHEST ANNUAL MEAN					4283	
LOWEST ANNUAL MEAN					1742	
HIGHEST DAILY MEAN	35300	Jan 5	48800	Jan 7	48800	Jan 7
LOWEST DAILY MEAN	453	Oct 11	453	Oct 11	250	Sep 27
ANNUAL SEVEN-DAY MINIMUM	518	Oct 6	518	Oct 6	265	Sep 23
MAXIMUM PEAK FLOW			50900		50900	
MAXIMUM PEAK STAGE			21.47		21.47	
INSTANTANEOUS LOW FLOW					122	
ANNUAL RUNOFF (CFSM)	1.11		1.49		1.12	
ANNUAL RUNOFF (INCHES)	15.14		20.28		15.17	
10 PERCENT EXCEEDS	6510		8450		6910	
50 PERCENT EXCEEDS	1920		1870		1580	
90 PERCENT EXCEEDS	643		639		548	

e Estimated.

03272000 Twin Creek near Germantown, Ohio

LOCATION.—Latitude 39°38'16", longitude 84°24'14", in NW ¼ sec. 11, T.3 N., R.4 E., Montgomery County, Hydrologic Unit 05080002, on left bank upstream side of Germantown Dam, 1.5 mi northwest of Germantown, Ohio, and 3.3 mi upstream from Little Twin Creek.

DRAINAGE AREA.—275 mi².

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 724.00 ft, National Geodetic Vertical Datum of 1912. Prior to Dec. 18, 1926, nonrecording gage at site 1.3 mi downstream at datum 11.27 ft lower. Dec. 1926 to Oct. 2003 at site 0.3 mi downstream at datum 23.76 ft lower.

REMARKS.—Records good except for periods of estimated record, which are poor. Flood flow regulated by Germantown retarding basin, 0.3 mi upstream, beginning in 1920.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,390 ft³/s July 8, 1915, gage height 11.7 ft, from graph based on gage readings, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 25, 1913, reached a stage of 18.3 ft, original site and datum; discharge, 66,000 ft³/s, computed by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	11	18	286	4270	e135	204	316	342	94	1210	19	70	
2	11	21	363	2440	e130	167	447	276	89	447	18	42	
3	11	22	207	4480	e125	146	830	233	90	176	17	28	
4	11	34	149	6000	e120	141	452	199	86	109	17	21	
5	10	63	120	5880	e120	152	317	173	79	82	16	17	
6	10	46	108	7840	e170	197	257	158	75	69	18	15	
7	11	40	121	7830	662	219	246	140	69	59	22	14	
8	11	32	307	6390	2910	205	241	132	64	52	18	13	
9	11	29	216	2480	1500	159	195	122	61	46	17	e22	
10	11	27	214	1080	1000	133	160	117	61	41	16	e18	
11	11	27	339	1650	572	126	147	113	60	38	14	15	
12	11	45	325	5820	389	124	139	222	58	37	13	13	
13	13	83	225	4240	331	110	141	182	215	38	13	12	
14	14	62	155	3800	594	96	119	617	199	40	12	11	
15	16	47	119	1290	829	93	99	863	111	42	12	11	
16	15	41	107	810	660	87	92	380	86	42	13	219	
17	15	39	100	575	676	87	88	274	71	84	14	234	
18	22	37	94	425	385	87	87	231	61	51	e12	86	
19	48	42	87	e380	267	87	86	252	55	42	e12	49	
20	34	117	67	e340	231	90	85	1120	51	35	12	69	
21	26	112	e62	e310	283	82	89	479	47	32	12	85	
22	23	86	e56	e290	286	78	107	303	43	35	11	58	
23	21	72	e65	e260	239	122	1530	271	41	33	10	43	
24	22	70	e110	e230	228	155	1860	214	38	30	e9.8	34	
25	22	271	e92	e210	209	147	949	174	37	28	e9.6	31	
26	21	245	e77	e190	195	350	675	141	52	26	9.5	62	
27	21	145	e66	e170	183	312	1400	130	107	25	10	202	
28	21	137	e60	e160	192	2590	667	126	66	25	11	108	
29	20	139	e52	e150	---	1770	442	111	55	23	9.9	72	
30	20	117	161	e145	---	739	384	105	68	22	25	56	
31	18	---	3630	e140	---	469	---	101	---	20	104	---	
TOTAL	542	2266	8140	70275	13621	9524	12647	8301	2289	3039	526.8	1730	
MEAN	17.5	75.5	263	2267	486	307	422	268	76.3	98.0	17.0	57.7	
MAX	48	271	3630	7840	2910	2590	1860	1120	215	1210	104	234	
MIN	10	18	52	140	120	78	85	101	37	20	9.5	11	
CFSM	0.06	0.27	0.95	8.24	1.77	1.12	1.53	0.97	0.28	0.36	0.06	0.21	
IN.	0.07	0.31	1.10	9.51	1.84	1.29	1.71	1.12	0.31	0.41	0.07	0.23	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921-2005 BY WATER YEAR (WY)													
MEAN	64.5	160	302	467	445	517	481	354	246	137	70.9	47.5	
MAX	718	978	1398	2669	1214	1304	1421	1723	1237	882	636	509	
(WY)	1987	1986	1991	1937	1950	1978	1922	1996	1958	1929	1979	1950	
MIN	4.07	5.24	5.19	9.23	20.1	54.7	69.5	26.4	14.1	8.46	5.77	3.79	
(WY)	1945	1945	1945	1945	1935	1954	1941	1934	1934	1930	1988	1953	
SUMMARY STATISTICS													
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR			WATER YEARS 1921-2005		
ANNUAL MEAN				116291				132900.8					
HIGHEST ANNUAL MEAN				318				364			272		
LOWEST ANNUAL MEAN											493		
HIGHEST DAILY MEAN				7620 Jan 5				7840 Jan 6			8450 Jan 22		
LOWEST DAILY MEAN				10 Sep 29				9.5 Aug 26			2.0 Sep 25		
ANNUAL SEVEN-DAY MINIMUM				11 Sep 29				10 Aug 23			2.7 Sep 19		
MAXIMUM PEAK FLOW								8280 Jan 6			8790 Jan 27		
MAXIMUM PEAK STAGE								52.91 Jan 6			52.91 Jan 6		
INSTANTANEOUS LOW FLOW											1.5 Sep 25		
ANNUAL RUNOFF (CFSM)				1.16				1.32			0.99		
ANNUAL RUNOFF (INCHES)				15.73				17.98			13.42		
10 PERCENT EXCEEDS				534				661			600		
50 PERCENT EXCEEDS				120				92			84		
90 PERCENT EXCEEDS				17				14			13		

e Estimated.

03272100 Great Miami River at Middletown, Ohio

LOCATION.—Latitude 39°31'12", longitude 84°24'51", Butler County, Hydrologic Unit 05080002, on downstream side of Central Avenue bridge on State Route 122, 1.9 mi downstream from Browns Run, and on northwest side of city of Middletown, Ohio.

DRAINAGE AREA.—3,134 mi².

PERIOD OF RECORD.—July 1994 to current year.

GAGE.—Water-stage recorder. Datum of gage is 626 ft above sea level (levels by Miami Conservancy District).

REMARKS.—Records fair except for periods of estimated record, which are poor. Some regulation and diversion at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station (see REMARKS for station numbers 03271500 and 03272000). Water-temperature data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	667	3220	24200	3000	3480	5220	6590	1940	8440	737	2770
2	604	724	4410	21200	2850	3270	5690	5570	1840	5330	657	2700
3	559	868	4260	26300	2750	3060	10400	4580	1800	3300	598	1960
4	545	1730	3140	32700	2710	2900	9050	3860	1760	2180	584	1350
5	540	1960	2570	41900	2730	2960	6520	3410	1710	1630	571	990
6	540	1850	2210	49200	3010	3380	5270	3080	1730	1380	617	823
7	542	1540	2120	48500	4000	4930	4560	2890	1600	1200	627	719
8	545	1220	2570	41800	14200	5400	4120	2760	1550	1110	596	659
9	531	1040	3130	33100	18500	4470	4040	2660	1690	967	536	761
10	507	985	3150	24900	16500	3660	3450	2520	1670	905	524	681
11	487	935	3170	23900	12200	3220	3050	2440	1460	865	516	605
12	515	1370	3050	38500	8010	2960	2790	2860	1570	883	622	633
13	608	1100	2980	42500	6460	2800	2810	2680	3570	874	542	619
14	588	1060	2520	41500	6570	2590	2610	4120	2450	844	492	545
15	629	1120	2120	34400	8930	2410	2470	5950	2420	852	592	534
16	621	1020	1820	28600	8400	2250	2290	4950	1950	924	576	2560
17	572	944	1640	21000	9190	2110	2150	3790	1660	1540	597	3850
18	1230	962	1490	16500	8120	2050	2070	3120	1500	1080	604	2810
19	1930	1110	1440	14300	5960	2050	2000	3120	1370	1000	598	1790
20	917	1570	1280	12200	5060	2220	1940	7730	1280	1000	540	1870
21	795	2230	1160	8540	5080	2060	1970	6460	1190	e1100	509	1420
22	741	2180	e1050	6580	5590	2010	2660	4950	1090	e1200	468	1110
23	720	1730	e940	5890	5180	3100	9030	3980	1010	e1000	464	972
24	994	1540	e840	5240	4540	3060	21000	3360	1020	e900	488	891
25	856	2590	e780	5470	4180	3100	20200	2970	995	e820	435	3930
26	771	7120	e760	5070	3750	5100	16800	2730	1420	e800	473	7090
27	771	5100	e740	4260	3360	7250	16500	2460	1320	e780	490	9450
28	772	4000	e730	3540	3230	14700	14200	2310	1770	759	498	7200
29	741	3230	e720	3390	---	14200	9670	2180	1870	731	540	4880
30	694	2930	1940	3380	---	8770	7660	2050	2660	840	778	3540
31	690	---	11900	3210	---	6450	---	2110	---	786	2930	---
TOTAL	22128	56425	73850	671770	184060	131970	202190	114240	50865	46020	19799	69712
MEAN	714	1881	2382	21670	6574	4257	6740	3685	1696	1485	639	2324
MAX	1930	7120	11900	49200	18500	14700	21000	7730	3570	8440	2930	9450
MIN	487	667	720	3210	2710	2010	1940	2050	995	731	435	534
CFSM	0.23	0.60	0.76	6.91	2.10	1.36	2.15	1.18	0.54	0.47	0.20	0.74
IN.	0.26	0.67	0.88	7.97	2.18	1.57	2.40	1.36	0.60	0.55	0.24	0.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994-2005, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	1567	1787	3335	5917	4101	4906	5508	5836	4603	2677	1645	1465
MAX	6589	4893	8508	21670	6574	9319	11390	13960	7646	10250	5726	5894
(WY)	2002	2004	1997	2005	2005	2003	2002	1996	2004	2003	1995	2003
MIN	352	369	560	1220	1370	1739	2306	1637	1168	918	456	282
(WY)	2000	2000	2000	2000	1995	2001	1997	1999	1999	1999	1999	1999

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994-2005	
ANNUAL TOTAL	1405103		1643029			
ANNUAL MEAN	3839		4501		3626	
HIGHEST ANNUAL MEAN					4869	
LOWEST ANNUAL MEAN					1958	
HIGHEST DAILY MEAN	42700	Jan 5	49200	Jan 6	49200	Jan 6
LOWEST DAILY MEAN	487	Oct 11	435	Aug 25	220	Sep 16
ANNUAL SEVEN-DAY MINIMUM	520	Sep 23	474	Aug 22	236	Sep 15
MAXIMUM PEAK FLOW			50900		50900	
MAXIMUM PEAK STAGE			14.21		14.21	
INSTANTANEOUS LOW FLOW					110	
ANNUAL RUNOFF (CFSM)	1.22		1.44		1.16	
ANNUAL RUNOFF (INCHES)	16.68		19.50		15.72	
10 PERCENT EXCEEDS	7380		9110		8440	
50 PERCENT EXCEEDS	2740		2120		1920	
90 PERCENT EXCEEDS	682		598		572	

e Estimated.

03272700 Sevenmile Creek at Camden, Ohio

LOCATION.—Latitude 39°37'45", longitude 84°38'40", Preble County, Hydrologic Unit 05080002, on downstream right bank of bridge on State Highway 725 in Camden, Ohio, 0.3 mi downstream from Beasley Run, and at mile 16.2.

DRAINAGE AREA.—69.0mi².

PERIOD OF RECORD.—December 1970 to September 2000, October 2000 to September 2002 (recording crest-stage gage), October 2002 to current year.

GAGE.—Water-stage recorder. Datum of gage is 818.57 ft above sea level (levels by Miami Conservancy District). Prior to Oct. 1, 1975 at same site, datum 3.02 ft higher.

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	3.3	e19	81	e450	30	51	70	61	28	675	e8.3	9.2				
2	3.3	e20	66	e300	32	44	90	53	28	62	e7.7	6.1				
3	3.1	24	46	e2900	35	42	100	48	28	37	e7.2	4.9				
4	3.0	29	37	922	34	43	71	39	27	28	e6.6	4.4				
5	2.8	22	32	2810	39	45	61	37	26	24	e6.3	4.2				
6	3.0	20	30	2510	62	50	55	39	25	22	e7.2	4.1				
7	2.9	19	38	486	194	52	56	38	24	20	e8.6	4.1				
8	2.9	e18	60	521	630	47	50	36	23	18	7.6	4.1				
9	3.0	e17	47	311	285	41	45	35	22	17	e6.8	4.3				
10	2.9	e16	51	206	176	40	42	34	22	16	e6.1	4.1				
11	2.9	e18	65	687	109	41	40	33	25	16	e5.6	3.9				
12	3.0	32	61	1100	82	40	40	82	23	16	e5.2	3.8				
13	3.5	27	48	682	74	37	40	48	83	17	e4.8	3.9				
14	4.0	23	37	653	169	35	35	366	44	17	e4.5	4.0				
15	4.2	21	33	225	157	35	33	234	32	17	e4.2	4.0				
16	4.7	e20	31	137	145	34	32	99	28	36	e3.8	60				
17	3.8	e19	30	92	110	35	32	69	25	29	e3.6	17				
18	20	21	29	70	77	34	31	57	24	20	e3.5	9.0				
19	26	26	28	68	64	35	31	160	23	18	e3.5	7.0				
20	19	38	23	59	63	35	30	243	22	15	e4.0	19				
21	18	31	e20	53	71	33	e33	91	21	14	4.3	10				
22	18	27	e30	53	63	32	38	66	20	19	3.9	8.1				
23	19	25	e39	42	57	45	345	65	19	15	3.9	7.0				
24	23	27	e30	42	56	42	270	50	19	13	3.8	6.6				
25	19	55	e25	43	52	44	140	43	19	12	3.7	6.5				
26	e18	40	e23	43	49	62	142	39	19	11	3.7	21				
27	e17	33	e22	36	47	55	242	37	18	e10	3.9	15				
28	e15	38	e21	32	51	913	107	37	18	e10	3.9	11				
29	e14	34	e20	35	---	366	78	33	23	e9.8	3.7	9.6				
30	e17	32	e140	35	---	160	72	31	116	e9.6	22	7.9				
31	e20	---	e1300	32	---	98	---	30	---	e9.0	32	---				
TOTAL	319.3	791	2543	15635	3013	2666	2451	2333	874	1252.4	203.9	283.8				
MEAN	10.3	26.4	82.0	504	108	86.0	81.7	75.3	29.1	40.4	6.58	9.46				
MAX	26	55	1300	2900	630	913	345	366	116	675	32	60				
MIN	2.8	16	20	32	30	32	30	30	18	9.0	3.5	3.8				
CFSM	0.15	0.38	1.19	7.31	1.56	1.25	1.18	1.09	0.42	0.59	0.10	0.14				
IN.	0.17	0.43	1.37	8.43	1.62	1.44	1.32	1.26	0.47	0.68	0.11	0.15				
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971-2005, BY WATER YEAR (WY)																
MEAN	18.2	55.7	85.4	109	109	135	124	110	68.4	39.6	17.9	10.6				
MAX	126	266	281	504	276	344	323	421	269	210	91.6	60.4				
(WY)	1987	1986	1991	2005	1975	1978	1996	1989	1998	2003	1979	2003				
MIN	3.31	3.77	4.58	3.46	19.2	24.9	25.2	11.3	3.84	4.27	2.95	1.68				
(WY)	1998	2000	1977	1977	1978	1992	1976	1976	1988	1975	1975	1991				
SUMMARY STATISTICS																
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1971-2005						
ANNUAL TOTAL				32469.0			32365.4									
ANNUAL MEAN				88.7			88.7			74.0						
HIGHEST ANNUAL MEAN										117						
LOWEST ANNUAL MEAN										28.0						
HIGHEST DAILY MEAN				4860	Jan 4				5520	May 26	1989					
LOWEST DAILY MEAN				2.8	Oct 5				0.81	Sep 9	1991					
ANNUAL SEVEN-DAY MINIMUM				2.9	Oct 5				1.1	Sep 6	1991					
MAXIMUM PEAK FLOW							4180	Jan 5a				20200	May 26	1989		
MAXIMUM PEAK STAGE							10.59	Jan 5				18.67	May 26	1989		
INSTANTANEOUS LOW FLOW													1.2	Sep 6	1999	
ANNUAL RUNOFF (CFSM)				1.29			1.29			1.07						
ANNUAL RUNOFF (INCHES)				17.51			17.45			14.56						
10 PERCENT EXCEEDS				136			140			159						
50 PERCENT EXCEEDS				37			31			27						
90 PERCENT EXCEEDS				4.9			4.1			3.9						

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.
e Estimated.

03274000 Great Miami River at Hamilton, Ohio

LOCATION.—Latitude 39°23'28", longitude 84°34'20", in NE ¼ sec. 6, T.1 N., R.3 E., Butler County, Hydrologic Unit 05080002, on right bank 1,000 ft downstream from Columbia Bridge at Hamilton, Ohio, 3 mi downstream from Four Mile Creek, 4.3 mi upstream from Pleasant Run, and at mile 34.8.

DRAINAGE AREA.—3,630 mi².

PERIOD OF RECORD.—January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962 published as Miami River at Hamilton.

REVISED RECORDS.—WSP 803: 1936. WSP 1908: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 499.98 ft, National Geodetic Vertical Datum of 1912. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi upstream at datum 64.65 ft higher.

REMARKS.—Records good except for periods of estimated record, which are fair. Some regulation and diversion 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). The Miami and Erie Canal diverted water from the basin 1.7 mi upstream from station until Nov. 1, 1930, when the canal was abandoned; amount of diversion not known. Water-temperature data formerly collected at this site.

COOPERATION.—Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 26, 1913, reached a stage of 38.5 ft, site and datum then in use; discharge, 352,000 ft³/s, computed by Miami Conservancy District.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

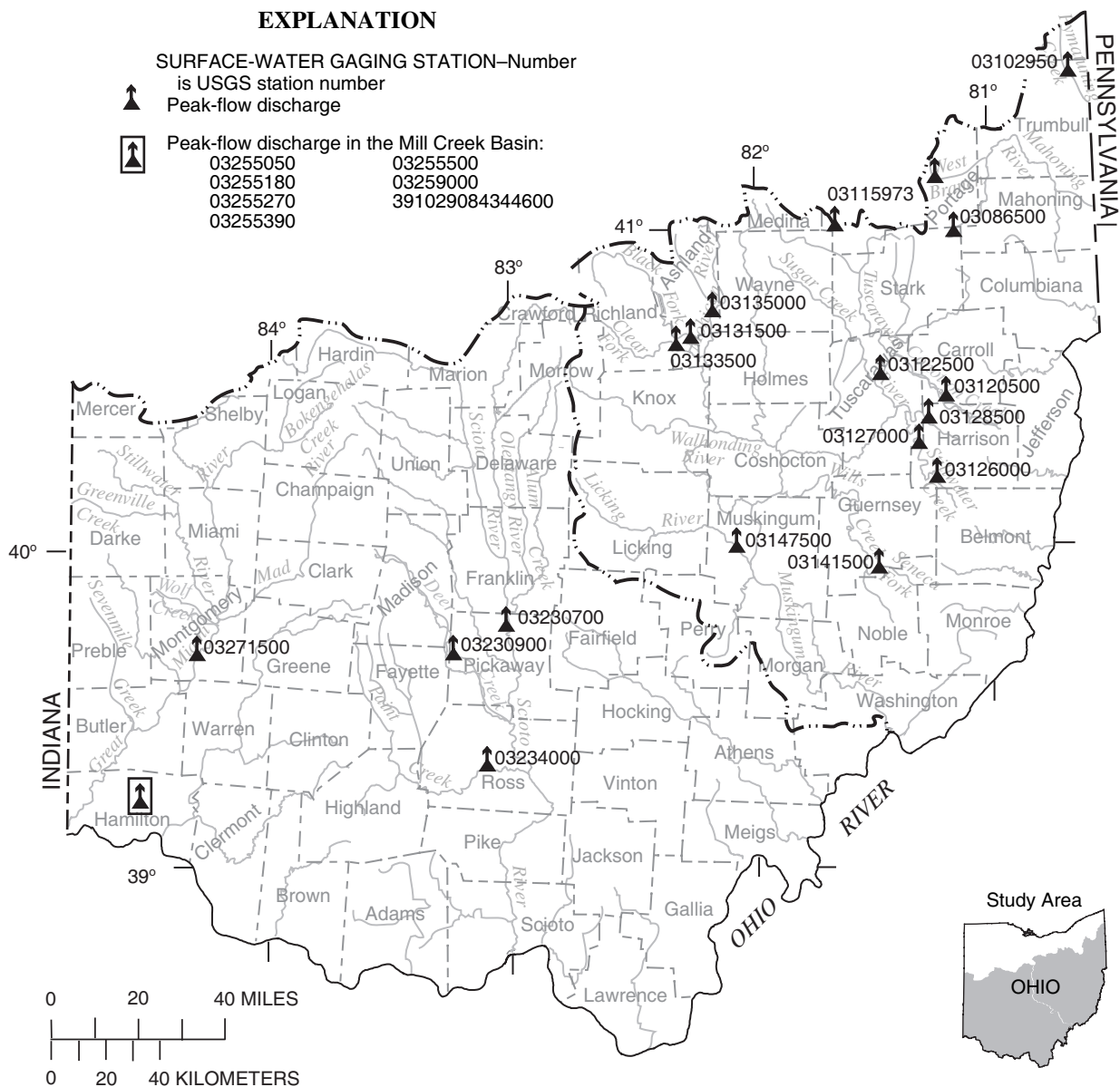
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	624	765	3330	24300	e3000	3750	5590	e7000	2170	11700	912	2810			
2	653	838	4120	21300	e3000	3700	5640	5740	2120	6310	847	2920			
3	626	1060	4310	29500	e3050	3700	9720	4710	2080	3910	762	2200			
4	595	1760	3330	34800	e3100	3700	e9240	4030	2050	2580	676	1580			
5	609	2220	2670	50700	3200	3700	6820	3560	2000	1940	687	1160			
6	621	1960	2310	65700	3500	3700	5400	3220	1970	1630	811	960			
7	655	1720	2310	52900	4280	4080	4720	3010	1920	1450	840	842			
8	646	1370	2730	46200	14400	5260	4290	2870	1820	1410	e810	754			
9	591	1180	3210	34500	19000	4520	4110	2760	1900	1250	631	848			
10	564	1090	3610	25200	16800	3830	3640	2600	1970	1150	665	771			
11	535	1060	3440	24200	13000	3430	3240	2570	1860	1090	652	658			
12	548	1450	3430	39700	8660	3190	2960	3020	1900	1010	750	660			
13	670	1350	3210	42000	6880	3030	2980	2970	4310	1040	729	661			
14	689	1200	2770	45600	7080	2830	2760	4440	3250	1050	614	609			
15	716	1240	2270	35600	9100	2640	2600	7260	2930	1060	703	569			
16	778	1180	2000	29000	9090	2420	2420	5780	2400	1130	e760	1560			
17	689	1080	1920	22100	9210	2250	2250	4500	2010	1780	e712	3900			
18	1270	1050	1640	17000	8700	2200	2190	3700	1770	1530	e702	2980			
19	2700	1430	1500	14700	6330	2190	2100	3720	1640	1280	e749	2000			
20	1210	1810	1470	12700	5230	2400	2070	8380	1580	1260	e720	2040			
21	980	2220	1230	9540	5170	2220	2180	7410	1440	1180	e710	1650			
22	879	2430	1380	7100	5500	2140	2670	5540	1330	1340	e699	1240			
23	868	1960	e1000	6350	5240	3400	7460	4510	1280	1240	676	1060			
24	1170	1710	e900	5470	4660	3450	e19200	3860	1230	942	622	930			
25	1030	2000	e820	5640	4310	3250	e18000	3410	1210	850	594	2690			
26	905	e6610	e800	5380	3930	4310	e16100	3070	1650	796	663	6680			
27	883	e5110	e840	4670	3590	7160	16300	2830	1670	777	655	8610			
28	898	4070	e1000	3960	3430	21000	e14900	2700	e1570	812	674	7190			
29	874	3280	1500	e3600	---	16900	e9000	2520	2080	746	667	4870			
30	828	2970	2410	e3300	---	10200	e8110	2360	2330	920	e1130	3540			
31	790	---	14200	e3100	---	7260	---	2340	---	913	3600	---			
TOTAL	26094	59173	81660	725810	192440	147810	198660	126390	59440	56076	25422	68942			
MEAN	842	1972	2634	23410	6873	4768	6622	4077	1981	1809	820	2298			
MAX	2700	6610	14200	65700	19000	21000	19200	8380	4310	11700	3600	8610			
MIN	535	765	800	3100	3000	2140	2070	2340	1210	746	594	569			
CFSM	0.23	0.54	0.73	6.45	1.89	1.31	1.82	1.12	0.55	0.50	0.23	0.63			
IN.	0.27	0.61	0.84	7.44	1.97	1.51	2.04	1.30	0.61	0.57	0.26	0.71			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927-2005, BY WATER YEAR (WY)															
MEAN	1133	1991	3344	5200	5180	6030	5873	4361	3304	2281	1409	1063			
MAX	6728	10060	13280	29460	14410	15590	13760	17390	14860	10100	7613	6861			
(WY)	1987	1973	1991	1937	1950	1963	1964	1996	1958	2003	1979	2003			
MIN	279	286	323	434	502	826	1219	602	445	335	391	319			
(WY)	1964	1935	1935	1977	1964	1941	1941	1934	1934	1936	1936	1963			
SUMMARY STATISTICS															
ANNUAL TOTAL				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1927-2005			
ANNUAL TOTAL				1497227				1767917							
ANNUAL MEAN				4091				4844				3419			
HIGHEST ANNUAL MEAN												5778			
HIGHEST ANNUAL MEAN												931			
HIGHEST ANNUAL MEAN												1954			
HIGHEST DAILY MEAN				57500				Jan 5				65700			
HIGHEST DAILY MEAN												Jan 6			
HIGHEST DAILY MEAN												73900			
HIGHEST DAILY MEAN												Jan 22			
HIGHEST DAILY MEAN												1959			
LOWEST DAILY MEAN				523				Sep 28				535			
LOWEST DAILY MEAN												Oct 11			
LOWEST DAILY MEAN												155			
LOWEST DAILY MEAN												Sep 27			
LOWEST DAILY MEAN												1941			
ANNUAL SEVEN-DAY MINIMUM				550				Sep 24				594			
ANNUAL SEVEN-DAY MINIMUM												Oct 6			
ANNUAL SEVEN-DAY MINIMUM												201			
ANNUAL SEVEN-DAY MINIMUM												Sep 26			
ANNUAL SEVEN-DAY MINIMUM												1941			
MAXIMUM PEAK FLOW												71500			
MAXIMUM PEAK FLOW												Jan 6			
MAXIMUM PEAK FLOW												108000			
MAXIMUM PEAK FLOW												Jan 21			
MAXIMUM PEAK FLOW												1959			
MAXIMUM PEAK STAGE												75.61			
MAXIMUM PEAK STAGE												Jan 6			
MAXIMUM PEAK STAGE												79.47			
MAXIMUM PEAK STAGE												Jan 21			
MAXIMUM PEAK STAGE												1959			
INSTANTANEOUS LOW FLOW												440			
INSTANTANEOUS LOW FLOW												Aug 25			
INSTANTANEOUS LOW FLOW												155			
INSTANTANEOUS LOW FLOW												Sep 27			
INSTANTANEOUS LOW FLOW												1941			
ANNUAL RUNOFF (CFSM)				1.13				1.33				0.94			
ANNUAL RUNOFF (INCHES)				15.34				18.12				12.80			
10 PERCENT EXCEEDS				7670				9360				7800			
50 PERCENT EXCEEDS				2720				2310				1670			
90 PERCENT EXCEEDS				713				707				514			

e Estimated.

Discharge at Partial-Record Stations and Miscellaneous Sites

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the USGS collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites for special studies are given in separate tables in Volume 2 of this report.



The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that 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, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

MEASUREMENTS OF DISCHARGE AT MISCELLANEOUS SITES

[mi², square miles; ft, feet; ft³/s, cubic feet per second; ≠, operated as a continuous-record gaging station; --a, insufficient data to determine discharge]

Location	Drainage area (mi ²)	Period of record	Water year 2005 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
Beaver River Basin								
03086500 MAHONING RIVER AT ALLIANCE, OHIO								
Latitude 40°55'58", longitude 81°05'41", Stark County, Hydrologic Unit 05030103, on right bank 15 ft upstream from Webb Avenue bridge in Alliance, 0.2 mi upstream from water works dam, and 4 mi upstream from Beach Creek.	89.2	1941-93 1994-05	01/06/05	5.08	2,640	01/21/59	9.11	9,740
03092090 WEST BRANCH MAHONING RIVER NEAR RAVENNA, OHIO								
Latitude 41°09'41", longitude 81°11'50", Portage County, Hydrologic Unit 05030103, on left bank at downstream side of bridge on Newton Falls Road, 2.5 mi east of Ravenna.	21.8	1965-93≠ 1994-05	08/31/05	5.38	728	07/22/03	10.76	4,810
03102950 PYMATUNING CREEK AT KINSMAN, OHIO								
Latitude 41°26'34", longitude 80°35'18", Trumbull County, Hydrologic Unit 05030102, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi downstream from Sugar Creek, and 1.2 mi upstream from Stratton Creek.	96.7	1966-94≠ 1995-05	01/06/05	11.30	1,670	09/09/04	12.57	3,030
Muskingum River Basin								
03115973 SCHOCALOG RUN AT COPLEY JUNCTION, OHIO								
Latitude 41°06'11", longitude 81°36'12", Summit County, Hydrologic Unit 05040001, on right upstream side of six barrel culvert under the Akron-Canton and Youngstown railroad, 150 ft east of Schocalog Road, 0.25 mi west of Copley Junction, Ohio, 0.3 mi downstream of Schocalog Lake and 0.8 mi southeast of intersection of Interstate 77 and Ridgewood Road.	3.65	1991-04≠ 2005	01/12/05	12.40	104	07/22/03	13.64	275

MEASUREMENTS OF DISCHARGE AT MISCELLANEOUS SITES—Continued

 [mi², square miles; ft, feet; ft³/s, cubic feet per second; ≠, operated as a continuous-record gaging station; --a, insufficient data to determine discharge]

Location	Drainage area (mi ²)	Period of record	Water year 2005 maximum			Period of record maximum			
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)	
Muskingum River Basin—Continued									
3120500 MCGUIRE CREEK BELOW LEESVILLE DAM, NEAR LEESVILLE, OHIO									
Latitude 40°28'13", longitude 81°11'48", Carroll County, Hydrologic Unit 05040001, on left bank at outlet of Leesville Dam, 1.3 mi upstream from mouth, and 1.4 mi northeast of Leesville.	48.3	1938-91≠ 1992-05	01/07/05	5.76	436	03/04/40	7.88	740	
03122500 TUSCARAWAS RIVER BELOW DOVER DAM, NEAR DOVER, OHIO									
Latitude 40°31'47", longitude 81°25'48", Tuscarawas County, Hydrologic Unit 05040001, on left bank at downstream side of bridge on State Highway 416, 2.2 mi downstream from Dover Dam, 1.5 mi east of Dover, and 3.4 mi upstream from Sugar Creek.	1,405	1923-91≠ 1992-05	01/19/05	9.62	7,920	01/26/37	15.51	26,400	
03126000 STILLWATER CREEK AT PIEDMONT, OHIO									
Latitude 40°11'41", longitude 81°12'56", Harrison County, Hydrologic Unit 05040001, on left bank 400 ft downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mi northwest of Piedmont.	122	1938-91≠ 1992-05	01/06/05	11.14	1,250	09/09/04	11.98	1,520	
03127000 STILLWATER CREEK AT TIPPECANOE, OHIO									
Latitude 40°16'13", longitude 81°17'26", Harrison County, Hydrologic Unit 05040001 on left bank downstream side of highway bridge at Tippecanoe, 0.4 mi downstream from Brushy Fork, 3.6 mi upstream from Weaver Run, 6 mi upstream from Laurel Creek, and 9 mi south of Dennison.	282	1938-91≠ 1992-05	01/07/05	16.80	3,850	09/10/04	17.64	4,740	
03131500 BLACK FORK AT LOUDONVILLE, OHIO									
Latitude 40°38'09", longitude 82°14'22", Ashland County, Hydrologic Unit 05040002, on right bank at downstream side of bridge on State Highway 39 at Loudonville, 1.5 mi downstream from Big Run.	349	1931-91≠ 1992-05	01/06/05	10.73	3,180	07/05/69	14.11	8,460	

MEASUREMENTS OF DISCHARGE AT MISCELLANEOUS SITES—Continued

[mi², square miles; ft, feet; ft³/s, cubic feet per second; ≠, operated as a continuous-record gaging station; --a, insufficient data to determine discharge]

Location	Drainage area (mi ²)	Period of record	Water year 2005 maximum			Period of record maximum			
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)	
Muskingum River Basin—Continued									
03133500 CLEAR FORK BELOW PLEASANT HILL DAM, NEAR PERRYVILLE, OHIO									
Latitude 40°37'13", longitude 82°19'28", Ashland County, Hydrologic Unit 05040002, on left bank 0.2 mi downstream from Pleasant Hill Dam, 2.8 mi south of Perrysville, and 4.7 mi upstream from the confluence of Clear Fork and Black Fork.	198	1938-91≠ 1992-05	01/14/05	4.21	1,860	01/23/59	4.89	2,340	
03135000 LAKE FORK BELOW MOHICANVILLE DAM, NEAR MOHICANVILLE, OHIO									
Latitude 40°43'24", longitude 82°09'18", Ashland County, Hydrologic Unit 05040002, on right bank 800 ft downstream from Mohicanville Dam, 2 mi east of Mohicanville, and 2.4 mi downstream from the confluence of Jerome and Muddy Forks.	271	1938-93≠ 1994-05	02/23/05	10.32	1,730	07/05/69	14.32	5,490	
03141500 SENECA FORK BELOW SENECAVILLE DAM, NEAR SENECAVILLE, OHIO									
Latitude 39°55'28", longitude 81°26'17", Guernsey County, Hydrologic Unit 05040005, on left bank 650 ft downstream from Senecaville Dam, and 1.5 mi southeast of Senecaville.	118	1938-91≠ 1992-05	12/04/05	9.10	957	09/17/04	9.88	1,030	
03147500 LICKING RIVER BELOW DILLON DAM, NEAR DILLON FALLS, OHIO									
Latitude 39°59'18", longitude 82°04'50", Muskingum County, Hydrologic Unit 05040006, on left bank 500 ft downstream from Dillon Dam, 2.0 mi northwest of Dillon Falls, and 5.8 mi upstream from mouth.	742	1939-91≠ 1992-05	01/29/05	11.49	7,670	01/22/59	32.46	47,000	
Scioto River Basin									
03230700 SCIOTO RIVER AT CIRCLEVILLE, OHIO									
Latitude 39°36'05", longitude 82°57'19", Pickaway County, Hydrologic Unit 05060002, on right bank 100 ft upstream from U.S. Highway 22 bridge, 1,400 ft downstream from Hargus Creek, and 1.0 mi downstream from Big Darby Creek.	3,217	1974-79≠ 2000-05	01/07/05	23.36	53,500	02/25/75	21.95	61,500	

MEASUREMENTS OF DISCHARGE AT MISCELLANEOUS SITES—Continued

[mi², square miles; ft, feet; ft³/s, cubic feet per second; ≠, operated as a continuous-record gaging station; --a, insufficient data to determine discharge]

Location	Drainage area (mi ²)	Period of record	Water year 2005 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
Scioto River Basin—Continued								
03230900 DEER CREEK NEAR PANCOASTBURG, OHIO								
Latitude 39°37'14", longitude 83°12'47", Pickaway County, Hydrologic Unit 05060002, on left bank 200 ft downstream from bridge on Crownover Mill Road, 1,200 ft downstream from Deer Creek Dam, and 2.8 mi east of Pancoastburg.	277	1964-66 1966-97≠ 1998-05	01/17/05	6.92	2,920	03/10/64	12.93	19,500
03234000 PAINT CREEK NEAR BOURNEVILLE, OHIO								
Latitude 39°15'49", longitude 83°10'01", Ross County, Hydrologic Unit 05060001, on upstream side of left abutment of highway bridge, 0.2 mi downstream from Sulfer Lick, 1.2 mi southwest of Bourneville.	807	1921-37 1938-98≠ 1999-05	03/28/05	12.05	9,680	03/10/64	20.50	56,900
Mill Creek Basin								
03255050 MILL CREEK AT TYLERSVILLE ROAD NEAR FAIRFIELD, OHIO								
Latitude 39°41'44", longitude 84°29'47", Butler County, Hydrologic Unit 05090203, on right upstream bank, at bridge on Tylersville Road, 0.4 mi west of State Route 4, 6.6 mi upstream of East Fork Mill Creek, and 3.0 mi west of Hamilton, Ohio.	5.28	2005	03/28/05	8.00	--a	03/28/05	8.00	--a
03255180 MILL CREEK AT MULHAUSER ROAD NEAR WEST CHESTER, OHIO								
Latitude 39°18'56", longitude 84°26'21", Butler County, Hydrologic Unit 05090203, on left downstream bank, at bridge on Mulhauser Road, 0.4 mi west of Allen Road, 2.0 mi upstream of East Fork Mill Creek and 1.9 mi southwest of West Chester, Ohio.	25.4	2005	01/05/05	12.51	1,150	01/05/05	12.51	1,150
03255270 EAST FORK MILL CREEK AT UNION CENTER ROAD NEAR WEST CHESTER, OHIO								
Latitude 39°17'14", longitude 84°25'08", Butler County, Hydrologic Unit 05090203, on right upstream bank at bridge on Union-Center Road, 0.4 mi west of Cincinnati-Dayton Road, 2.6 mi upstream of the mouth, and 0.8 mi southwest at West Chester, Ohio.	5.43	2005	03/28/05	6.75	--a	03/28/05	6.75	--a

MEASUREMENTS OF DISCHARGE AT MISCELLANEOUS SITES—Continued

[mi², square miles; ft, feet; ft³/s, cubic feet per second; ≠, operated as a continuous-record gaging station; --a, insufficient data to determine discharge]

Location	Drainage area (mi ²)	Period of record	Water year 2005 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
Mill Creek Basin—Continued								
03255390 SHARON CREEK AT SHARONVILLE, OHIO								
Latitude 39°16'24", longitude 84°24'40", Hamilton County, Hydrologic Unit 05090203, on left bank upstream of bridge on Reading Road at Sharonville Fire Station at Carnell Road, 1.3 mi upstream of the mouth at Sharonville, Ohio.	5.39	2005	03/28/05	6.93	670	03/28/05	6.93	670
03255500 MILL CREEK AT READING, OHIO								
Latitude 39°13'15", longitude 84°26'58", Hamilton County, Hydrologic Unit 05090203, on right bank at upstream side of Koehler Street Bridge at Reading, 1.0 mi upstream from West Fork Mill Creek, and 13.0 mi upstream from mouth.	73.0	1939-91≠ 2005	03/28/05	15.08	3,900	03/06/45	20.00	5,780
03259000 MILL CREEK AT CARTHAGE, OHIO								
Latitude 39°12'07", longitude 84°28'06", Hamilton County, Hydrologic Unit 05090203, on right bank at Anthony Wayne Avenue bridge in Carthage, Ohio, 1 mi downstream from West Fork Mill Creek and 11 mi upstream from mouth.	115	1946-02≠ 2003-05	03/28/05	15.44	5,040	09/14/79	21.82	9,030
391029084344600 SHEPHERD CREEK NEAR MOUNT AIRY, OHIO								
Latitude 39°12'29", longitude 84°34'46", Hamilton County, Hydrologic Unit 05090203, crest-stage-only site consisting of four crest-stage gages located 400 ft downstream from Blue Spruce Road along Shepherd Creek Road.	0.70	2005	06/10/05	11.68	50	06/10/05	11.68	50
Great Miami River Basin								
03271500 GREAT MIAMI RIVER AT MIAMISBURG, OHIO								
Latitude 39°38'40", longitude 84°17'32", Montgomery County, Hydrologic Unit 05080002, on left bank 600 ft downstream from bridge on U.S. Highway 725, at Miamisburg, 0.3 mi downstream from Bear Creek, 3.2 mi upstream from Craine Run and at mile 66.4.	2,711	1916-20≠ 1924-35≠ 1952-95≠ 1996-05	01/07/05	18.15	49,800	01/21/59	21.30	61,800

Peak Discharge and Stage at Continuous-Record Surface Discharge Stations

For continuous-record surface-water-discharge stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented in this table. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. The peaks are listed in chronological order. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by human intervention. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
BEAVER RIVER BASIN							
		03093000		Eagle Creek at Phalanx Station, Ohio			
				(Base discharge: 1,300 ft ³ /s)			
Jan. 1	0900	2,060	11.75	Jan. 13	0500	*2,640	*12.35
Jan. 4	1700	2,220	11.96	Feb. 9	1200	1,480	10.84
Jan. 7	0700	2,220	11.96	Apr. 3	0700	2,140	11.85
LITTLE BEAVER CREEK BASIN							
		03109500		Little Beaver Creek near East Liverpool, Ohio			
				(Base discharge: 5,000 ft ³ /s)			
Jan. 6	1300	*11,800	*12.42	Apr. 2	1600	5,500	9.07
Jan. 12	1300	7,440	10.25				
YELLOW CREEK BASIN							
		03110000		Yellow Creek near Hammondsville, Ohio			
				(Base discharge: 2,000 ft ³ /s)			
Dec. 1	1600	2,020	6.02	Jan. 12	1400	2,360	6.46
Jan. 6	1500	*6,120	*10.02	Apr. 2	1800	2,580	6.71
SHORT CREEK BASIN							
		03111500		Short Creek near Dillonvale, Ohio			
				(Base discharge: 1,200 ft ³ /s)			
Dec. 1	1030	1,930	6.46	Jan. 14	0730	1,550	5.83
Jan. 6	0500	*4,780	*10.04	Mar. 29	0030	1,610	5.93
Jan. 12	0500	2,450	7.23	Apr. 2	1130	2,580	7.40
WHEELING CREEK BASIN							
		03111548		Wheeling Creek below Blaine, Ohio			
				(Base discharge: 1,500 ft ³ /s)			
Dec. 1	0700	1,770	5.58	Jan. 12	0200	2,500	6.62
Jan. 6	0800	*3,960	*8.45	Apr. 2	0800	2,020	5.95
CAPTINA CREEK BASIN							
		03113990		Captina Creek at State Route 148 at Armstrongs Mills, Ohio			
				(Base discharge: 3,000 ft ³ /s)			
Dec. 1	0900	3,500	7.86	Jan 12	--	e3,770	--
Jan. 4	0330	4,140	8.42	Jan. 14	0630	3,050	7.43
Jan. 6	1000	*6,790	*10.63	Apr. 2	0830	4,770	8.95

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
LITTLE MUSKINGUM RIVER BASIN							
03115400 Little Muskingum River at Bloomfield, Ohio							
(Base discharge: 3,000 ft ³ /s)							
Dec. 1	1600	3,920	16.12	Feb. 15	0100	3,510	15.24
Jan. 5	2300	10,300	24.02	Mar. 29	0330	5,540	19.01
Jan. 8	1700	3,130	14.33	Apr. 2	1800	7,520	21.57
Jan. 12	0600	*12,800	*25.71				
MUSKINGUM RIVER BASIN							
03117500 Sandy Creek at Waynesburg, Ohio							
(Base discharge: 1,800 ft ³ /s)							
Dec. 1	2000	1,820	4.93	Jan. 7	0200	*5,700	*8.44
Dec. 24	0200	2,620	6.23	Jan. 13	0400	3,770	7.45
Jan. 4	1300	2,220	5.62	Apr. 3	0700	2,080	5.39
03118000 Middle Branch Nimishillen Creek at Canton, Ohio							
(Base discharge: 400 ft ³ /s)							
Dec. 24	1300	400	4.56	Jan. 13	0030	563	5.35
Jan. 4	1100	476	4.98	Apr. 3	0400	458	4.88
Jan. 6	1930	*672	*5.71	Aug. 31	1630	491	5.05
Jan. 8	2200	409	4.61				
031118500 Nimishillen Creek at North Industry, Ohio							
(Base discharge; 2,000 ft ³ /s)							
Dec. 23	1635	2,990	7.32	Jan. 12	1335	*4,200	*8.88
Jan. 4	0135	3,010	7.34	Apr. 2	1435	2,930	7.24
Jan. 6	1135	4,170	8.84	July 27	0035	2,780	7.04
Jan. 8	1335	2,360	6.64	Aug. 31	0235	3,320	7.75
03121850 Huff Run at Mineral City, Ohio							
(Base discharge: 100 ft ³ /s)							
Dec. 1	1045	159	3.09	Jan. 16	Unknown	--	*19.94
Dec. 23	1715	570	4.19	Apr. 12	1430	295	3.56
Jan. 4	0300	148	3.04	Aug. 31	0515	114	2.87
Jan. 6	0500	*e700	Unknown				
03139000 Killbuck Creek at Killbuck, Ohio							
(Base discharge: 2,000 ft ³ /s)							
Jan. 6	1700	*10,500	*18.17	Apr. 5	2100	2,140	15.43
Jan. 13	0000	6,960	17.42				
03140000 Mill Creek near Coshocton, Ohio							
(Base discharge: 700 ft ³ /s)							
Dec. 23	1130	1,110	10.02	Jan. 12	0715	1,450	10.68
Jan. 6	0100	*1,640	*11.00				

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
MUSKINGUM RIVER BASIN—Continued							
03141870 Leatherwood Creek near Kipling, Ohio							
(Base discharge: 950 ft ³ /s)							
Dec. 1	1530	959	10.89	Jan. 12	0400	*4,050	*14.73
Dec. 23	2100	1,060	11.18	Jan. 14	1030	1,260	11.68
Jan. 4	0900	1,310	11.81	Apr. 2	2000	1,230	11.61
Jan. 6	1630	2,720	13.75				
03144000 Wakatomika Creek near Frazeyburg, Ohio							
(Base discharge: 1,600 ft ³ /s)							
Dec. 23	2100	2,120	5.51	Jan. 12	1700	5,740	9.17
Jan. 6	1100	*9,930	*11.53	Apr. 3	0300	1,700	4.94
03146500 Licking River near Newark, Ohio							
(Base discharge: 6,500 ft ³ /s)							
Jan. 6	1300	*23,100	*15.83	Mar. 28	1900	7,320	10.05
Jan. 12	0700	18,500	14.48	Apr. 3	0100	6,680	9.70
03149500 Salt Creek near Chandlersville, Ohio							
(Base discharge: 1,500 ft ³ /s)							
Dec. 23	1230	3,020	14.85	Mar. 28	2115	1,840	12.15
Jan. 5	--	e5,500	Unknown	Apr. 2	0915	1,840	12.16
Jan. 12	0200	*5,620	*18.49				
HOCKING RIVER BASIN							
03157000 Clear Creek near Rockbridge, Ohio							
(Base discharge: 1,900 ft ³ /s)							
Mar. 28	1130	*2,170	*7.27				
03157500 Hocking River at Enterprise, Ohio							
(Base discharge: 3,500 ft ³ /s)							
Dec. 23	2000	5,570	11.67	Mar. 29	0000	6,000	12.14
Jan. 6	1700	*15,200	*18.15	Apr. 3	0300	4,690	10.53
Jan. 12	0900	8,570	14.72	Apr. 24	0300	4,060	9.56
03158200 Monday Creek at Doanville, Ohio							
(Base discharge: 600 ft ³ /s)							
Nov. 20	0315	743	9.15	Jan. 6	1800	*4,250	*19.06
Nov. 25	1645	688	8.84	Jan. 12	1800	2,980	17.29
Dec. 1	2115	1,090	11.10	Mar. 29	1230	2,040	15.23
Dec. 10	1045	697	8.89	Apr. 3	0915	1,530	13.49
Dec. 24	1245	1,440	13.08	Apr. 24	1630	1,430	13.05
SHADE RIVER BASIN							
03159540 Shade River near Chester, Ohio							
(Base discharge: 2,400 ft ³ /s)							
Jan. 8	2100	2,850	16.83	Apr. 2	2300	2,780	16.60
Mar. 29	1630	*3,050	*17.46				

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
RACCOON CREEK BASIN							
03201902 Raccoon Creek near Bolins Mills, Ohio							
(Base discharge: 1,500 ft ³ /s)							
Dec. 2	1300	1,520	12.18	Mar. 30	1030	2,390	14.54
Jan. 7	1330	*3,550	*16.00	Apr. 3	1400	1,790	13.29
Jan. 14	0100	2,160	13.91	Apr. 25	2030	1,860	13.23
03201980 Little Raccoon Creek at Ewingtown, Ohio							
(Base discharge: 860 ft ³ /s)							
Jan. 6	1700	*1,530	*12.16	Apr. 3	1530	1,050	11.06
Mar. 29	2115	1,410	11.89				
03202000 Raccoon Creek near Adamsville, Ohio							
(Base discharge: 3,000 ft ³ /s)							
Jan. 10	0200	*6,560	*19.62	Apr. 2	1500	4,560	16.21
Jan. 16	1500	3,360	13.80	Apr. 27	0900	3,480	14.04
SYMMES CREEK BASIN							
03205470 Symmes Creek at Aid, Ohio							
(Base discharge: 2,900 ft ³ /s)							
Jan. 8	2130	*3,190	*17.97				
SCIOTO RIVER BASIN							
03219500 Scioto River near Prospect, Ohio							
(Base discharge: 3,600 ft ³ /s)							
Jan. 6	0900	*8,310	*14.18	Feb. 10	2000	4,090	9.53
Jan. 14	1100	8,020	13.90	Apr. 27	0100	4,400	9.92
03220000 Mill Creek near Bellepoint, Ohio							
(Base Discharge: 2,500 Ft ³ /s)							
Jan. 6	0900	*5,440	*8.96	Apr. 3	0300	3,370	7.35
Jan. 13	0000	3,760	7.69	Apr. 24	0600	2,580	6.59
03223425 Whetstone Creek at Mt. Gilead, Ohio							
(Base discharge: 615 ft ³ /s)							
Dec. 31	1750	1,570	8.30	Feb. 8	1035	870	6.84
Jan. 6	0350	1,560	8.27	Apr. 3	2250	911	6.94
Jan. 12	0850	*1,730	*8.60	Aug. 31	1005	858	6.81
03228300 Big Walnut Creek at Sunbury, Ohio							
(Base discharge: 2,200 ft ³ /s)							
Dec. 31	--	Unknown	Unknown	Jan. 6	--	Unknown	Unknown
Jan. 3	--	Unknown	Unknown	Jan. 12	0930	*6,320	*11.24

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
SCIOTO RIVER BASIN—Continued							
03228750 Alum Creek near Kilbourne, Ohio							
(Base discharge: 1000 ft ³ /s)							
Dec. 31	0700	(Ice jam)	*11.01	Feb. 8	0700	1,390	6.73
Jan. 5	2300	3,900	9.94	Mar. 28	1100	1,660	7.18
Jan. 12	0800	*4,570	10.60	Apr. 3	0100	1,230	6.44
03230310 Little Darby Creek at West Jefferson, Ohio							
(Base discharge: 1000 ft ³ /s)							
Jan. 1	1100	1,770	10.43	Mar. 29	0700	1,710	10.01
Jan. 6	1300	*6,560	*15.67	Apr. 3	1400	1,270	9.19
Jan. 12	1400	4,640	13.79	Apr. 24	0900	2,210	10.82
Feb. 9	0400	1,150	8.95	May 21	0100	1,210	9.08
03230450 Hellbranch Run near Harrisburg, Ohio							
(Base discharge: 300 ft ³ /s)							
Dec. 31	1900	716	7.17	Feb. 8	0945	319	6.34
Jan. 4	0030	1,060	7.96	Mar. 28	1630	891	7.54
Jan. 6	0800	*1,700	*9.85	Apr. 2	2015	521	6.81
Jan. 12	1030	1,360	8.85	Apr. 23	2015	546	6.86
Jan. 14	0400	671	7.09	May 20	0615	338	6.39
03230500 Big Darby Creek at Darbyville, Ohio							
(Base discharge: 4,500 ft ³ /s)							
Jan. 2	0700	6,490	9.95	Mar. 29	0600	6,170	9.73
Jan. 7	0300	*21,300	*15.63	Apr. 3	2200	5,230	9.04
Jan. 13	0600	14,100	13.41	Apr. 24	2100	7,070	10.34
03230800 Deer Creek at Mount Sterling, Ohio							
(Base discharge: 1,900 ft ³ /s)							
Jan. 1	0600	3,390	9.21	Apr. 3	0400	2,590	8.39
Jan. 6	1300	*11,100	*12.58	Apr. 24	0000	3,020	8.78
Jan. 12	1200	8,090	11.44	June 9	0900	2,200	8.20
Mar. 28	2200	6,560	10.77				
03232000 Paint Creek near Greenfield, Ohio							
(Base discharge: 2,000 ft ³ /s)							
Jan. 1	2200	3,630	8.18	Mar. 29	1500	6,140	10.24
Jan. 6	1000	*12,600	*12.55	Apr. 2	1900	2,590	7.14
Jan. 11	2200	5,500	9.83	Apr. 24	2000	2,790	7.36
Feb. 9	1400	2,290	6.72				
UPPER TWIN CREEK BASIN							
03237280 Upper Twin Creek at McGaw, Ohio							
(Base discharge: 450 ft ³ /s)							
Jan. 3	1645	*913	*6.17	Apr. 2	0145	561	5.41
Jan. 5	1315	691	5.71				

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
OHIO BRUSH CREEK BASIN							
03237500 Ohio Brush Creek near West Union, Ohio							
(Base discharge: 11,000 ft ³ /s)							
Jan. 3	2300	15,700	16.69	Mar. 28	1515	12,100	15.09
Jan. 6	1515	*18,800	*17.94				
WHITE OAK CREEK BASIN							
03238500 White Oak Creek near Georgetown, Ohio							
(Base discharge: 5,500 ft ³ /s)							
Oct. 19	0500	6,170	6.56	Jan. 14	0600	5,520	6.34
Nov. 19	2300	6,890	6.80	Mar. 28	2100	*10,900	*7.92
Dec. 1	0900	5,700	6.40	Apr. 23	2100	6,400	6.64
Jan. 6	0600	9,210	7.49				
LITTLE MIAMI RIVER BASIN							
03240000 Little Miami River near Oldtown, Ohio							
(Base discharge: 800 ft ³ /s)							
Dec. 31	1200	1,090	5.17	Mar. 29	0000	2,150	7.09
Jan. 6	0900	*4,700	*9.92	Apr. 24	0430	1,200	5.42
Jan. 12	1530	3,250	8.58				
03241500 Massies Creek at Wilberforce, Ohio							
(Base discharge: 600 ft ³ /s)							
Jan. 1	0930	810	5.84	Jan. 11	2230	1,120	6.69
Jan. 6	0700	*2,210	*9.00	Mar. 28	2330	1,250	7.01
03245500 Little Miami River at Milford, Ohio							
(Base discharge: 15,000 ft ³ /s)							
Jan. 6	0830	*31,400	*19.10	Mar. 28	1500	29,100	18.39
Jan. 12	0100	17,300	14.16				
GREAT MIAMI RIVER BASIN							
03260706 Bokengehalas at DeGraff, Ohio							
(Base discharge: 350 ft ³ /s)							
Dec. 31	2200	527	4.87	Jan. 12	2115	*1,370	*7.95
Jan. 6	0615	867	6.54	Apr. 23	1900	444	4.31
03261500 Great Miami River at Sidney, Ohio							
(Base discharge: 4,000 ft ³ /s)							
Jan. 6	0800	*e12,400	*e14.20	Apr. 23	2130	4,200	7.81
Jan. 12	--	Unknown	Unknown	Sept. 25	0300	4,050	7.66
Feb. 8	2015	4,960	8.58				

PEAK DISCHARGES EQUAL TO OR GREATER THAN BASE DISCHARGES, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[ft³/s, cubic feet per second; ft, feet; *, maximum peak discharge and gage height; --, no data; e, estimated]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
GREAT MIAMI RIVER BASIN—Continued							
03261950 Loramie Creek near Newport, Ohio (Base discharge: 1,500 ft ³ /s)							
Jan. 1	0645	2,340	11.62	Feb. 8	2345	1,730	10.57
Jan. 6	1245	4,420	13.80	Sept. 26	2315	2,090	11.25
Jan. 12	2015	*4,640	*13.98				
03264000 Greenville Creek near Bradford, Ohio (Base discharge: 1,500 ft ³ /s)							
Jan. 1	0700	2,330	5.91	Feb. 8	1515	1,660	4.91
Jan. 6	0630	*5,870	*9.84	Apr. 24	0630	2,020	5.47
Jan. 12	2345	3,690	7.61				
03265000 Stillwater River at Pleasant Hill, Ohio (Base discharge: 5,000 ft ³ /s)							
Dec. 31	2130	8,040	10.86	Feb. 8	1145	5,780	8.78
Jan. 6	0830	*18,700	*17.22	Apr. 24	0000	6,680	9.63
Jan. 12	1915	13,100	14.43				
03267000 Mad River near Urbana, Ohio (Base discharge: 1,400 ft ³ /s)							
Jan. 6	0445	*4,100	*8.90	Jan. 12	1000	3,350	8.12
03267900 Mad River at St. Paris Pike at Eagle City, Ohio (Base discharge: 2,500 ft ³ /s)							
Dec. 31	1715	2,680	10.55	Jan. 12	0145	*8,690	16.82
Jan. 5	2245	8,680	*16.95	Apr. 23	1615	3,110	10.88
03271000 Wolf Creek at Dayton, Ohio (Base discharge: 1,400 ft ³ /s)							
Dec. 31	1100	1,540	5.23	Jan. 11	2245	4,020	7.70
Jan. 5	2215	*4,180	*7.86				
03272700 Sevenmile Creek at Camden, Ohio (Base discharge: 1,500 ft ³ /s)							
Jan. 5	2245	*4,180	*10.59	Mar. 28	0930	1,980	7.82
Jan. 11	2145	2,270	8.25	July 1	0215	2,970	9.19

Ground-Water Records—Ashland County

405303082170700. Local Number, AS-2

LOCATION.—Latitude 40°53'03", longitude 82°17'07", Ashland County, Hydrologic Unit 05040002, 2 mi northeast of Ashland, Ohio. Owner: City of Ashland.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 64 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 980 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

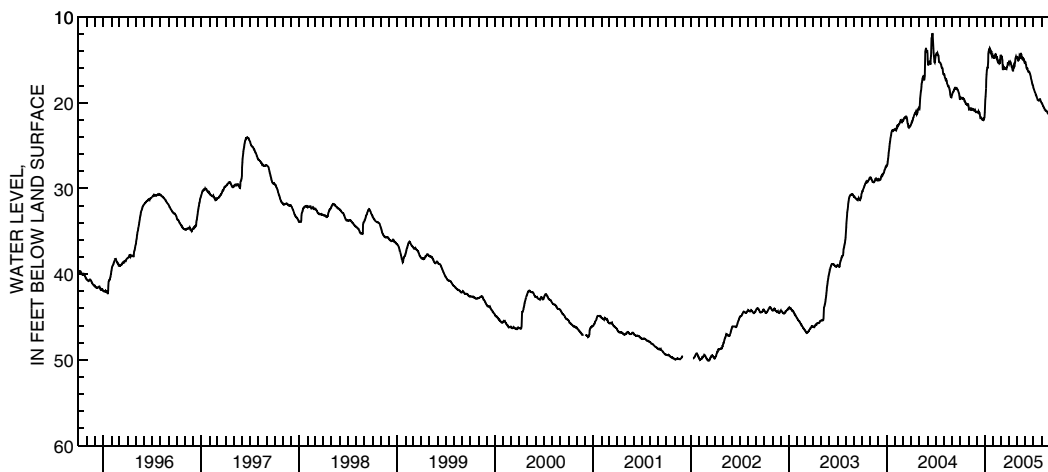
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 50.12 ft below land-surface datum, Mar. 6 and 7, 2002; minimum daily low, 11.56 ft below land-surface datum, Jan. 1, 1991.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.58	20.36	21.04	21.13	14.71	14.40	15.45	14.70	15.22	18.16	20.01	21.59
2	19.50	20.60	21.10	20.12	14.74	14.52	15.22	14.69	15.30	18.36	20.06	21.66
3	19.50	20.79	21.10	19.67	14.72	14.57	15.23	14.72	15.51	18.44	20.12	21.73
4	19.41	20.76	21.10	19.26	14.79	14.57	15.25	15.01	15.59	18.51	20.20	21.78
5	19.47	20.72	21.12	18.30	14.79	14.70	15.19	15.10	15.89	18.62	20.31	21.82
6	19.47	20.72	21.11	17.34	14.70	14.70	15.22	15.11	15.98	18.74	20.38	21.84
7	19.49	20.72	21.01	16.71	14.52	15.05	15.29	15.05	16.04	18.81	20.46	21.84
8	19.47	20.81	21.20	16.21	14.38	15.92	15.49	14.94	16.02	18.91	20.53	21.84
9	19.45	20.83	21.21	16.11	14.38	16.17	15.58	14.86	16.07	18.99	20.59	21.90
10	19.55	20.80	21.09	15.92	14.34	16.08	15.70	14.54	16.28	19.08	20.65	21.96
11	19.58	20.67	21.15	15.92	14.38	15.76	15.81	14.61	16.38	19.15	20.73	22.03
12	19.58	20.69	21.18	15.78	14.55	15.81	15.81	14.79	16.39	19.24	20.76	22.06
13	19.52	20.79	21.36	15.23	14.71	16.00	16.00	14.79	16.37	19.33	20.82	22.10
14	19.55	20.82	21.66	14.28	14.64	16.02	16.17	14.39	16.34	19.44	20.86	22.16
15	19.58	20.80	21.75	14.05	14.66	16.02	16.25	14.20	16.36	19.51	20.90	22.25
16	19.69	20.72	21.74	13.85	14.87	16.00	16.24	14.34	16.45	19.61	20.89	22.30
17	19.82	20.72	21.74	13.69	15.02	15.88	16.06	14.39	16.50	19.67	20.92	22.35
18	19.84	20.77	21.74	13.80	15.24	16.05	15.81	14.58	16.62	19.69	20.93	22.39
19	19.86	20.79	21.84	13.64	15.33	16.06	15.62	14.68	16.72	19.74	20.96	22.42
20	19.96	20.83	21.88	13.68	15.33	16.04	15.66	14.86	16.83	19.75	21.01	22.51
21	20.07	20.91	21.87	13.91	14.99	16.08	15.77	14.91	16.96	19.69	21.06	22.56
22	20.11	20.91	21.94	13.90	15.21	16.09	15.73	14.86	17.16	19.65	21.11	22.56
23	20.11	20.85	21.95	14.22	15.35	15.96	15.35	14.67	17.27	19.70	21.17	22.66
24	20.12	20.82	21.99	14.22	15.35	15.82	15.21	14.85	17.37	19.68	21.24	22.70
25	20.20	20.93	21.99	13.97	15.42	15.80	14.91	14.94	17.52	19.60	21.28	22.71
26	20.24	20.99	21.95	14.19	15.40	15.67	14.76	14.94	17.68	19.60	21.29	22.71
27	20.24	20.99	22.01	14.57	15.36	15.57	14.63	15.17	17.80	19.72	21.33	22.75
28	20.27	21.01	21.99	14.63	14.78	15.27	14.69	15.25	17.89	19.82	21.41	22.76
29	20.21	21.06	21.82	14.55	---	15.39	14.68	15.32	17.99	19.87	21.45	22.80
30	20.10	21.04	21.80	14.47	---	15.39	14.66	15.30	18.07	19.95	21.45	22.87
31	20.19	---	21.74	14.59	---	15.35	---	15.20	---	19.98	21.51	---
MAX	20.27	21.06	22.01	21.13	15.42	16.17	16.25	15.32	18.07	19.98	21.51	22.87
CAL YR 2004	LOW	27.43										
WTR YR 2005	LOW	22.87										



405425082173000. Local Number, AS-3

LOCATION.—Latitude 40°54'25", longitude 82°17'30", Ashland County, Hydrologic Unit 05040002, along Jerome Fork near Ashland, Ohio.

Owner: City of Ashland.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 78 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 990 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

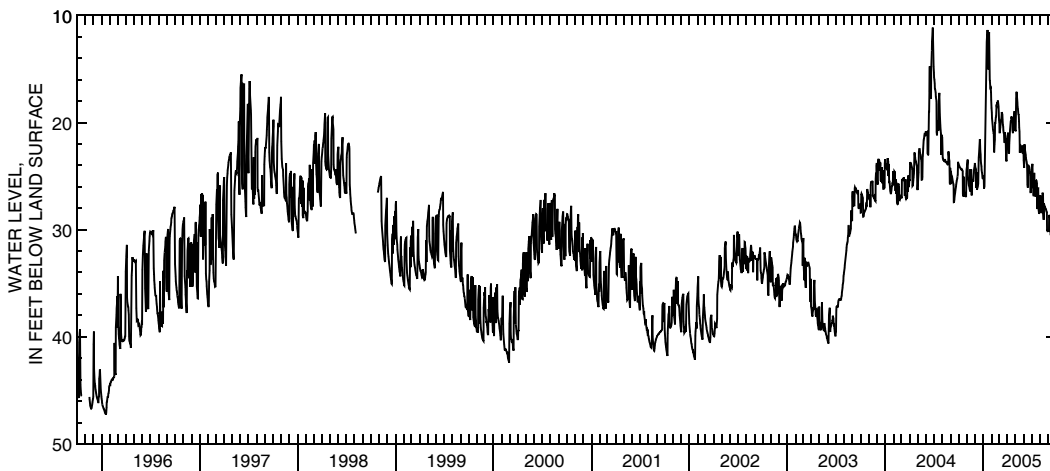
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 47.29 ft below land-surface datum, Jan. 17, 1996; minimum daily low, 5.14 ft below land-surface, Dec. 24, 1974.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.86	24.18	23.77	25.11	18.64	19.78	21.55	20.76	23.52	24.12	28.25	30.11
2	24.01	23.93	24.05	24.95	19.05	20.03	21.17	20.76	24.08	24.20	26.80	30.10
3	24.02	23.78	24.17	24.92	19.58	20.92	21.12	18.81	24.24	23.89	28.06	30.11
4	24.10	23.45	24.29	26.17	20.04	20.92	20.96	17.72	22.03	23.86	27.04	28.64
5	24.14	24.93	24.39	25.96	20.39	20.59	22.11	17.18	22.38	25.62	28.35	28.76
6	24.20	25.36	26.11	23.48	20.65	20.45	22.89	17.13	22.64	26.27	28.38	28.86
7	24.24	25.66	24.66	22.16	20.81	19.92	22.77	17.73	22.85	26.73	28.29	28.94
8	24.25	25.86	26.28	20.57	20.99	19.73	21.95	18.14	23.04	26.89	28.13	29.03
9	24.32	25.99	26.25	19.32	20.99	19.68	21.42	18.55	23.32	25.21	28.01	30.43
10	24.38	26.07	26.09	17.71	22.79	19.40	20.95	18.71	23.48	24.71	26.55	30.44
11	24.40	26.20	25.97	16.56	22.73	19.02	20.64	19.07	23.64	26.04	26.70	30.40
12	24.41	26.36	25.91	15.22	22.01	19.14	20.25	19.25	23.78	26.18	26.85	30.41
13	24.38	26.44	25.71	13.33	21.61	19.27	19.90	19.28	23.89	26.53	28.59	30.49
14	24.42	24.35	23.83	12.48	20.06	19.69	19.90	19.88	25.16	26.86	29.08	30.84
15	24.48	25.77	23.29	11.92	20.06	20.22	19.78	20.45	25.78	26.85	27.55	31.17
16	24.56	25.94	22.89	11.92	19.67	20.39	19.43	20.85	26.07	25.37	27.68	31.26
17	26.67	24.39	22.64	11.36	19.52	20.71	19.62	22.81	24.30	25.45	27.77	29.48
18	26.85	26.33	22.07	13.51	19.38	20.97	19.64	22.03	24.12	25.44	27.80	29.07
19	26.86	26.81	21.56	14.22	18.51	21.01	20.14	22.11	24.07	25.52	27.86	28.68
20	25.06	25.37	21.74	14.79	18.52	21.36	20.70	22.40	24.09	25.67	27.96	28.28
21	26.32	25.43	22.64	15.06	18.20	21.89	20.93	22.47	24.21	27.87	28.04	30.11
22	26.51	25.43	22.97	12.01	18.19	21.84	20.93	22.40	24.43	28.08	28.07	30.66
23	26.56	25.43	23.53	11.56	18.18	20.93	20.62	22.58	24.58	26.38	28.14	31.02
24	26.72	25.43	23.86	13.70	18.02	21.34	20.25	22.69	24.75	26.17	28.24	31.14
25	26.83	25.51	24.09	16.04	17.94	21.66	19.82	22.74	24.90	26.16	28.31	29.34
26	26.87	25.14	24.41	16.09	18.20	21.88	19.46	22.68	26.51	28.10	28.38	29.19
27	26.90	24.71	24.66	16.65	18.51	23.37	19.09	22.14	26.51	28.21	30.08	30.56
28	26.90	24.35	24.83	16.77	18.89	23.52	18.93	22.42	26.40	28.53	30.16	29.35
29	26.88	24.21	25.08	16.74	---	23.63	20.53	22.63	25.88	28.47	30.16	29.55
30	24.79	24.00	25.24	17.18	---	21.68	20.72	22.73	26.10	28.43	30.12	29.70
31	24.41	---	25.28	17.89	---	21.56	---	22.85	---	26.78	30.11	---
MAX	26.90	26.81	26.28	26.17	22.79	23.63	22.89	22.85	26.51	28.53	30.16	31.26
CAL YR 2004		LOW	27.63									
WTR YR 2005		LOW	31.26									



Ground-Water Records—Athens County**392004082071600. Local Number, AT-2A**

LOCATION.—Latitude 39°20'04", longitude 82°07'16", Athens County, Hydrologic Unit 05030204, 1.1 mi west of city hall in Athens, Ohio. Owner: City of Athens.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

INSTRUMENTATION.—Periodic measurement with chalked tape by Ohio Department of Natural Resources personnel.

DATUM.—Elevation of land-surface datum is 641.81 ft above sea level. Measuring point: Floor of instrument shelter, 2.37 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. Prior to water year 1978, well depth reported as 43 ft.

PERIOD OF RECORD.—October 1966 to September 1982 continuous, periodic thereafter. This well replaced At-2, which has continuous record from March 1954 to September 1966.

EXTREMES FOR PERIOD OF RECORD.—Maximum measured low, 21.52 ft below land-surface datum, Oct. 15, 1993; minimum daily low, 1.05 ft below land-surface datum, May 25, 28, 1968.

WATER LEVEL,
IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
Oct. 15, 2004	17.59
Apr. 12, 2005	15.51
July 12, 2005	18.54

392009082072200. Local Number, AT-5

LOCATION.—Latitude 39°20'09", longitude 82°07'22", Athens County, Hydrologic Unit 05030204, along Hocking River in Athens, Ohio. Owner: City of Athens.
 AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land surface datum is 640 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter, 4.75 ft above land-surface datum.

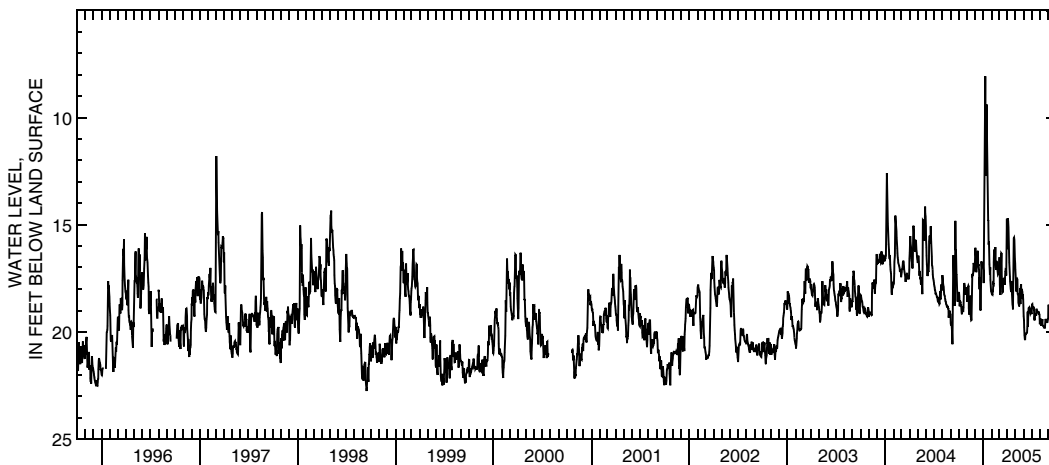
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—July 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 24.06 ft below land-surface datum, Aug. 12, 13, 1993; minimum daily low 8.07 ft below land-surface datum, Jan. 8, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.36	17.95	16.86	17.01	18.16	16.78	16.14	17.09	19.27	19.18	19.53	18.84
2	18.15	18.60	16.26	17.11	18.11	16.52	16.11	17.41	19.45	18.72	19.36	18.74
3	18.18	18.09	16.08	17.73	18.25	16.63	14.71	17.70	19.79	18.71	19.56	18.83
4	18.33	18.05	16.34	17.22	18.27	17.80	14.83	17.96	20.15	18.80	19.64	18.95
5	18.81	17.94	16.52	16.14	18.05	18.24	15.12	18.13	20.33	18.88	19.72	19.05
6	18.54	17.85	17.22	15.72	18.15	18.27	15.72	17.57	20.39	18.90	19.58	19.14
7	18.63	17.90	16.89	10.77	17.75	17.36	16.33	17.53	20.08	18.83	19.44	19.45
8	18.59	18.90	16.85	8.07	17.77	16.87	16.77	17.57	20.11	18.92	19.52	19.58
9	18.75	19.13	16.79	10.08	16.75	16.33	17.14	18.19	20.11	18.98	19.41	19.36
10	18.75	19.20	16.74	12.15	16.20	16.35	17.41	18.28	20.06	19.36	19.70	19.40
11	18.87	18.48	16.25	12.71	16.20	17.41	17.65	18.22	20.06	19.47	19.71	19.41
12	19.08	18.47	16.22	10.98	16.41	17.68	17.83	18.67	20.06	19.28	19.72	19.44
13	19.19	18.31	16.94	9.39	16.50	17.88	18.00	18.71	20.05	19.20	19.74	19.98
14	18.83	18.78	16.85	9.95	16.66	18.15	18.06	18.79	19.75	19.19	19.77	20.09
15	18.86	19.32	17.01	10.65	16.05	18.13	18.15	18.79	19.11	19.17	19.79	19.67
16	19.04	19.29	17.09	12.23	16.89	17.50	17.66	18.65	19.06	19.17	19.81	19.80
17	19.00	19.47	17.65	13.07	17.02	17.55	17.63	18.49	19.76	19.26	19.81	19.98
18	19.08	19.45	18.02	13.64	17.10	17.59	18.25	17.96	19.06	18.93	19.81	19.90
19	18.87	18.59	17.45	14.81	16.69	17.65	18.56	18.56	18.92	18.95	19.81	20.03
20	18.61	17.81	18.21	14.79	16.78	17.47	18.72	18.71	18.88	18.99	19.56	20.06
21	17.91	17.30	18.95	15.93	16.84	17.53	18.83	17.89	18.88	19.05	19.40	19.81
22	17.73	17.39	19.00	15.78	17.04	17.80	18.95	17.78	18.92	19.05	19.43	20.07
23	17.78	17.37	18.15	16.00	17.11	17.56	18.05	18.35	18.90	19.06	19.44	20.19
24	17.85	17.30	17.25	16.84	17.25	17.25	16.93	18.38	18.95	19.11	19.47	20.00
25	17.95	17.13	16.71	17.17	17.32	17.16	15.62	18.00	19.10	19.15	19.53	19.75
26	18.02	16.79	16.77	17.35	17.29	17.19	15.59	18.08	19.15	19.13	19.55	19.44
27	18.27	16.86	16.98	16.99	17.29	17.14	15.71	18.14	19.11	19.06	19.55	19.35
28	18.18	16.95	16.94	17.58	17.29	17.38	16.09	18.45	19.09	19.14	19.55	19.29
29	17.93	17.10	16.75	17.83	---	16.09	16.58	18.25	19.13	19.17	19.53	19.32
30	18.00	17.07	16.81	18.07	---	14.73	16.82	18.49	19.15	19.20	19.44	19.22
31	18.03	---	16.98	18.10	---	15.61	---	19.04	---	19.65	19.36	---
MAX	19.19	19.47	19.00	18.10	18.27	18.27	18.95	19.04	20.39	19.65	19.81	20.19
CAL YR 2004	LOW 20.58											
WTR YR 2005	LOW 20.39											



392630082130400. Local Number, AT-6

LOCATION.—Latitude 39°26'30", longitude 82°13'04", Athens County, Hydrologic Unit 05030204, at Hocking Technical College near Nelsonville, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 54 ft, cased to 49 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land surface datum is 670 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter, 4.00 ft above land-surface datum.

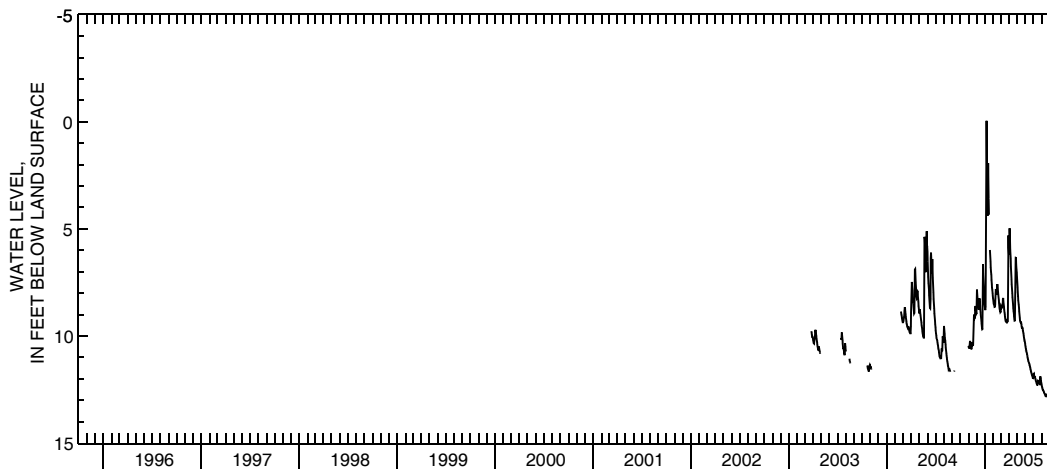
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—March 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 12.99 ft below land-surface datum, Sept. 24-25, 2005; minimum daily low 0.04 ft above land-surface datum, Jan. 7, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.46	8.94	8.61	8.27	8.87	6.19	7.23	10.43	11.94	12.28	12.31
2	---	10.53	8.14	8.75	8.37	8.67	6.15	7.46	10.51	11.78	12.35	12.08
3	---	10.56	7.84	8.80	8.47	8.59	5.01	7.72	10.57	11.76	12.40	12.15
4	---	10.56	8.07	8.64	8.55	8.62	5.01	7.95	10.65	11.84	12.45	12.25
5	---	10.54	8.30	6.45	8.61	8.69	5.55	8.15	10.72	11.91	12.51	12.35
6	---	10.28	8.48	2.02	8.64	8.68	5.99	8.34	10.78	11.91	12.54	12.43
7	---	10.28	8.63	-0.04	8.63	8.57	6.39	8.53	10.85	11.94	12.56	12.51
8	---	10.37	8.71	1.34	8.54	8.49	6.75	8.70	10.93	11.99	12.59	12.57
9	---	10.45	8.78	3.12	8.27	8.29	7.06	8.85	10.99	12.05	12.63	12.65
10	---	10.52	8.74	4.12	7.96	8.23	7.34	9.01	11.06	12.10	12.66	12.71
11	---	10.60	8.30	4.39	7.81	8.38	7.59	9.16	11.12	12.15	12.69	12.75
12	---	10.60	8.24	2.81	7.95	8.51	7.80	9.27	11.17	12.19	12.70	12.80
13	---	10.49	8.42	1.93	8.06	8.64	8.01	9.35	11.23	12.23	12.73	12.83
14	---	10.30	8.59	2.58	8.08	8.76	8.19	9.38	11.27	12.25	12.76	12.87
15	---	10.33	8.75	3.58	7.96	8.89	8.39	9.37	11.28	12.28	12.79	12.90
16	---	10.40	8.89	4.34	7.59	8.99	8.56	9.37	11.32	12.28	12.81	12.92
17	---	10.44	9.03	---	7.63	9.10	8.71	9.46	11.36	12.15	12.83	12.91
18	---	10.42	9.16	---	7.80	9.20	8.85	9.56	11.42	12.09	12.85	12.90
19	---	10.09	9.30	---	7.96	9.31	8.97	9.63	11.47	12.10	12.77	12.92
20	---	9.66	9.43	5.99	8.06	9.32	9.10	9.63	11.53	12.15	12.70	12.93
21	---	9.12	9.60	6.24	8.20	9.32	9.22	9.62	11.59	12.19	12.75	12.93
22	---	9.00	9.69	6.53	8.33	9.36	9.28	9.66	11.65	12.21	12.79	12.95
23	---	9.11	9.68	6.80	8.46	9.37	9.27	9.75	11.69	12.13	12.83	12.97
24	---	9.16	8.55	7.01	8.59	9.36	8.55	9.82	11.75	12.17	12.87	12.99
25	---	9.15	6.64	7.15	8.69	9.31	7.17	9.89	11.80	12.20	12.89	12.99
26	---	8.76	7.09	7.38	8.81	9.33	6.35	9.98	11.85	12.05	12.91	12.77
27	---	8.60	7.46	7.59	8.85	9.30	6.36	10.08	11.89	11.89	12.92	12.67
28	---	8.78	7.78	7.75	8.89	9.27	6.64	10.16	11.93	11.98	12.93	12.60
29	---	8.87	8.09	7.85	---	7.89	6.89	10.20	11.96	12.07	12.93	12.59
30	---	8.96	8.30	8.01	---	5.31	7.04	10.27	11.97	12.15	12.86	12.56
31	---	---	8.48	8.13	---	5.87	---	10.35	---	12.22	12.73	---
MAX	---	10.60	9.69	8.80	8.89	9.37	9.28	10.35	11.97	12.28	12.93	12.99
CAL YR 2004	LOW 11.68											
WTR YR 2005	LOW 12.99											



Ground-Water Records—Auglaize County

403233083574500. Local Number, AU-3

LOCATION.—Latitude 40°32'33", longitude 83°57'45", Auglaize County, Hydrologic Unit 05080001, 1 mi southwest of New Hampshire, Ohio. Owner: State of Ohio.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 12 in., depth 380 ft, cased to 52 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,020 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

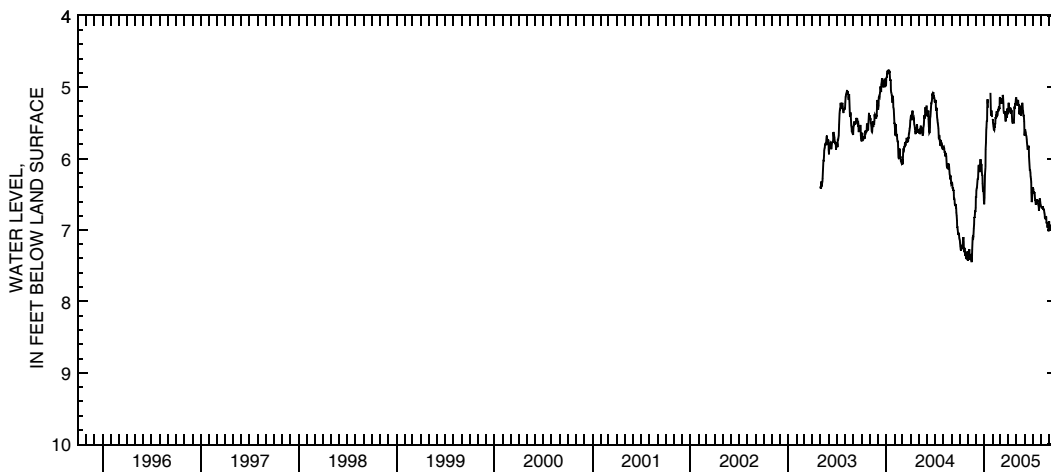
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—December 1974 to September 1982 continuous, periodic October 1982 to April 2003, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 11.87 ft below land-surface datum, Feb. 7-8, 1977; minimum measured low, 4.08 ft below land-surface datum, June 12, 1996.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.13	7.43	6.53	6.64	5.46	5.14	5.34	5.17	5.67	6.40	6.67	6.94
2	7.15	7.38	6.55	6.55	5.45	5.22	5.22	5.20	5.60	6.44	6.68	6.94
3	7.18	7.41	6.45	6.39	5.50	5.21	5.32	5.21	5.59	6.42	6.69	6.94
4	7.23	7.33	6.42	6.22	5.55	5.18	5.34	5.25	5.62	6.47	6.69	6.94
5	7.27	7.33	6.40	6.12	5.59	5.23	5.33	5.25	5.64	6.47	6.69	6.97
6	7.29	7.27	6.34	5.87	5.59	5.22	5.32	5.23	5.68	6.48	6.68	6.99
7	7.22	7.34	6.28	5.78	5.60	5.16	5.29	5.18	5.69	6.47	6.67	7.00
8	7.22	7.40	6.29	5.59	5.55	5.22	5.30	5.24	5.73	6.51	6.70	6.97
9	7.22	7.42	6.26	5.57	5.57	5.23	5.30	5.25	5.77	6.58	6.72	6.94
10	7.26	7.38	6.12	5.47	5.51	5.20	5.32	5.25	5.81	6.58	6.71	6.98
11	7.26	7.34	6.09	5.48	5.52	5.11	5.37	5.30	5.86	6.61	6.72	6.98
12	7.24	7.35	6.10	5.29	5.42	5.14	5.32	5.38	5.88	6.65	6.72	6.99
13	7.16	7.40	6.12	5.17	5.44	5.22	5.34	5.32	5.85	6.59	6.76	6.96
14	7.14	7.44	6.17	5.23	5.40	5.32	5.40	5.26	5.84	6.57	6.78	6.96
15	7.10	7.44	6.19	5.29	5.40	5.36	5.48	5.32	5.82	6.61	6.83	7.00
16	7.17	7.36	6.11	---	5.34	5.36	5.50	5.37	5.85	6.61	6.84	6.90
17	7.26	7.27	6.10	---	5.37	5.34	5.50	5.37	5.97	6.57	6.84	6.90
18	7.31	7.17	6.01	---	5.40	5.35	5.50	5.40	6.05	6.60	6.84	6.90
19	7.25	7.10	6.10	---	5.39	5.34	5.50	5.36	6.13	6.58	6.81	6.93
20	7.29	7.09	6.09	---	5.38	5.40	5.50	5.30	6.16	6.62	6.82	6.93
21	7.34	7.10	6.09	---	5.32	5.47	5.50	5.33	6.16	6.64	6.91	6.96
22	7.36	7.07	6.09	---	5.32	5.47	5.49	5.32	6.20	6.65	6.90	6.91
23	7.31	6.98	6.18	---	5.34	5.40	5.32	5.22	6.25	6.68	6.91	6.91
24	7.34	6.92	6.23	5.08	5.29	5.43	5.27	5.29	6.28	6.73	6.94	6.92
25	7.39	6.82	6.24	5.24	5.27	5.42	5.30	5.34	6.33	6.69	6.97	6.84
26	7.39	6.83	6.35	5.37	5.29	5.42	5.23	5.33	6.48	6.64	6.94	6.75
27	7.40	6.78	6.44	5.40	5.31	5.41	5.24	5.40	6.61	6.56	6.92	6.81
28	7.41	6.73	6.46	5.34	5.15	5.30	5.22	5.40	6.58	6.58	6.97	6.75
29	7.37	6.75	6.45	5.34	---	5.38	5.17	5.41	6.51	6.60	7.02	6.71
30	7.30	6.69	6.50	5.42	---	5.31	5.14	5.48	6.43	6.64	7.00	6.68
31	7.40	---	6.58	---	---	5.35	---	5.68	---	6.66	6.88	---
MAX	7.41	7.44	6.58	6.64	5.60	5.47	5.50	5.68	6.61	6.73	7.02	7.00
CAL YR 2004	LOW 7.44											
WTR YR 2005	LOW 7.44											



Ground-Water Records—Belmont County

400118081082200. Local Number, B-3

LOCATION.—Latitude 40°01'18", longitude 81°08'22", Belmont County, Hydrologic Unit 05040001, Mt. Olivett Public Square, Mt. Olivett, Ohio. Owner: Village of Mt. Olivett.

AQUIFER.—Shale of Pennsylvanian Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 119 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,265 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter, 1.5 ft above land-surface datum.

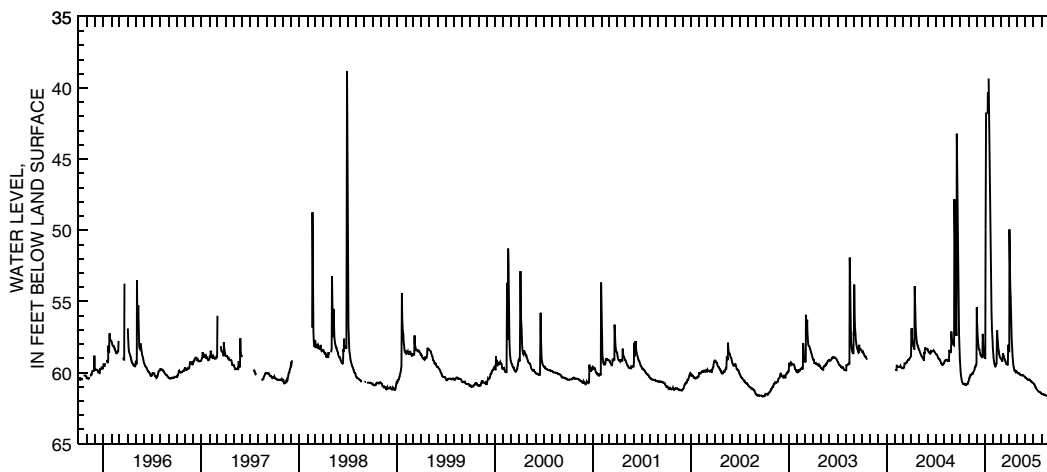
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—July 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 62.94 ft below land-surface datum, Dec. 26, 1988; minimum daily low, 38.81 ft below land-surface datum, June 28, 1998.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.42	60.63	59.39	58.95	58.53	58.99	58.47	59.96	60.35	60.75	61.50	61.59
2	59.74	60.57	55.41	58.99	58.80	59.03	58.49	59.97	60.36	60.76	61.50	61.59
3	59.97	60.48	56.19	59.03	59.01	59.06	49.94	60.00	60.38	60.78	61.50	61.58
4	60.17	60.45	56.84	49.92	59.16	59.10	51.41	60.03	60.39	60.83	61.52	61.56
5	60.35	60.33	57.35	41.72	59.33	59.13	52.70	60.04	60.41	60.84	61.53	61.53
6	60.48	60.30	57.71	---	59.45	59.18	53.81	60.06	60.42	60.90	61.53	61.50
7	60.60	60.23	57.96	---	59.52	59.18	54.79	60.06	60.43	60.93	61.53	61.47
8	60.66	60.17	58.20	---	59.57	59.04	55.67	60.06	60.47	60.99	61.56	61.41
9	60.69	60.17	58.32	---	59.57	58.64	56.45	60.08	60.48	61.02	61.56	61.34
10	60.77	60.17	58.34	---	59.54	58.70	57.11	60.08	60.49	61.07	61.56	61.31
11	60.81	60.15	58.35	41.81	59.46	58.77	57.63	60.12	60.51	61.10	61.56	61.29
12	60.81	60.12	58.43	40.28	59.42	58.82	58.10	60.15	60.51	61.16	61.56	61.28
13	60.81	60.09	58.52	---	59.39	58.89	58.46	60.17	60.51	61.17	61.56	61.23
14	60.79	60.11	58.64	---	59.34	58.97	58.77	60.17	60.51	61.20	61.58	61.20
15	60.78	60.11	58.73	39.33	57.09	59.04	59.04	60.17	60.49	61.22	61.59	61.18
16	60.78	60.11	58.77	42.54	57.09	59.09	59.28	60.17	60.49	61.24	61.61	61.17
17	60.81	60.06	58.79	45.09	57.43	59.13	59.45	60.18	60.51	61.26	61.62	61.16
18	60.84	60.00	58.80	47.17	57.72	59.18	59.57	60.20	60.53	61.28	61.62	61.16
19	60.84	59.97	58.80	48.89	58.02	59.22	59.67	60.20	60.57	61.29	61.62	61.17
20	60.86	59.91	58.85	50.39	58.24	59.29	59.78	60.20	60.59	61.32	61.62	61.18
21	60.87	59.87	58.86	51.59	58.39	59.36	59.82	60.20	60.60	61.34	61.62	61.18
22	60.87	59.85	58.92	52.62	58.53	59.40	59.87	60.20	60.60	61.35	61.62	61.18
23	60.87	59.81	58.92	53.55	58.67	59.40	59.88	60.20	60.63	61.37	61.64	61.20
24	60.84	59.74	57.29	54.39	58.76	59.43	59.91	60.18	60.64	61.38	61.67	61.23
25	60.83	59.61	57.69	55.11	58.82	59.45	59.93	60.20	60.66	61.38	61.67	61.23
26	60.83	59.60	58.04	55.79	58.91	59.46	59.96	60.21	60.69	61.38	61.68	61.23
27	60.83	59.58	58.34	56.42	58.97	59.46	59.88	60.23	60.69	61.38	61.67	61.23
28	60.81	59.49	58.52	57.00	58.98	59.45	59.89	60.26	60.72	61.41	61.67	61.24
29	60.79	59.48	58.65	57.48	---	58.29	59.91	60.27	60.73	61.44	61.67	61.23
30	60.74	59.46	58.77	57.87	---	58.05	59.94	60.30	60.74	61.47	61.65	61.24
31	60.66	---	58.85	58.24	---	58.31	---	60.32	---	61.49	61.61	---
MAX	60.87	60.63	59.39	59.03	59.57	59.46	59.96	60.32	60.74	61.49	61.68	61.59
CAL YR 2004	LOW 60.87											
WTR YR 2005	LOW 61.68											



Ground-Water Records—Brown County

385932083412400. Local Number, BR-20

LOCATION.—Latitude 38°59'32", longitude 83°41'24", Brown County, Hydrologic Unit 05090201, near Fincastle, Ohio. Owner: Davon Inc.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 40 ft, cased to 25 ft.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,026.27 ft above sea level. Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

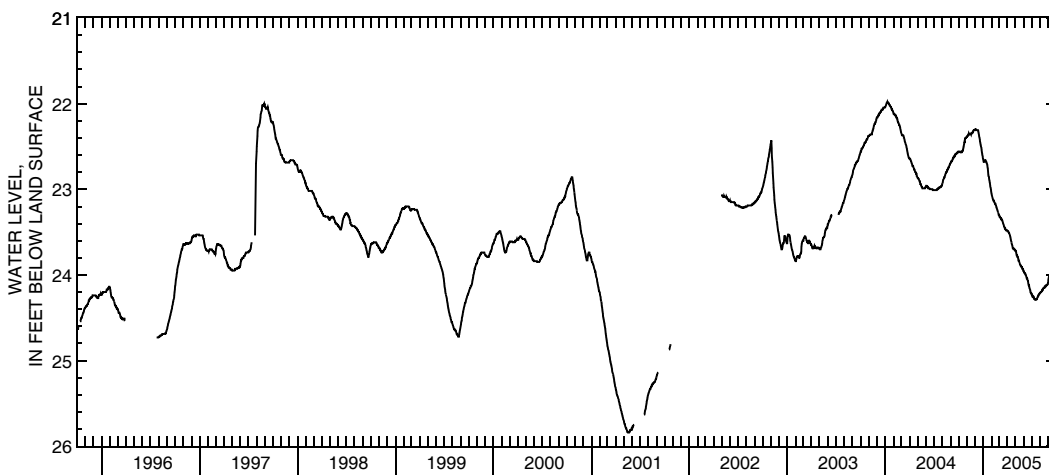
PERIOD OF RECORD.—March 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 25.84 ft below land-surface datum, May 16-21, 2001; minimum daily low, 21.98 ft below land-surface datum, Jan. 9, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.56	22.39	22.31	22.65	23.05	23.30	23.49	23.72	23.96	24.23	24.21	24.06
2	22.56	22.38	22.31	22.67	23.07	23.31	23.49	23.72	23.97	24.23	24.21	24.04
3	22.56	22.38	22.30	22.68	23.08	23.32	23.49	23.73	23.97	24.24	24.20	24.02
4	22.56	22.38	22.30	22.68	23.10	23.32	23.49	23.74	23.98	24.26	24.20	24.01
5	22.56	22.37	22.31	22.68	23.11	23.33	23.50	23.76	23.98	24.25	24.20	24.00
6	22.56	22.36	22.31	22.67	23.12	23.33	23.51	23.77	23.99	24.25	24.19	23.99
7	22.57	22.36	22.31	22.66	23.13	23.34	23.51	23.77	23.99	24.26	24.19	23.97
8	22.57	22.35	22.31	22.66	23.13	23.34	23.52	23.79	24.00	24.26	24.18	23.96
9	22.57	22.36	22.31	22.66	23.14	23.35	23.53	23.79	24.01	24.28	24.18	23.94
10	22.57	22.36	22.31	22.67	23.14	23.35	23.54	23.80	24.02	24.28	24.17	23.93
11	22.57	22.36	22.31	22.68	23.15	23.36	23.55	23.81	24.03	24.28	24.17	23.92
12	22.57	22.36	22.31	22.68	23.16	23.36	23.56	23.83	24.04	24.28	24.16	23.90
13	22.56	22.35	22.32	22.69	23.17	23.37	23.58	23.83	24.04	24.29	24.15	23.89
14	22.56	22.35	22.34	22.70	23.17	23.38	23.59	23.84	24.05	24.29	24.15	23.87
15	22.55	22.35	22.35	22.71	23.17	23.39	23.61	23.85	24.06	24.29	24.15	23.86
16	22.55	22.36	22.37	22.72	23.18	23.40	23.62	23.86	24.07	24.29	24.15	23.84
17	22.54	22.35	22.39	22.74	23.19	23.41	23.64	23.87	24.07	24.29	24.15	23.83
18	22.53	22.35	22.40	22.76	23.20	23.42	23.65	23.88	24.10	24.29	24.14	23.82
19	22.51	22.35	22.42	22.81	23.21	23.43	23.66	23.89	24.12	24.28	24.14	23.80
20	22.50	22.34	22.44	22.83	23.22	23.44	23.67	23.89	24.12	24.28	24.14	23.79
21	22.48	22.34	22.46	22.85	23.23	23.45	23.69	23.89	24.13	24.27	24.13	23.78
22	22.47	22.34	22.48	22.86	23.24	23.45	23.69	23.90	24.15	24.26	24.13	23.77
23	22.45	22.33	22.49	22.88	23.25	23.46	23.69	23.90	24.16	24.25	24.13	23.75
24	22.46	22.33	22.51	22.90	23.26	23.46	23.69	23.91	24.17	24.25	24.12	23.74
25	22.41	22.32	22.52	22.92	23.27	23.47	23.70	23.91	24.18	24.24	24.12	23.72
26	22.41	22.31	22.54	22.93	23.28	23.48	23.70	23.92	24.19	24.24	24.12	23.71
27	22.40	22.31	22.57	22.96	23.29	23.48	23.70	23.93	24.21	24.23	24.12	23.70
28	22.40	22.31	22.59	22.98	23.30	23.48	23.70	23.93	24.22	24.22	24.11	23.69
29	22.40	22.31	22.61	22.99	---	23.48	23.71	23.94	24.21	24.22	24.11	23.67
30	22.39	22.31	22.62	23.01	---	23.48	23.71	23.95	24.22	24.22	24.10	23.66
31	22.39	---	22.64	23.03	---	23.48	---	23.95	---	24.21	24.09	---
MAX	22.57	22.39	22.64	23.03	23.30	23.48	23.71	23.95	24.22	24.29	24.21	24.06

CAL YR 2004 LOW 23.01
WTR YR 2005 LOW 24.29



Ground-Water Records—Butler County

391904084371800. Local Number, BU-12

LOCATION.—Latitude 39°19'04", longitude 84°37'18", Butler County, Hydrologic Unit 05080002, 1.5 mi east of Ross, Ohio. Owner: City of Cincinnati.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused observation well, diameter 6 in., depth 157 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 547.33 ft above sea level. Measuring point: Floor of instrument shelter 7.8 ft above land-surface datum.

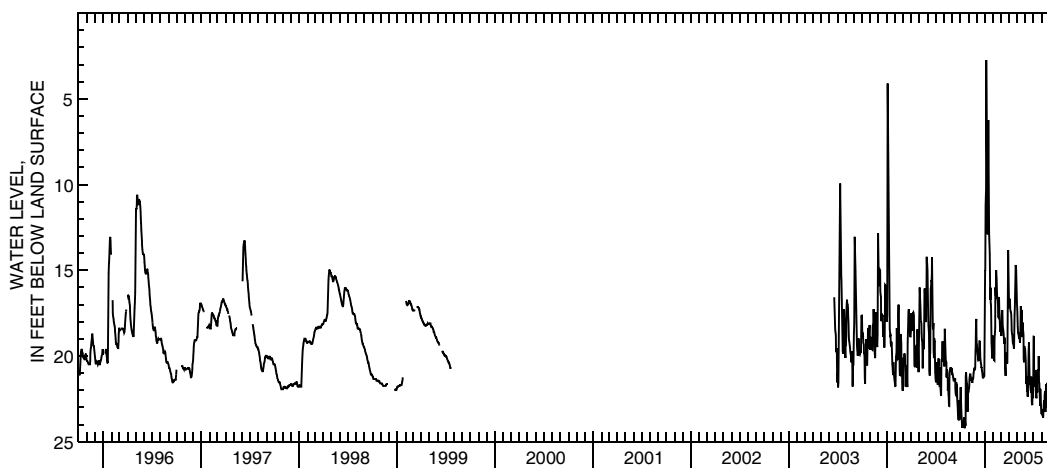
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1968 to July 1999 and June 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 28.40 ft below land-surface datum, July 11, 1988; minimum daily low, 2.00 ft above land surface, May 24 and 25, 1968.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.62	22.08	18.96	16.85	19.06	18.56	16.78	16.96	19.73	21.25	23.40	21.75
2	22.30	21.94	19.34	15.00	19.04	18.48	17.14	17.30	20.09	18.88	23.13	21.81
3	21.83	21.91	19.39	15.02	19.10	18.76	17.13	17.97	20.25	18.89	23.38	20.34
4	22.54	21.80	19.64	11.23	20.22	18.83	16.67	18.30	21.37	20.70	23.49	18.80
5	23.14	21.35	19.87	10.20	20.26	17.74	16.92	18.64	21.62	21.01	23.52	20.80
6	23.47	21.11	20.02	2.73	18.91	17.38	17.28	18.68	21.21	21.42	23.60	21.69
7	23.86	21.04	20.26	4.56	18.74	17.38	17.43	18.82	22.04	21.80	23.32	22.14
8	24.10	21.09	20.25	6.02	18.34	18.24	17.45	18.98	22.05	20.85	22.97	22.36
9	24.20	21.23	20.16	10.17	16.00	18.36	17.55	19.00	22.32	20.93	22.60	22.63
10	23.81	21.32	19.68	12.24	16.16	18.46	17.96	18.64	22.39	22.08	22.94	21.68
11	24.05	21.38	19.29	12.91	16.50	18.56	18.50	19.13	21.35	22.32	23.11	22.27
12	23.98	21.36	19.15	11.26	14.99	18.72	18.72	19.22	20.93	22.48	22.30	22.69
13	23.98	21.37	19.16	9.12	15.40	19.11	18.76	18.77	19.71	21.52	22.08	22.90
14	23.89	21.46	19.70	6.24	15.48	19.30	18.93	17.62	19.20	21.24	23.00	23.20
15	23.58	21.58	20.12	9.32	16.27	18.93	19.24	17.10	20.33	21.69	23.28	23.20
16	23.96	21.33	20.28	11.19	16.61	19.01	19.29	17.59	21.08	22.12	22.14	23.34
17	24.16	21.34	20.40	12.87	16.63	20.39	19.34	18.81	21.39	20.80	21.64	21.65
18	24.22	21.31	20.50	13.46	16.76	20.70	19.39	18.11	21.68	21.19	22.70	21.63
19	23.86	21.28	20.68	14.04	17.07	21.16	19.58	17.31	21.53	20.82	23.02	21.99
20	24.04	21.01	20.64	15.68	17.73	20.14	19.46	18.81	21.81	20.88	21.87	21.78
21	24.08	20.87	20.85	16.73	17.76	19.92	18.10	18.90	22.00	20.01	21.62	20.84
22	21.18	20.74	20.92	16.02	16.62	19.82	17.62	18.06	22.12	21.56	21.58	20.68
23	20.95	20.74	21.04	16.92	16.62	20.28	17.12	18.45	21.21	21.59	22.46	20.62
24	21.30	20.76	21.26	17.05	17.51	20.38	15.72	18.58	22.13	21.96	22.94	20.68
25	21.44	20.77	21.30	18.31	17.62	20.41	15.33	18.76	22.72	22.39	23.25	20.67
26	21.59	20.70	21.00	19.22	18.08	20.40	14.70	20.14	22.81	22.90	22.09	19.97
27	21.67	19.68	21.06	19.59	18.60	19.06	14.89	20.37	22.88	21.92	21.64	18.66
28	22.77	19.54	21.16	20.03	18.55	17.28	14.93	19.42	21.53	22.42	22.49	17.95
29	23.26	18.07	21.20	20.15	---	13.83	15.57	19.51	22.42	22.81	22.92	18.65
30	22.29	17.84	21.17	18.89	---	15.19	16.22	19.57	22.42	23.08	23.06	18.85
31	22.07	---	20.71	18.81	---	16.09	---	19.60	---	23.30	21.69	---
MAX	24.22	22.08	21.30	20.15	20.26	21.16	19.58	20.37	22.88	23.30	23.60	23.34
CAL YR 2004	LOW 24.22											
WTR YR 2005	LOW 24.22											



391942084345700. Local Number, BU-18

LOCATION.—Latitude 39°19'42", longitude 84°34'57", Butler County, Hydrologic Unit 05080002, in Fairfield, Ohio. Owner: City of Hamilton.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused observation well, diameter 6 in., depth 210 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 570 ft above sea level from topographic map. Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

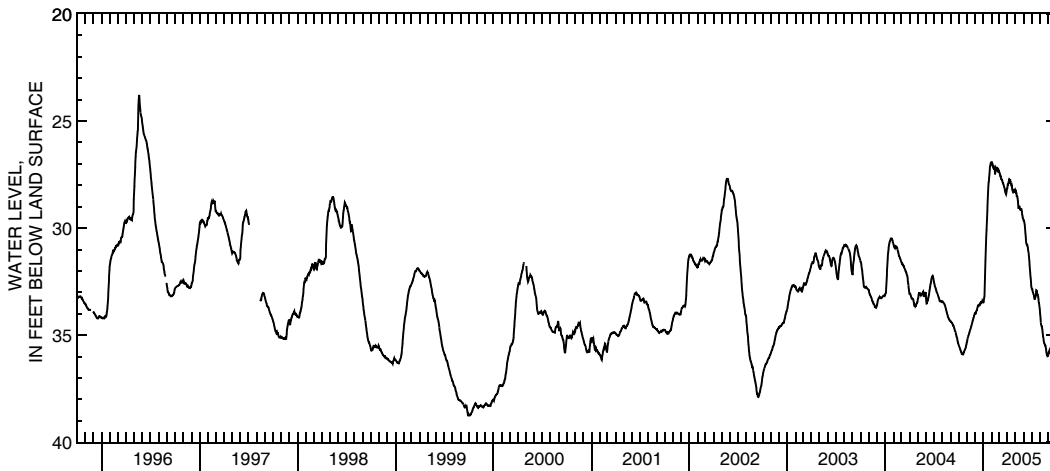
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 38.74 ft below land-surface datum, Sept. 29, 30, Oct. 4 and 5, 1999; minimum daily low, 23.79 ft below land surface, May 20, 1996.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.45	35.32	33.97	33.47	26.94	27.37	28.13	28.22	29.64	32.82	33.94	35.84
2	35.49	35.27	33.96	33.46	26.93	27.39	27.98	28.25	29.68	32.85	34.09	35.80
3	35.52	35.21	33.97	33.44	27.02	27.43	27.98	28.28	29.69	32.86	34.26	35.78
4	35.56	35.15	33.98	33.31	27.01	27.46	27.94	28.37	29.78	32.90	34.40	35.74
5	35.60	35.10	33.92	33.18	27.11	27.53	27.89	28.38	29.87	32.99	34.52	35.67
6	35.64	35.04	33.87	32.92	27.14	27.59	27.82	28.50	30.05	33.06	34.59	35.71
7	35.67	34.99	33.83	32.50	27.12	27.59	27.76	28.52	30.25	33.07	34.59	35.78
8	35.71	34.96	33.83	31.97	27.11	27.71	27.72	28.55	30.39	33.13	34.66	35.83
9	35.74	34.92	33.76	31.52	27.13	27.72	27.73	28.62	30.53	33.17	34.75	35.88
10	35.78	34.87	33.72	31.09	27.26	27.72	27.81	28.73	30.71	33.25	34.85	35.91
11	35.82	34.82	33.67	30.70	27.16	27.73	27.84	28.96	30.76	33.31	34.96	35.97
12	35.86	34.78	33.62	30.38	27.24	27.77	27.82	29.06	30.76	33.31	35.05	36.00
13	35.86	34.74	33.62	30.08	27.33	27.82	27.92	29.06	30.77	33.26	35.12	36.05
14	35.88	34.71	33.61	29.84	27.49	27.87	27.95	29.02	30.79	33.23	35.24	36.09
15	35.88	34.67	33.59	29.52	27.37	27.91	27.99	29.00	30.87	33.20	35.32	36.13
16	35.89	34.62	33.59	29.19	27.19	27.92	28.02	29.00	30.90	33.15	35.36	36.14
17	35.90	34.58	33.57	28.90	27.21	27.96	28.01	29.07	31.00	33.04	35.38	36.13
18	35.89	34.54	33.56	28.64	27.20	28.00	28.12	29.13	31.08	32.91	35.43	36.07
19	35.85	34.51	33.53	28.28	27.18	28.05	28.18	29.15	31.16	32.92	35.46	36.06
20	35.80	34.45	33.56	28.05	27.15	28.10	28.26	29.15	31.24	33.05	35.50	36.01
21	35.78	34.41	33.53	27.88	27.24	28.14	28.30	29.14	31.40	33.05	35.50	35.95
22	35.75	34.36	33.49	27.77	27.24	28.16	28.28	29.13	31.57	33.10	35.57	35.95
23	35.71	34.31	33.48	27.64	27.31	28.26	28.28	29.09	31.73	33.11	35.65	35.92
24	35.68	34.26	33.46	27.49	27.30	28.31	28.26	29.19	31.93	33.15	35.75	35.91
25	35.65	34.20	33.45	27.30	27.32	28.34	28.31	29.22	32.10	33.23	35.83	35.84
26	35.63	34.18	33.40	27.14	27.29	28.40	28.30	29.34	32.23	33.35	35.91	35.81
27	35.60	34.13	33.46	27.10	27.35	28.43	28.28	29.40	32.34	33.46	35.92	35.77
28	35.58	34.07	33.45	27.06	27.32	28.40	28.31	29.50	32.53	33.49	35.94	35.76
29	35.49	34.04	33.40	26.96	---	28.30	28.32	29.54	32.68	33.58	35.98	35.67
30	35.44	34.01	33.43	26.90	---	28.18	28.25	29.58	32.80	33.69	35.97	35.58
31	35.38	---	33.46	26.93	---	28.15	---	29.64	---	33.80	35.95	---
MAX	35.90	35.32	33.98	33.47	27.49	28.43	28.32	29.64	32.80	33.80	35.98	36.14
CAL YR 2004	LOW 35.90											
WTR YR 2005	LOW 36.14											



392017084345200. Local Number, BU-7

LOCATION.—Latitude 39°20'17", longitude 84°34'52", Butler County, Hydrologic Unit 05080002, 5584 East River Road in Fairfield, Ohio. Owner: C. E. Schiering.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water-table well, diameter 6 in., depth 176 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 572.54 ft above sea level. Measuring point: Floor of instrument shelter 1.93 ft above land-surface datum.

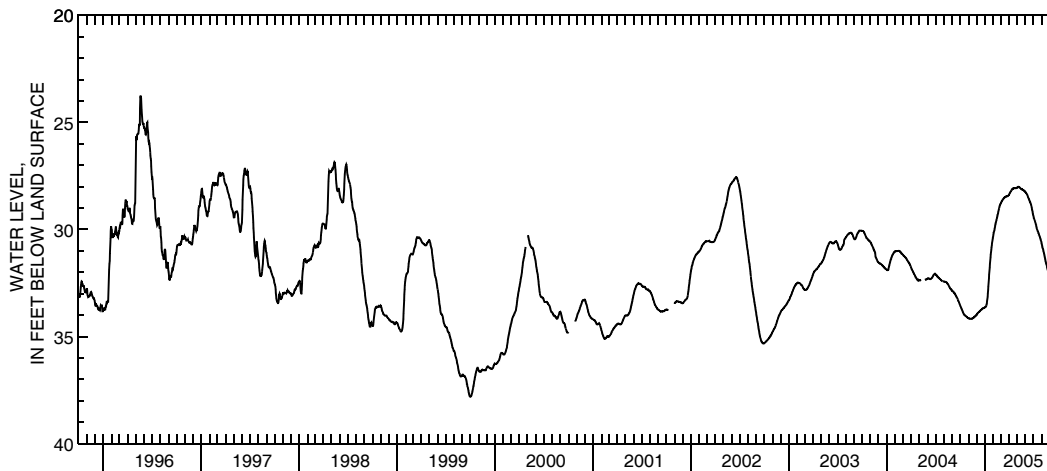
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 37.81 ft below land-surface datum, Sept. 30, Oct. 1 and 2, 1999; minimum daily low, 11.45 ft below land-surface datum, June 6, 1947.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.56	34.14	33.98	33.65	30.33	28.79	28.38	28.04	28.26	29.37	30.65	32.32
2	33.59	34.15	33.97	33.64	30.25	28.77	28.35	28.03	28.27	29.42	30.71	32.36
3	33.61	34.15	33.95	33.63	30.17	28.74	28.33	28.03	28.29	29.47	30.77	32.40
4	33.65	34.16	33.93	33.61	30.11	28.71	28.30	28.02	28.30	29.51	30.83	32.43
5	33.68	34.16	33.92	33.59	30.04	28.69	28.28	28.02	28.32	29.55	30.89	32.47
6	33.71	34.16	33.90	33.56	29.97	28.66	28.26	28.01	28.34	29.59	30.95	32.50
7	33.74	34.17	33.88	33.51	29.91	28.64	28.23	28.01	28.37	29.64	31.00	32.53
8	33.77	34.17	33.87	33.44	29.84	28.62	28.21	28.02	28.40	29.69	31.05	32.57
9	33.80	34.17	33.86	33.35	29.77	28.60	28.19	28.02	28.43	29.73	31.10	32.59
10	33.83	34.17	33.85	33.25	29.70	28.58	28.17	28.03	28.47	29.78	31.15	32.62
11	33.87	34.17	33.83	33.15	29.66	28.57	28.15	28.05	28.50	29.83	31.21	32.67
12	33.90	34.17	33.82	32.99	29.61	28.55	28.13	28.06	28.53	29.88	31.27	32.71
13	33.93	34.16	33.81	32.82	29.56	28.53	28.12	28.08	28.57	29.92	31.33	32.75
14	33.95	34.16	33.79	32.66	29.51	28.52	28.10	28.09	28.59	29.97	31.40	32.78
15	33.97	34.15	33.78	32.48	29.46	28.51	28.09	28.10	28.62	30.01	31.46	32.82
16	33.99	34.15	33.77	32.29	29.40	28.49	28.09	28.11	28.65	30.05	31.51	32.86
17	34.00	34.14	33.76	32.11	29.35	28.49	28.08	28.11	28.68	30.08	31.57	32.89
18	34.01	34.13	33.75	31.94	29.29	28.48	28.07	28.12	28.71	30.11	31.62	32.92
19	34.02	34.12	33.74	31.78	29.24	28.47	28.07	28.13	28.73	30.15	31.67	32.95
20	34.03	34.11	33.73	31.61	29.18	28.47	28.07	28.14	28.77	30.17	31.72	32.98
21	34.04	34.10	33.72	31.46	29.13	28.46	28.08	28.14	28.80	30.22	31.77	33.00
22	34.05	34.09	33.71	31.30	29.07	28.46	28.08	28.15	28.84	30.25	31.82	33.03
23	34.06	34.09	33.70	31.17	29.01	28.45	28.08	28.15	28.89	30.29	31.88	33.06
24	34.07	34.08	33.69	31.05	28.97	28.45	28.08	28.16	28.94	30.32	31.93	33.08
25	34.08	34.06	33.69	30.94	28.92	28.45	28.08	28.17	29.00	30.35	31.98	33.10
26	34.09	34.05	33.68	30.84	28.87	28.45	28.08	28.18	29.06	30.39	32.04	33.12
27	34.10	34.04	33.67	30.74	28.84	28.44	28.07	28.19	29.12	30.43	32.09	33.14
28	34.11	34.03	33.67	30.65	28.81	28.44	28.07	28.20	29.19	30.46	32.15	33.16
29	34.12	34.01	33.66	30.57	---	28.43	28.06	28.21	29.25	30.51	32.19	33.18
30	34.13	34.00	33.65	30.48	---	28.41	28.05	28.23	29.32	30.56	32.24	33.19
31	34.13	---	33.65	30.40	---	28.39	---	28.24	---	30.60	32.28	---
MAX	34.13	34.17	33.98	33.65	30.33	28.79	28.38	28.24	29.32	30.60	32.28	33.19
CAL YR 2004	LOW 34.17											
WTR YR 2005	LOW 34.17											



392048084311400. Local Number, BU-8

LOCATION.—Latitude 39°20'48", longitude 84°31'14", Butler County, Hydrologic Unit 05080002, Symmes and Gilmore Road, east of Hamilton, Ohio. Owner: City of Hamilton.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 6 in., depth 200 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 630 ft above sea level, from topographic map. Measuring point: Floor of instrument shelter 4.13 ft above land-surface datum.

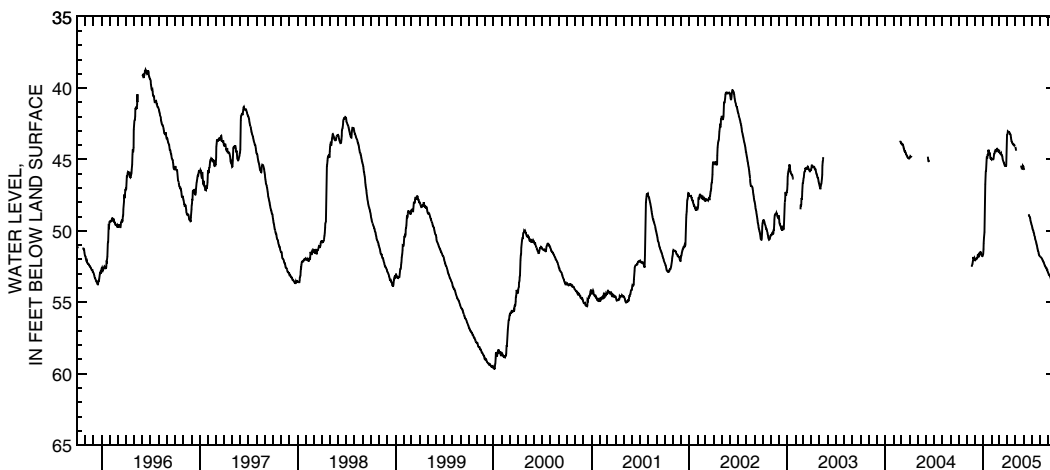
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 71.70 ft below land-surface datum, Oct. 24, 1944; minimum daily low, 38.24 ft below land-surface datum, June 8, 1947.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	51.95	51.62	45.00	44.32	43.23	44.12	45.62	49.63	51.80	52.99
2	---	---	52.00	51.29	44.95	44.43	43.16	44.20	45.70	49.68	51.82	53.03
3	---	---	52.01	50.86	44.95	44.53	43.03	44.35	45.75	49.77	51.83	53.07
4	---	---	52.01	50.47	44.99	44.55	43.06	44.40	---	49.83	51.85	53.11
5	---	---	52.01	50.10	45.00	44.58	43.07	---	---	49.93	51.88	53.14
6	---	---	52.01	48.88	45.00	44.61	43.08	---	---	50.00	51.92	53.18
7	---	---	51.97	47.70	45.00	44.61	43.08	---	---	50.06	51.94	53.21
8	---	---	51.92	46.75	44.92	44.58	43.11	---	---	50.14	51.98	53.25
9	---	---	51.92	46.47	44.82	44.67	43.16	---	---	50.21	52.04	53.31
10	---	---	51.87	45.86	44.65	44.70	43.19	---	---	50.30	52.08	53.36
11	---	---	51.71	45.77	44.63	44.70	43.24	---	---	50.38	52.11	53.40
12	---	---	51.71	45.47	44.58	44.72	43.25	---	---	50.44	52.13	53.45
13	---	---	51.68	45.07	44.48	44.84	43.32	---	---	50.52	52.15	53.48
14	---	---	51.76	44.88	44.42	44.95	43.45	---	---	50.61	52.20	53.54
15	---	---	51.80	44.90	44.35	45.06	43.59	---	---	50.68	52.26	53.57
16	---	---	51.80	44.88	44.36	45.14	43.71	---	---	50.75	52.33	53.60
17	---	---	51.72	44.70	44.39	45.17	43.76	---	---	50.81	52.38	53.65
18	---	52.52	51.68	44.70	44.42	45.21	43.80	---	---	50.88	52.42	53.73
19	---	52.49	51.49	44.61	44.44	45.24	43.84	---	48.84	50.96	52.46	53.78
20	---	52.41	51.52	44.33	44.44	45.33	43.89	---	48.88	51.03	52.50	53.80
21	---	52.34	51.50	44.41	44.20	45.40	43.95	---	48.95	51.11	52.52	53.82
22	---	52.31	51.52	44.41	44.27	45.43	43.96	45.43	48.99	51.23	52.56	53.86
23	---	52.16	51.52	44.55	44.33	45.43	43.97	45.55	49.02	51.32	52.62	53.91
24	---	52.06	51.61	44.58	44.35	45.45	43.97	45.62	49.06	51.41	52.63	53.98
25	---	51.83	51.63	44.58	44.38	45.46	43.97	45.65	49.15	51.46	52.64	54.04
26	---	51.92	51.66	44.58	44.42	45.47	43.97	45.66	49.26	51.52	52.71	54.09
27	---	51.93	51.75	44.79	44.44	45.47	44.02	45.65	49.34	51.60	52.73	54.13
28	---	51.98	51.76	44.93	44.42	45.41	44.07	45.64	49.42	51.68	52.74	54.15
29	---	52.05	51.74	44.94	---	44.73	44.09	45.45	49.48	51.72	52.85	54.16
30	---	52.06	51.74	44.93	---	43.84	---	45.48	49.56	51.75	52.90	54.16
31	---	---	51.73	44.97	---	43.28	---	45.52	---	51.79	52.95	---
MAX	---	52.52	52.01	51.62	45.00	45.47	44.09	45.66	49.56	51.79	52.95	54.16
CAL YR 2004	LOW 52.52											
WTR YR 2005	LOW 54.16											



392737084291300. Local Number, BU-16

LOCATION.—Latitude 39°27'37", longitude 84°29'13", Butler County, Hydrologic Unit 05080002, Wayne–Madison Road 2 mi southwest of Trenton, Ohio.

Owner: Miller Brewing Company.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 4 in., depth 218 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

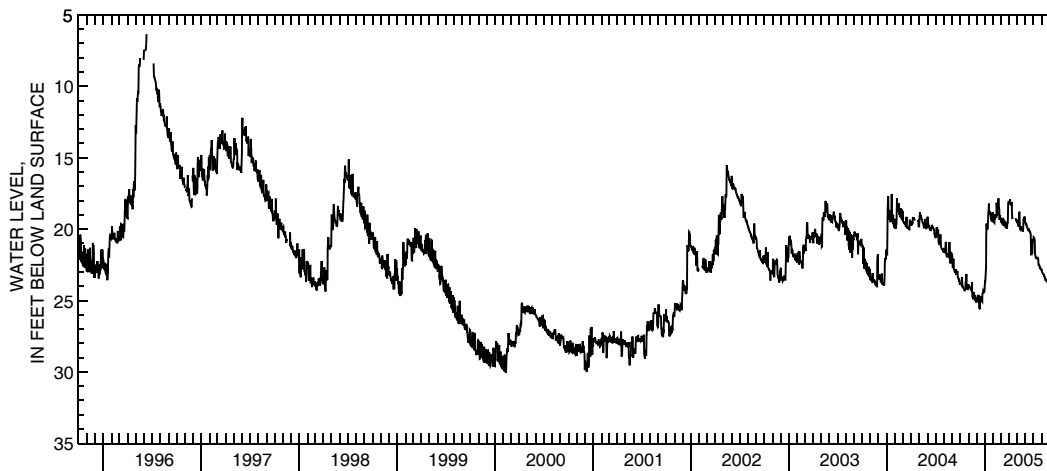
DATUM.—Elevation of land-surface datum is 640 ft above sea level, from topographic map. Measuring point: Floor of instrument shelter, 4.5 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 30.05 ft below land-surface datum, Feb. 10, 2000; minimum daily low, 5.71 ft below land-surface datum, April. 17, 1991.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.73	23.96	25.14	23.91	19.35	19.32	18.12	19.45	19.55	20.78	22.86	24.03
2	23.78	23.99	24.81	23.67	19.50	19.41	18.20	19.53	19.62	20.58	22.95	24.06
3	23.79	23.97	24.84	23.67	19.50	19.49	18.20	19.53	19.62	20.61	23.03	24.15
4	23.84	24.02	24.84	23.19	19.52	19.50	18.11	19.65	19.68	20.61	23.06	---
5	23.88	24.06	24.89	22.62	19.56	19.56	17.90	19.68	19.68	20.67	23.12	---
6	23.91	24.09	24.63	20.42	19.20	19.58	18.20	19.77	19.75	20.78	23.15	---
7	23.35	24.14	24.93	19.62	19.25	19.20	18.24	19.77	19.86	21.78	23.15	---
8	23.40	24.18	24.60	20.01	19.25	19.62	18.29	18.80	19.90	21.84	23.19	---
9	23.96	24.20	24.90	20.01	18.96	19.65	18.30	18.84	19.97	21.95	23.21	---
10	24.08	24.21	25.26	19.92	19.11	19.65	18.33	18.84	20.04	21.99	23.30	---
11	24.08	24.27	25.55	20.01	19.11	19.68	18.11	19.86	20.04	21.99	23.31	---
12	24.08	24.33	25.56	19.72	19.14	19.68	18.93	19.98	20.07	22.05	23.34	---
13	24.13	24.32	25.49	19.19	19.14	19.41	19.29	20.04	20.06	22.05	23.43	---
14	24.18	23.72	25.01	18.93	18.15	19.44	19.19	20.01	20.04	22.05	23.47	---
15	24.24	24.74	24.97	18.60	18.78	19.75	---	19.81	20.07	22.05	23.58	---
16	24.30	24.81	24.99	18.21	19.04	19.77	---	19.86	20.11	22.02	23.58	---
17	24.30	24.78	25.04	18.69	18.48	19.81	---	19.90	20.15	22.02	23.55	---
18	24.30	24.78	25.04	18.77	18.48	19.81	---	19.95	20.19	22.02	23.55	---
19	24.21	24.48	24.69	18.84	18.48	19.59	---	19.98	20.24	22.11	23.60	---
20	24.27	24.48	25.02	18.84	17.90	19.56	---	19.95	20.30	22.50	23.64	---
21	23.73	24.51	25.04	18.93	17.85	19.61	---	19.85	20.36	22.50	23.64	---
22	23.73	24.51	25.07	18.93	18.54	19.64	---	20.18	21.48	22.53	23.72	---
23	23.76	24.87	24.51	19.02	18.56	19.92	---	19.95	21.78	22.56	23.73	---
24	23.15	24.97	24.45	19.26	18.63	19.92	---	20.00	21.78	22.59	23.79	---
25	23.78	24.96	24.44	19.28	19.35	19.89	19.23	19.29	21.69	22.70	23.87	---
26	24.12	24.65	24.33	19.41	19.08	19.56	19.29	19.35	21.53	22.70	23.91	---
27	24.18	24.97	24.36	19.41	19.08	19.55	19.35	19.41	21.68	22.70	23.96	---
28	24.20	25.02	24.38	19.23	19.28	19.43	19.38	19.44	20.72	22.80	23.97	---
29	24.21	25.07	24.39	19.20	---	18.24	19.36	19.13	20.76	22.80	24.02	---
30	23.91	25.08	24.33	18.81	---	18.08	19.45	19.45	20.88	22.80	24.03	---
31	23.91	---	24.32	19.20	---	18.09	---	19.52	---	22.86	24.03	---
MAX	24.30	25.08	25.56	23.91	19.56	19.92	19.45	20.18	21.78	22.86	24.03	24.15
CAL YR 2004		LOW 25.56										
WTR YR 2005		LOW 25.56										



392743084295500. Local Number, BU-17

LOCATION.—Latitude 39°27'43", longitude 84°29'55", Butler County, Hydrologic Unit 05080002, southwest of Trenton, Ohio. Owner: Southwest Regional Water District.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 8 in., depth 212 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 635.28 ft above sea level. Measuring point: Floor of instrument shelter, 2.2 ft above land-surface datum.

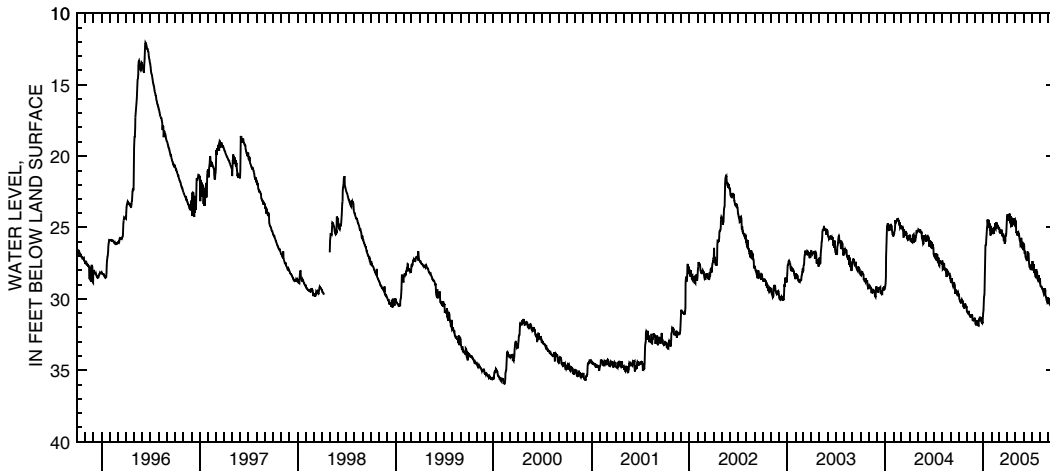
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Prior to 1992 published as 392733084293000.

PERIOD OF RECORD.—March 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 35.94 ft below land-surface datum, Feb. 11, 2000; minimum daily low, 12.06 ft below land-surface datum, June 12, 1996.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.64	30.88	31.43	30.98	25.38	25.02	24.14	24.47	26.15	27.58	28.56	30.27
2	29.72	30.90	31.46	30.77	25.04	25.04	24.14	24.80	26.18	27.90	29.03	30.30
3	29.73	30.87	31.74	30.47	25.43	25.32	24.08	24.77	26.22	27.63	29.12	30.32
4	30.05	30.98	31.77	29.88	25.07	25.33	24.54	25.31	26.75	27.35	29.13	30.27
5	30.11	31.01	31.82	29.67	25.13	25.40	24.29	25.31	26.83	27.65	29.16	30.33
6	30.17	31.02	31.80	28.68	25.47	25.43	24.29	25.40	26.64	27.98	29.16	30.38
7	30.20	31.08	31.58	27.43	25.31	25.14	24.32	25.46	27.06	28.01	29.21	30.09
8	30.23	30.83	31.58	26.68	25.25	25.28	24.33	25.56	27.11	27.57	29.27	30.47
9	30.21	31.08	31.55	26.25	25.07	25.33	24.02	25.29	27.17	28.14	29.28	30.45
10	30.32	31.11	31.56	26.24	25.46	25.25	24.42	25.35	27.21	28.18	29.34	30.54
11	30.08	31.17	31.61	26.15	24.97	25.37	24.68	25.33	27.23	27.98	29.34	30.58
12	30.03	31.23	31.61	25.88	25.01	25.33	24.21	25.43	27.29	28.02	29.42	30.24
13	30.11	31.22	31.86	25.50	25.01	25.55	24.78	25.52	27.29	28.29	29.55	30.58
14	30.15	31.22	31.88	25.31	24.72	25.56	24.39	25.50	27.15	28.40	29.60	30.83
15	30.20	31.20	31.52	25.01	25.08	25.67	24.93	25.58	26.73	28.43	29.65	30.88
16	30.24	31.23	31.40	24.83	25.11	25.44	24.90	25.80	26.73	28.47	29.58	30.69
17	30.23	31.25	31.50	24.45	24.74	25.49	24.96	25.93	26.75	28.23	29.54	30.99
18	30.53	31.32	31.47	24.65	24.75	25.88	24.38	25.95	26.79	27.92	29.24	30.69
19	30.54	31.13	31.26	24.89	24.71	25.86	24.41	25.92	26.85	28.38	29.60	30.83
20	30.57	31.13	31.31	24.47	24.65	25.88	24.42	26.24	27.17	28.41	29.36	30.88
21	30.62	31.17	31.35	24.53	24.92	25.76	24.84	26.21	27.58	28.10	29.75	30.87
22	30.60	31.46	31.40	24.54	24.99	26.15	24.45	26.24	27.62	28.52	29.83	31.20
23	30.63	31.46	31.31	25.04	24.84	25.63	24.45	25.73	27.81	28.58	29.87	31.22
24	30.62	31.50	31.44	24.71	24.89	26.01	24.35	26.25	27.71	28.58	29.97	31.31
25	30.38	31.47	31.38	24.78	24.96	25.59	24.63	26.22	27.77	28.73	30.09	31.22
26	30.38	31.47	31.37	25.25	25.02	25.58	24.36	26.38	27.86	28.71	30.13	30.72
27	30.43	31.50	31.74	24.95	25.02	25.49	24.83	26.46	27.95	28.35	30.17	30.72
28	30.47	31.55	31.67	25.52	25.13	25.46	24.48	26.48	27.63	28.46	30.18	30.75
29	30.51	31.32	31.70	25.52	---	24.95	24.45	26.48	27.68	28.77	30.29	30.78
30	30.57	31.37	31.65	24.95	---	24.45	24.92	26.54	27.99	28.85	30.26	30.80
31	30.54	---	31.26	24.96	---	24.22	---	26.60	---	28.90	29.88	---
MAX	30.63	31.55	31.88	30.98	25.47	26.15	24.96	26.60	27.99	28.90	30.29	31.31
CAL YR 2004	LOW 31.88											
WTR YR 2005	LOW 31.88											



392939084231700. Local Number, BU-3

LOCATION.—Latitude 39°29'39", longitude 84°23'17", Butler County, Hydrologic Unit 05080002, Armco Steel Corp., Route 122 in Middletown, Ohio. Owner: Armco Steel Corp.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 24 in., depth 250 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 668 ft above sea level, from topographic map. Measuring point: Floor of instrument shelter 1.08 ft above land-surface datum.

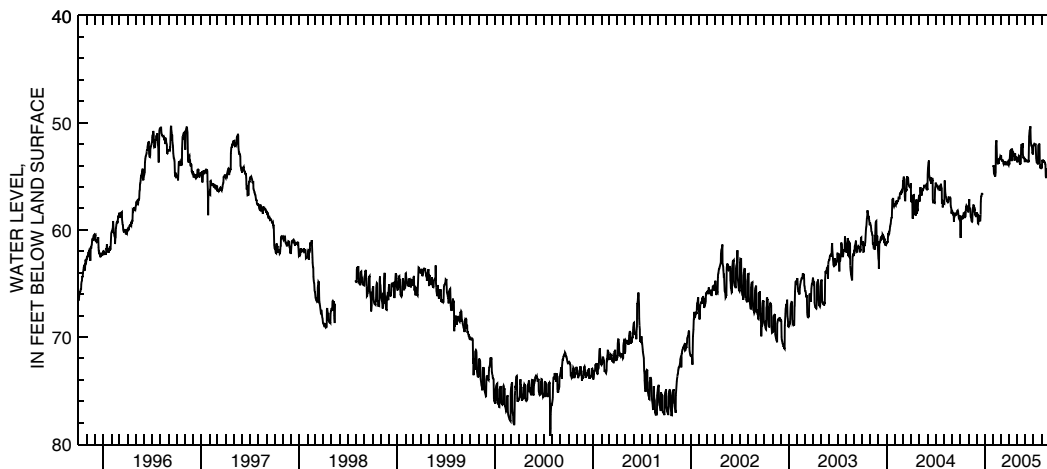
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 147.27 ft below land-surface datum, Apr. 4, 1955; minimum daily low, 45.27 ft below land-surface datum, July 21, 1980.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.66	58.28	58.68	---	54.14	53.23	53.75	53.35	53.41	52.10	54.20	54.72
2	60.42	58.17	58.37	---	54.06	53.24	53.85	53.70	53.46	52.08	54.19	54.88
3	60.77	57.53	58.50	---	53.99	53.06	53.85	53.23	53.48	52.01	53.46	54.99
4	58.98	57.15	58.64	---	54.70	53.47	53.35	53.32	53.54	51.97	53.51	55.10
5	58.81	57.90	58.68	---	54.85	53.53	52.85	53.67	53.57	52.02	53.61	55.16
6	58.78	58.00	59.41	---	54.88	53.56	52.63	53.24	53.55	52.09	53.57	55.39
7	58.78	58.18	59.44	---	54.86	53.57	52.57	53.11	53.53	52.06	53.56	55.26
8	58.80	58.33	58.91	---	55.02	53.55	52.58	53.16	53.62	52.02	53.64	55.27
9	58.87	58.82	58.70	---	54.93	53.53	52.47	53.50	53.64	52.03	53.61	55.97
10	58.95	58.74	58.75	---	54.63	53.59	53.60	53.66	53.64	52.38	53.61	54.19
11	58.94	58.94	59.01	---	52.18	53.83	53.51	53.82	53.62	53.30	53.75	54.30
12	58.67	59.14	59.00	---	51.80	53.91	52.43	53.94	53.49	53.53	53.66	55.21
13	58.55	59.25	59.11	---	51.65	53.84	52.60	53.82	53.70	53.67	53.76	55.09
14	58.47	59.26	59.22	---	52.40	53.78	52.75	53.81	52.19	53.78	53.87	55.10
15	58.49	59.20	59.14	---	53.40	53.63	52.75	53.79	51.26	53.72	53.93	55.22
16	58.59	58.07	58.57	---	53.52	53.71	53.03	52.31	50.95	53.70	54.99	55.10
17	58.69	57.96	57.40	---	53.44	53.71	53.05	52.10	50.72	53.83	55.18	55.23
18	58.91	57.92	56.90	---	53.82	53.84	52.99	52.01	50.62	53.84	55.02	55.23
19	58.32	57.72	56.89	---	53.82	53.88	53.20	52.17	50.48	52.18	54.92	56.69
20	58.82	57.72	56.77	---	53.71	53.87	53.12	52.36	50.33	52.07	54.30	54.78
21	58.48	57.82	56.57	---	53.77	53.80	53.19	52.32	51.64	52.04	54.39	54.73
22	58.29	57.98	56.73	---	53.78	53.95	53.54	51.92	51.96	52.01	54.52	55.02
23	57.85	58.17	56.58	---	53.52	53.88	53.05	52.94	52.10	52.01	54.40	55.40
24	57.76	58.12	---	---	53.30	53.86	52.88	53.19	52.21	52.04	54.51	55.00
25	57.78	58.57	---	---	53.35	53.98	53.35	53.32	52.24	53.89	54.42	55.06
26	58.05	58.58	---	---	53.47	53.83	53.36	53.19	52.26	54.09	54.30	55.18
27	58.14	58.46	---	---	53.26	53.67	53.27	53.27	52.77	54.27	54.40	55.22
28	58.14	58.67	---	---	53.17	53.64	53.31	53.34	52.75	54.09	54.45	54.49
29	58.06	58.81	---	---	---	53.88	53.27	53.42	52.83	54.13	54.56	54.51
30	58.15	58.57	---	---	---	53.95	53.30	53.69	52.96	54.19	54.52	53.79
31	58.38	---	---	---	---	53.98	---	53.43	---	54.12	54.67	---
MAX	60.77	59.26	59.44	---	55.02	53.98	53.85	53.94	53.70	54.27	55.18	56.69
CAL YR 2004	LOW 61.26											
WTR YR 2005	LOW 60.77											



393202084241500. Local Number, BU-15

LOCATION.—Latitude 39°32'02", longitude 84°24'15", Butler County, Hydrologic Unit 05080002, at Hook Field (municipal airport) at Middletown, Ohio.
Owner: City of Middletown.

AQUIFER.—Sand and gravel of Pleistocene Age.

INSTRUMENTATION.—Periodic measurement with chalked tape by Ohio Department of Natural Resources personnel.

WELL CHARACTERISTICS.—Drilled observation water table well, diameter 6 in., depth 23 ft, cased.

DATUM.—Elevation of land-surface datum is 641 ft, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. Water level affected by pumping wells nearby in Middletown well field.

PERIOD OF RECORD.—June 1972 to October 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum measured low, 15.72 ft below land-surface datum, Oct. 24, 1994; minimum daily low, 0.06 ft below land-surface datum, Feb. 25, 1975.

WATER LEVEL,
IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
Oct. 27, 2004	13.53
Apr. 26, 2005	8.55
July 20, 2005	12.52

Ground-Water Records—Carroll County

403709081052800. Local Number, C-1

LOCATION.—Latitude 40°37'09", longitude 81°05'28", Carroll County, Hydrologic Unit 05040001, State Route 171, 3 mi north of Carrollton, Ohio. Owner: Village of Carrollton.

AQUIFER.—Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 10 in., depth 70 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,050 ft above sea level (from topographic map). Measuring point: Top of platform 3 ft above land-surface datum.

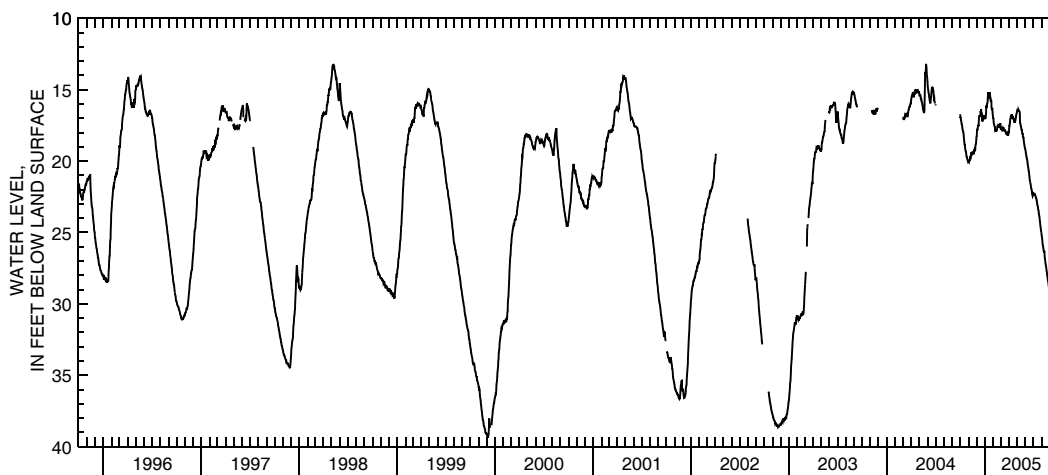
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 41.05 ft below land-surface datum, Dec. 5, 1971; minimum daily low, 7.20 ft below land-surface datum, Jan. 10 and 14, 1971.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.72	20.06	18.29	17.07	17.00	17.72	17.94	16.56	19.18	22.27	25.20	29.35
2	16.98	20.05	18.26	16.92	17.01	17.72	17.56	16.46	19.28	22.31	25.31	29.42
3	16.93	20.07	17.89	16.92	17.27	17.74	17.55	16.48	19.40	22.29	25.49	29.48
4	17.13	19.94	17.80	16.94	17.38	17.64	17.41	16.53	19.55	22.30	25.64	29.58
5	17.25	20.01	17.80	16.68	17.51	17.78	17.21	16.45	19.63	22.30	25.85	29.63
6	17.35	19.81	17.56	16.12	17.60	17.69	17.09	16.39	19.73	22.34	26.01	29.68
7	17.45	19.85	17.46	16.26	17.67	17.66	16.91	16.48	19.86	22.36	26.12	29.70
8	17.51	19.88	17.57	16.13	17.81	17.91	16.94	16.50	20.00	22.42	26.28	29.73
9	17.71	19.77	17.30	16.02	17.78	17.82	16.90	16.51	20.13	22.49	26.36	29.86
10	17.86	19.65	16.88	15.94	17.92	17.67	16.87	16.53	20.29	22.55	26.36	29.92
11	17.89	19.39	16.89	15.78	17.88	17.64	16.85	16.65	20.42	22.57	26.36	30.02
12	17.94	19.48	16.88	15.54	17.86	17.79	16.73	17.29	20.50	22.68	26.71	30.06
13	18.06	19.53	16.86	15.19	17.89	17.82	16.89	17.37	20.66	22.76	26.84	30.10
14	18.21	19.50	16.86	15.65	17.87	17.82	16.89	17.46	20.76	22.85	27.02	30.22
15	18.47	19.40	16.73	15.57	17.81	17.88	17.01	17.56	20.92	22.98	27.12	30.30
16	18.69	19.39	16.50	15.18	17.63	17.79	17.04	17.65	21.08	23.07	27.28	30.38
17	18.85	19.40	16.59	15.27	17.58	17.88	17.00	17.75	21.25	23.17	27.41	30.48
18	18.86	19.43	16.36	15.41	17.60	17.92	17.03	17.84	21.37	23.26	27.47	30.61
19	19.06	19.42	16.72	15.19	17.57	17.92	17.09	17.84	21.49	23.40	27.67	30.68
20	19.17	19.49	16.71	15.32	17.48	18.00	17.24	18.05	21.57	23.48	27.77	30.74
21	19.29	19.49	16.93	15.54	17.51	18.05	17.29	18.10	21.65	23.58	27.93	30.82
22	19.34	19.29	17.16	15.59	17.53	18.03	17.16	18.10	21.86	23.76	28.07	30.88
23	19.38	19.19	17.23	15.83	17.56	18.04	17.31	18.26	21.90	23.89	28.21	31.06
24	19.61	19.15	17.14	15.71	17.51	18.19	17.12	18.35	21.98	23.99	28.37	31.11
25	19.69	19.31	16.90	15.79	17.52	18.11	17.13	18.36	22.09	24.15	28.43	31.17
26	19.73	19.24	16.91	16.23	17.65	18.12	16.98	18.50	22.26	24.35	28.56	31.32
27	19.86	18.87	17.07	16.38	17.55	18.05	16.92	18.71	22.36	24.52	28.70	31.40
28	19.90	18.82	16.77	16.39	17.34	18.07	16.81	18.85	22.43	24.65	28.87	31.40
29	19.93	18.78	16.86	16.29	---	18.23	16.67	18.94	22.41	24.77	28.97	31.52
30	20.01	18.48	16.89	16.66	---	17.99	16.61	19.04	22.35	24.91	29.02	31.51
31	20.08	---	16.90	16.75	---	18.05	---	19.13	---	25.02	29.29	---
MAX	20.08	20.07	18.29	17.07	17.92	18.23	17.94	19.13	22.43	25.02	29.29	31.52
CAL YR 2004	LOW 20.08											
WTR YR 2005	LOW 31.52											



Ground-Water Records—Champaign County

400638083453900. Local Number, CH-3

LOCATION.—Latitude 40°06'38", longitude 83°45'39", Champaign County, Hydrologic Unit 05080001, in Urbana, Ohio. Owner: Howard Paper Company.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 8 in., depth 40 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,030 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.5 ft above land-surface datum.

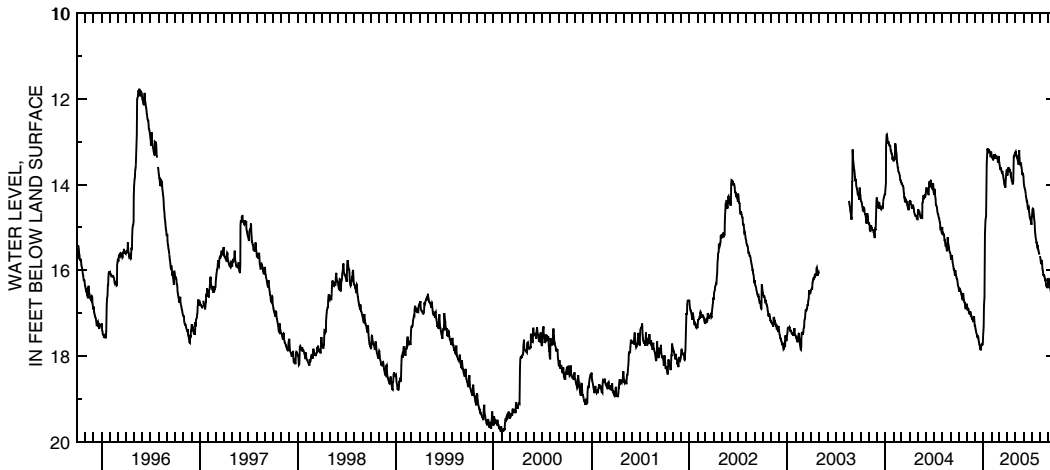
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 24.80 ft below land-surface datum, Feb. 26 to Mar. 4, 1964; minimum daily low, 11.76 ft below land-surface datum, May 20, 1996.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.40	16.78	17.29	17.49	13.32	13.44	13.79	13.24	13.92	14.77	15.67	16.26
2	16.45	16.86	17.31	17.38	13.36	13.49	13.76	13.23	14.00	14.74	15.71	16.29
3	16.49	16.90	17.35	17.30	13.37	13.53	13.62	13.27	14.03	14.62	15.76	16.29
4	16.41	16.90	17.38	16.82	13.39	13.56	13.61	13.32	14.07	14.57	15.81	16.25
5	16.43	16.91	17.42	16.63	13.41	13.64	13.61	13.32	14.10	14.56	15.86	16.23
6	16.47	16.90	17.47	15.85	13.42	13.64	13.66	13.32	14.12	14.57	15.78	16.35
7	16.47	16.91	17.49	15.14	13.42	13.60	13.65	13.37	14.17	14.59	15.78	16.41
8	16.48	16.98	17.51	14.97	13.37	13.63	13.67	13.37	14.22	14.68	15.82	16.43
9	16.50	17.00	17.54	14.85	13.31	13.67	13.70	13.42	14.27	14.78	15.95	16.46
10	16.53	17.00	17.57	14.77	13.31	13.68	13.63	13.46	14.31	14.82	15.98	16.50
11	16.57	17.03	17.59	14.75	13.33	13.71	13.68	13.48	14.35	14.87	16.01	16.51
12	16.59	17.01	17.52	14.17	13.33	13.72	13.71	13.52	14.39	15.03	16.05	16.56
13	16.60	17.03	17.56	13.79	13.40	13.68	13.78	13.54	14.39	15.11	16.12	16.60
14	16.65	16.96	17.61	13.50	13.35	13.74	13.77	13.25	14.43	15.16	16.10	16.68
15	16.66	17.05	17.66	13.35	13.36	13.77	13.82	13.20	14.50	15.21	16.12	16.70
16	16.70	17.05	17.67	13.20	13.36	13.79	13.84	13.39	14.55	15.26	16.12	16.71
17	16.57	17.07	17.72	13.16	13.33	13.84	13.90	13.49	14.58	15.30	16.14	16.45
18	16.53	17.07	17.73	13.21	13.34	13.88	13.90	13.53	14.53	15.35	16.17	16.50
19	16.62	17.10	17.76	13.19	13.34	13.92	13.95	13.55	14.52	15.35	16.20	16.59
20	16.66	17.13	17.84	13.19	13.35	13.97	13.98	13.48	14.55	15.40	16.25	16.66
21	16.70	17.13	17.81	13.23	13.38	14.01	13.98	13.50	14.64	15.40	16.19	16.68
22	16.74	17.15	17.85	13.22	13.39	14.01	13.98	13.52	14.70	15.49	16.27	16.72
23	16.76	17.16	17.85	13.23	13.41	14.01	13.92	13.57	14.74	15.41	16.36	16.75
24	16.76	17.21	17.77	13.22	13.43	14.06	13.49	13.61	14.78	15.50	16.37	16.68
25	16.79	17.12	17.75	13.23	13.48	14.07	13.35	13.67	14.80	15.51	16.39	16.48
26	16.87	17.11	17.74	13.24	13.40	13.88	13.35	13.72	14.80	15.55	16.39	16.47
27	16.86	17.08	17.73	13.28	13.38	13.79	13.31	13.78	14.83	15.57	16.40	16.40
28	16.87	17.07	17.74	13.33	13.33	13.74	13.30	13.74	14.90	15.61	16.40	16.48
29	16.89	17.17	17.74	13.36	---	13.67	13.27	13.74	14.90	15.61	16.40	16.52
30	16.90	17.29	17.73	13.27	---	13.67	13.26	13.77	14.94	15.63	16.40	16.57
31	16.82	---	17.67	13.23	---	13.74	---	13.82	---	---	16.18	---
MAX	16.90	17.29	17.85	17.49	13.48	14.07	13.98	13.82	14.94	15.63	16.40	16.75
CAL YR 2004	LOW 17.85											
WTR YR 2005	LOW 17.85											



Ground-Water Records—Clark County

395639084012200. Local Number, CL-9

LOCATION.—Latitude 39°56'39", longitude 84°01'22", Clark County, Hydrologic Unit 05080001, at north edge of New Carlisle, Ohio. Owner: City of New Carlisle.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 12 in., depth 113 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 900 ft above sea level (from topographic map). Measuring point: Top of platform 2.5 ft above land-surface datum.

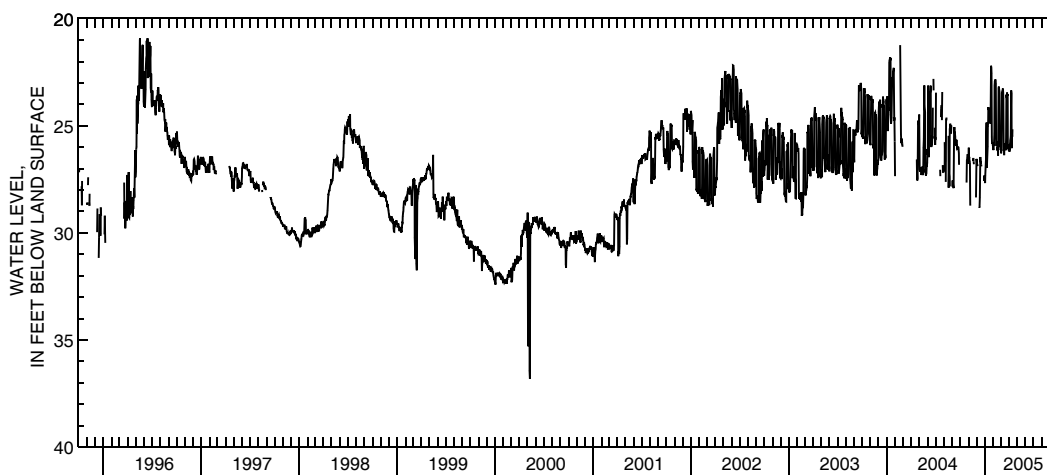
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 36.82 ft below land-surface datum, May 10, 2000; minimum daily low, 18.20 ft below land-surface datum, July 4, 1980.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	26.64	26.55	27.51	25.97	26.13	25.88	---	---	---	---	---
2	---	26.03	26.65	27.68	26.14	26.08	26.08	---	---	---	---	---
3	---	26.55	26.85	27.31	25.88	26.29	26.22	---	---	---	---	---
4	---	26.45	26.82	26.98	25.96	26.15	26.10	---	---	---	---	---
5	---	26.62	26.89	26.45	25.35	24.06	25.85	---	---	---	---	---
6	---	26.71	---	25.41	23.12	23.47	25.68	---	---	---	---	---
7	---	28.71	---	24.85	22.91	23.35	25.49	---	---	---	---	---
8	---	28.73	---	26.97	23.07	23.31	25.18	---	---	---	---	---
9	---	---	---	26.78	22.84	23.27	23.35	---	---	---	---	---
10	---	28.81	---	26.40	23.09	23.46	23.50	---	---	---	---	---
11	---	---	28.79	25.97	23.13	23.74	26.05	---	---	---	---	---
12	---	---	28.82	25.05	25.94	26.17	25.45	---	---	---	---	---
13	---	---	28.35	24.82	25.82	26.10	25.52	---	---	---	---	---
14	---	---	26.96	24.13	25.83	26.37	25.17	---	---	---	---	---
15	---	28.80	26.46	24.27	25.79	25.87	---	---	---	---	---	---
16	---	---	26.69	24.20	25.80	---	---	---	---	---	---	---
17	---	26.59	26.71	24.37	26.16	26.00	---	---	---	---	---	---
18	---	26.63	26.81	24.52	25.98	25.81	---	---	---	---	---	---
19	---	26.51	26.90	24.62	26.39	26.02	---	---	---	---	---	---
20	---	26.67	---	24.74	25.59	26.15	---	---	---	---	---	---
21	28.72	26.80	---	24.87	23.25	25.63	---	---	---	---	---	---
22	---	---	---	24.91	23.18	23.55	---	---	---	---	---	---
23	---	---	---	24.33	23.26	23.63	---	---	---	---	---	---
24	---	---	---	22.20	23.38	23.61	---	---	---	---	---	---
25	27.66	---	---	22.29	23.48	23.45	---	---	---	---	---	---
26	26.61	---	---	22.55	25.99	23.60	---	---	---	---	---	---
27	26.55	---	---	25.53	25.86	23.53	---	---	---	---	---	---
28	26.51	---	---	25.81	25.99	25.94	---	---	---	---	---	---
29	26.33	28.35	27.57	25.81	---	26.02	---	---	---	---	---	---
30	26.56	26.88	27.33	25.84	---	25.99	---	---	---	---	---	---
31	26.78	---	27.54	25.91	---	26.09	---	---	---	---	---	---
MAX	28.72	28.81	28.82	27.68	26.39	26.37	26.22	---	---	---	---	---
CAL YR 2004	LOW 28.82											
WTR YR 2005	LOW 28.82											



395840083495200. Local Number, CL-7

LOCATION.—Latitude 39°58'40", longitude 83°49'52", Clark County, Hydrologic Unit 05080001. Eagle City Road northwest of Springfield, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 50 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 928.02 ft. Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

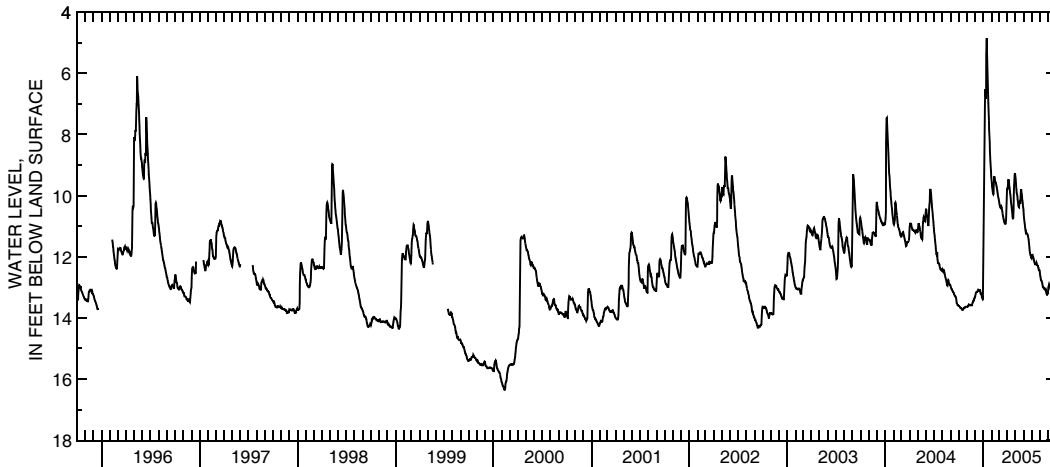
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 30.17 ft below land-surface datum, Feb. 18, 19, 1961; minimum daily low, 4.86 ft below land-surface datum, Jan. 14, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.61	13.64	13.31	13.07	9.49	10.19	9.80	9.38	10.60	12.00	12.57	13.02
2	13.61	13.63	13.29	12.66	9.59	10.25	9.77	9.46	10.73	11.95	12.64	12.95
3	13.61	13.63	13.25	12.42	9.69	10.29	9.70	9.61	10.78	11.94	12.68	12.92
4	13.62	13.63	13.22	11.64	9.81	10.33	9.53	9.72	10.87	11.94	12.74	12.90
5	13.63	13.61	13.17	10.49	9.89	10.38	9.47	9.81	10.94	11.98	12.78	12.95
6	13.66	13.59	13.16	8.40	9.94	10.39	9.52	9.91	11.05	12.02	12.79	13.00
7	13.67	13.56	13.15	6.94	9.96	10.35	9.60	9.97	11.13	12.05	12.80	13.02
8	13.68	13.57	13.16	6.67	9.93	10.34	9.69	10.04	11.19	12.08	12.84	13.05
9	13.68	13.57	13.15	6.52	9.63	10.36	9.76	10.13	11.18	12.12	12.89	13.06
10	13.68	13.57	13.12	6.74	9.44	10.38	9.85	10.20	11.22	12.16	12.94	13.09
11	13.69	13.59	13.11	6.84	9.37	10.39	9.92	10.28	11.24	12.21	12.99	13.10
12	13.72	13.59	13.11	5.40	9.41	10.48	9.98	10.35	11.24	12.23	12.99	13.15
13	13.73	13.59	13.08	5.05	9.47	10.54	10.09	10.38	11.25	12.24	13.02	13.19
14	13.74	13.59	13.09	4.86	9.54	10.59	10.17	10.39	11.26	12.25	13.03	13.22
15	13.74	13.59	13.09	5.22	9.55	10.65	10.27	10.31	11.28	12.27	13.04	13.24
16	13.73	13.59	13.11	5.58	9.57	10.69	10.34	10.21	11.30	12.23	13.04	13.25
17	13.73	13.59	13.11	5.96	9.58	10.74	10.40	10.19	11.34	12.21	13.03	13.13
18	13.73	13.59	13.11	6.28	9.63	10.78	10.49	10.24	11.39	12.19	13.05	13.05
19	13.70	13.59	13.09	6.64	9.69	10.82	10.59	10.27	11.44	12.23	13.07	13.05
20	13.68	13.57	13.09	6.98	9.71	10.86	10.68	10.12	11.49	12.25	13.09	13.05
21	13.67	13.53	13.14	7.27	9.78	10.89	10.75	9.88	11.59	12.27	13.07	13.04
22	13.67	13.52	13.19	7.56	9.84	10.91	10.75	9.80	11.70	12.29	13.06	13.05
23	13.67	13.48	13.21	7.85	9.89	10.91	10.73	9.83	11.78	12.30	13.12	13.07
24	13.67	13.47	13.21	8.06	9.95	10.92	10.45	9.93	11.87	12.30	13.19	13.07
25	13.66	13.44	13.25	8.26	9.99	10.92	10.01	9.99	11.93	12.35	13.22	13.03
26	13.64	13.44	13.26	8.55	10.07	10.90	9.68	10.07	11.94	12.37	13.25	13.00
27	13.64	13.41	13.31	8.77	10.09	10.78	9.50	10.16	11.98	12.43	13.25	12.95
28	13.64	13.37	13.31	8.89	10.12	10.64	9.35	10.24	12.01	12.44	13.21	12.86
29	13.64	13.37	13.37	9.05	---	10.20	9.27	10.32	12.03	12.45	13.21	12.83
30	13.64	13.34	13.39	9.22	---	9.90	9.31	10.40	12.05	12.45	13.19	12.82
31	13.64	---	13.38	9.37	---	9.79	---	10.48	---	12.50	13.10	---
MAX	13.74	13.64	13.39	13.07	10.12	10.92	10.75	10.48	12.05	12.50	13.25	13.25
CAL YR 2004	LOW 13.74											
WTR YR 2005	LOW 13.74											



Ground-Water Records—Coshocton County

401256081525100. Local Number, CS-3

LOCATION.—Latitude 40°12'56", longitude 81°52'51", Coshocton County, Hydrologic Unit 05040004, 1.5 mi north of Conesville, Ohio. Owner: Universal Cyclops Corp.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 8 in., depth 110 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 745 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.8 ft above land-surface datum.

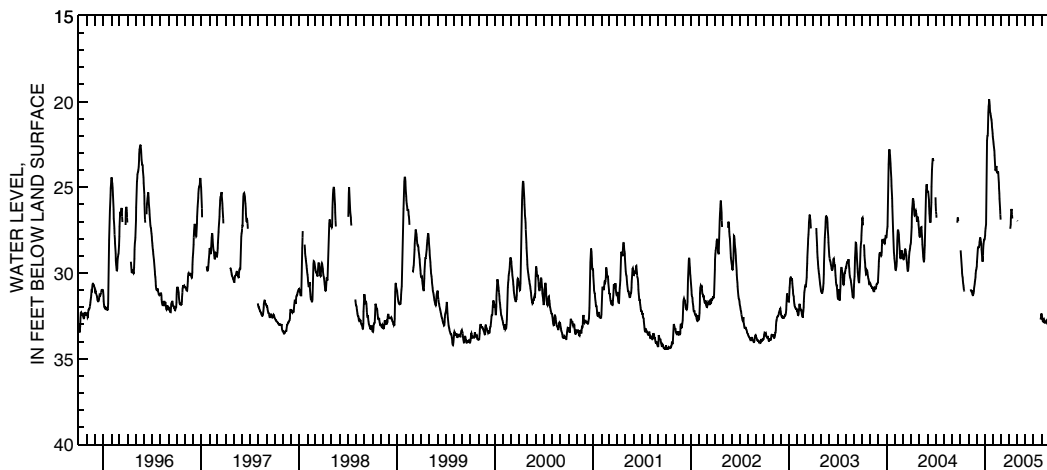
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 36.86 ft below land-surface datum, Sept. 28, 1973; minimum daily low, 19.86 ft below land-surface datum, Jan. 17, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.08	---	29.71	27.97	22.19	26.89	---	---	---	---	32.43	33.09
2	---	---	29.63	27.81	22.36	---	---	26.94	---	---	32.52	32.55
3	28.68	---	29.36	27.59	22.47	---	---	26.97	---	---	32.59	31.93
4	28.99	---	29.02	27.39	22.65	---	---	---	---	---	32.68	31.38
5	29.25	---	28.75	27.16	22.88	---	---	---	---	---	32.81	31.13
6	29.53	---	28.54	26.40	23.12	---	27.42	---	---	---	32.85	31.26
7	29.77	---	28.49	24.96	23.41	---	27.18	---	---	---	32.85	31.44
8	30.01	30.96	28.49	23.08	23.76	---	26.79	---	---	---	32.73	31.51
9	30.19	30.99	28.50	22.28	24.00	---	26.44	---	---	---	32.70	31.56
10	30.29	31.04	28.48	22.01	24.01	---	26.26	---	---	---	32.73	31.86
11	30.46	31.06	28.37	21.99	23.94	---	26.38	---	---	---	32.81	31.98
12	30.63	31.05	28.21	21.85	23.84	---	26.58	---	---	---	32.90	32.17
13	30.76	31.05	28.08	21.22	23.76	---	26.82	---	---	---	32.90	32.35
14	30.88	31.08	27.93	20.65	23.96	---	---	---	---	---	32.89	32.45
15	31.01	31.26	27.97	20.28	24.12	---	---	---	---	---	32.89	32.54
16	31.08	31.30	28.04	20.09	24.15	---	---	---	---	---	32.88	32.66
17	---	31.30	28.16	19.86	24.15	---	---	---	---	---	32.82	32.66
18	---	31.28	28.27	20.02	24.11	---	---	---	---	---	32.80	32.65
19	---	31.23	28.41	20.23	24.07	---	---	---	---	---	32.87	32.73
20	---	31.18	28.64	20.49	24.16	---	---	---	---	---	32.91	32.83
21	---	31.06	28.95	20.66	24.43	---	---	---	---	---	32.94	32.86
22	---	30.90	29.20	20.71	24.75	---	---	---	---	---	32.96	32.93
23	---	30.77	29.30	20.81	25.07	---	---	---	---	---	32.99	32.97
24	---	30.64	29.30	20.92	25.34	---	---	---	---	---	32.99	32.97
25	---	30.52	28.97	21.02	25.68	---	---	---	---	---	33.02	32.95
26	---	30.41	28.59	21.09	26.02	---	---	---	---	---	33.02	32.90
27	---	30.24	28.31	21.27	26.31	---	---	---	---	---	33.03	32.89
28	---	30.03	28.17	21.48	26.59	---	---	---	---	32.72	33.03	32.87
29	---	29.87	28.09	21.64	---	---	---	---	---	32.67	33.11	32.72
30	---	29.79	28.06	21.86	---	---	---	---	---	32.52	33.20	32.57
31	---	---	28.06	22.06	---	---	---	---	---	32.37	33.20	---
MAX	31.08	31.30	29.71	27.97	26.59	26.89	27.42	26.97	---	32.72	33.20	33.09
CAL YR 2004		LOW 31.30										
WTR YR 2005		LOW 33.20										



401734081523800. Local Number, CS-2A

LOCATION.—Latitude 40°17'34", longitude 81°52'38", Coshocton County, Hydrologic Unit 05040003, at Coshocton, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test well, diameter 6 in., depth 86 ft, cased to 81 ft.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 740 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 8.50 ft above land-surface datum.

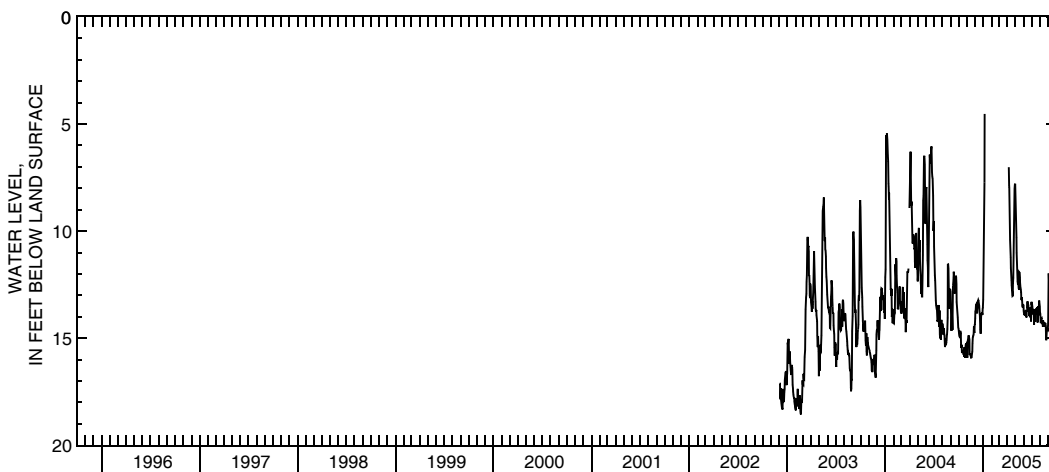
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 18.56 ft below land-surface datum, Feb. 21, 2003; minimum measured low, 2.41 ft below land-surface datum, Jan. 16, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.56	15.36	14.38	13.20	---	---	---	8.12	13.72	13.43	13.78	12.90
2	14.69	15.86	14.07	12.29	---	---	---	8.78	13.86	13.37	13.87	11.98
3	14.79	15.92	13.75	11.68	---	---	---	9.29	13.92	13.52	14.18	12.28
4	14.91	15.27	13.70	9.29	---	---	---	9.83	13.79	13.61	14.29	13.08
5	14.95	15.10	13.43	7.72	---	---	---	10.31	13.77	13.68	14.07	13.39
6	14.96	14.97	13.40	4.53	---	---	7.02	11.02	13.92	13.69	14.06	13.98
7	14.65	14.87	13.53	---	---	---	7.86	11.52	13.93	13.90	14.30	14.22
8	14.74	14.91	13.84	---	---	---	7.98	11.98	13.71	13.64	14.32	14.26
9	14.79	14.98	13.72	---	---	---	8.87	12.35	13.94	14.37	14.30	13.88
10	15.41	15.06	13.58	---	---	---	9.64	12.47	14.00	14.05	14.18	14.01
11	15.44	15.74	13.41	---	---	---	10.40	12.48	14.00	13.90	14.47	14.60
12	15.30	15.74	13.28	2.50	---	---	10.80	12.47	13.70	14.07	14.16	14.59
13	15.65	15.76	13.23	---	---	---	11.23	12.69	13.77	13.98	14.22	14.05
14	15.65	15.79	13.27	---	---	---	11.72	12.74	13.48	14.23	14.29	14.44
15	15.60	15.84	13.33	---	---	---	12.05	11.92	13.28	14.07	14.29	14.70
16	15.60	15.87	13.44	2.41	---	---	12.31	11.94	13.60	13.80	14.29	14.55
17	15.61	15.90	13.47	---	---	---	12.52	12.16	13.39	13.68	14.41	14.57
18	15.63	15.89	13.77	---	---	---	12.75	12.36	13.46	13.61	14.46	14.01
19	15.69	15.86	13.91	---	---	---	12.87	12.55	13.65	13.90	14.28	14.52
20	15.78	15.72	14.12	---	---	---	13.03	12.64	13.65	13.59	14.33	14.59
21	15.51	15.63	14.59	---	---	---	13.01	12.72	13.92	13.59	14.33	14.82
22	15.88	15.26	14.79	---	---	---	12.45	12.86	13.94	14.23	14.40	14.82
23	15.41	14.95	14.69	---	---	---	12.19	13.16	13.67	14.23	14.97	14.65
24	15.69	14.90	13.99	---	---	---	10.91	13.22	13.73	13.52	15.09	14.45
25	15.43	14.88	13.85	---	---	---	9.83	13.09	13.76	13.62	14.86	14.34
26	15.92	14.83	13.84	---	---	---	9.07	13.23	13.77	13.93	14.62	14.35
27	15.37	14.46	13.85	---	---	---	8.53	13.48	13.55	13.75	14.62	14.26
28	15.29	14.64	13.81	---	---	---	8.02	13.56	14.22	13.31	14.62	14.19
29	15.27	14.76	13.91	---	---	---	7.82	13.41	13.89	13.24	14.57	13.80
30	15.27	14.36	13.59	---	---	---	7.79	13.44	13.30	13.38	14.59	13.90
31	15.26	---	13.57	---	---	---	---	13.46	---	13.53	14.28	---
MAX	15.92	15.92	14.79	13.20	---	---	13.03	13.56	14.22	14.37	15.09	14.82
CAL YR 2004	LOW 15.92											
WTR YR 2005	LOW 15.92											



Ground-Water Records—Darke County

400514084345700. Local Number, D-2

LOCATION.—Latitude 40°05'14", longitude 84°34'57", Darke County, Hydrologic Unit 05080001, State Route 571, 3 mi east of Greenville, Ohio. Owner: City of Greenville.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 70 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,038 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

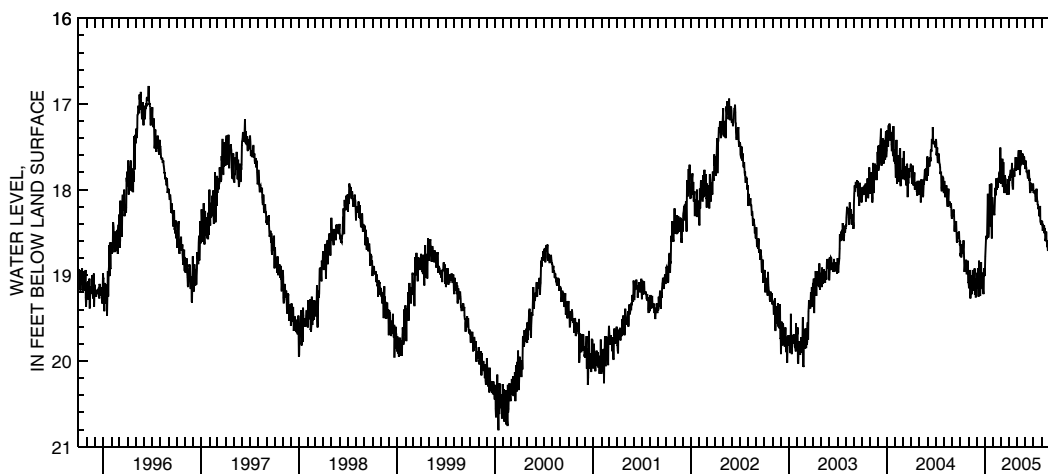
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 20.87 ft below land-surface datum, Apr. 12, 1992; minimum daily low, 16.72 ft below land-surface datum, Feb. 13, Mar. 27, 1991.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.60	19.08	19.15	19.01	18.28	17.90	18.05	17.65	17.71	17.95	18.37	18.84
2	18.78	19.11	19.15	18.88	18.27	17.91	17.84	17.63	17.68	18.04	18.38	18.83
3	18.74	19.15	19.04	18.78	18.20	17.93	17.89	17.70	17.66	18.01	18.37	18.83
4	18.76	19.01	18.97	18.71	18.27	17.77	17.90	17.77	17.73	18.04	18.42	18.84
5	18.79	19.10	19.10	18.56	18.30	17.91	17.83	17.72	17.75	18.01	18.48	18.84
6	18.76	18.94	18.92	18.54	18.21	17.89	17.83	17.60	17.80	18.05	18.44	18.80
7	18.72	19.19	19.09	18.58	18.10	17.64	17.77	17.54	17.78	18.04	18.43	18.77
8	18.64	19.27	19.25	18.56	18.01	17.96	17.86	17.63	17.81	18.08	18.44	18.70
9	18.70	19.18	19.01	18.55	17.98	17.96	17.84	17.57	17.83	18.14	18.43	18.79
10	18.75	19.01	18.83	18.41	18.06	17.80	17.82	17.60	17.87	18.12	18.42	18.87
11	18.72	19.00	19.05	18.26	18.06	17.68	17.79	17.75	17.86	18.04	18.51	18.87
12	18.67	19.15	19.05	18.05	17.87	17.90	17.69	17.83	17.82	17.99	18.45	18.80
13	18.59	19.22	19.21	18.24	17.90	18.02	17.92	17.73	17.78	18.00	18.47	18.76
14	18.63	19.19	19.24	18.56	17.99	18.01	17.95	17.54	17.78	18.08	18.58	18.84
15	18.76	19.09	19.22	18.51	18.00	18.04	17.99	17.68	17.81	18.12	18.60	18.90
16	18.88	18.96	18.96	18.22	17.94	18.01	17.99	17.70	17.90	18.14	18.58	18.86
17	18.96	18.94	18.99	18.20	17.90	17.83	17.84	17.69	17.87	18.18	18.55	18.88
18	18.92	18.97	18.85	18.23	17.98	17.87	17.80	17.69	17.99	18.17	18.49	18.90
19	18.85	18.97	19.09	17.94	17.95	17.88	17.81	17.58	18.04	18.22	18.60	18.90
20	18.92	19.11	19.09	17.95	17.87	18.02	17.78	17.67	18.02	18.22	18.60	18.90
21	18.95	19.18	18.98	18.17	17.86	18.02	17.85	17.69	17.92	18.21	18.67	18.89
22	18.93	19.07	19.03	18.25	17.91	17.99	17.75	17.59	17.98	18.25	18.62	18.82
23	18.82	18.93	19.15	18.43	17.91	17.95	17.78	17.59	18.01	18.31	18.67	18.98
24	18.91	18.92	19.15	18.23	17.80	18.06	17.72	17.67	17.95	18.21	18.71	18.98
25	18.98	19.23	18.97	17.93	17.80	17.94	17.64	17.71	17.96	18.21	18.69	18.86
26	18.98	19.21	19.17	18.44	17.88	18.03	17.62	17.65	18.00	18.19	18.62	18.94
27	18.97	19.04	19.22	18.57	17.86	17.95	17.77	17.61	18.00	18.37	18.67	18.99
28	18.97	19.25	19.02	18.47	17.51	17.88	17.77	17.63	17.95	18.38	18.73	18.86
29	18.83	19.25	18.92	18.09	---	18.02	17.64	17.70	17.95	18.39	18.81	19.03
30	18.93	19.04	18.94	18.18	---	17.90	17.63	17.69	17.93	18.41	18.68	18.94
31	19.08	---	18.93	18.25	---	18.05	---	17.76	---	18.36	18.80	---
MAX	19.08	19.27	19.25	19.01	18.30	18.06	18.05	17.83	18.04	18.41	18.81	19.03
CAL YR 2004		LOW 19.27										
WTR YR 2005		LOW 19.27										



Ground-Water Records—Delaware County

402126083040400. Local Number, DL-3

LOCATION.—Latitude 40°21'26", longitude 83°04'04", Delaware County, Hydrologic Unit 05060001, east bank of Olentangy River at toe of Delaware dam.
 Owner: U.S. Army Corps of Engineers.

AQUIFER.—Limestone of Devonian Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 12 in., depth 135 ft, cased.

INSTRUMENTATION.—Type F continuous recorder.

DATUM.—Elevation of land-surface datum is 900 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.60 ft above land-surface datum.

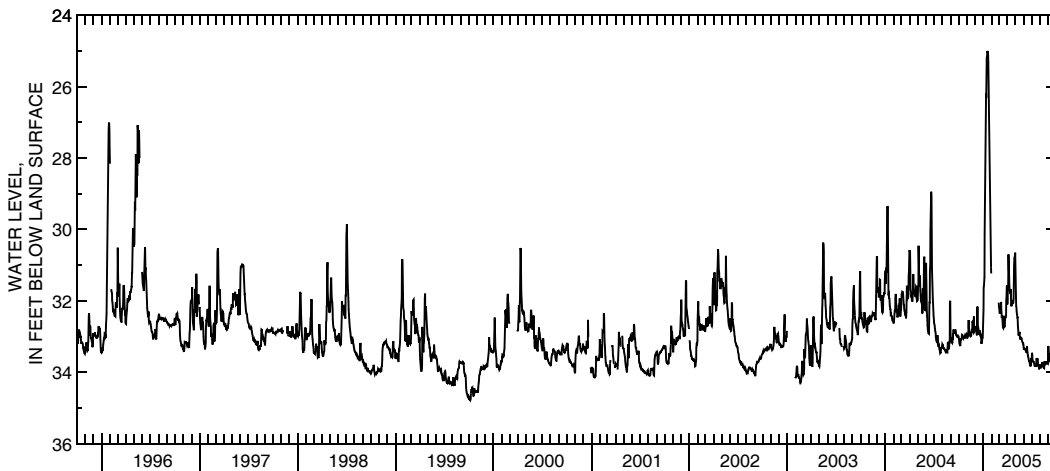
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—October 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 37.04 ft below land-surface datum, Nov. 1, 1948, Dec. 2, 3, 1949; minimum daily low, 20.43 ft below land-surface datum, Jan. 27, 1959.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.00	32.98	32.80	32.54	---	32.18	32.10	30.94	33.33	33.68	33.89	33.26
2	33.06	33.04	32.71	32.25	---	32.23	31.94	31.54	33.37	33.46	33.80	33.42
3	33.07	33.05	32.72	31.63	---	32.31	31.68	31.86	33.35	33.51	33.80	33.56
4	33.20	32.97	32.75	31.56	---	32.30	31.61	32.14	33.33	33.64	33.84	33.63
5	33.23	33.00	32.79	31.33	---	32.34	30.70	32.19	33.34	33.69	33.85	33.68
6	33.25	32.92	32.73	30.14	---	32.34	31.11	32.30	33.35	33.71	33.81	33.70
7	33.26	32.54	32.93	29.86	---	32.25	31.28	32.40	33.39	33.71	33.80	33.70
8	33.17	32.76	32.97	29.41	---	32.03	31.50	32.47	33.40	33.71	33.80	33.60
9	33.08	32.84	32.72	28.83	---	32.24	31.67	32.47	33.40	33.76	33.71	33.49
10	33.08	32.86	32.16	28.04	---	32.35	31.74	32.71	33.44	33.78	33.73	33.49
11	33.07	32.89	32.73	26.18	---	32.48	31.79	32.81	33.44	33.81	33.83	33.50
12	33.05	32.94	32.73	26.32	---	32.40	31.80	32.95	33.40	33.80	33.84	33.50
13	32.98	32.99	32.75	25.43	---	32.51	31.67	32.95	33.26	33.81	33.85	33.49
14	32.95	33.00	32.80	25.18	---	32.56	31.82	32.91	33.42	33.80	33.87	33.49
15	32.96	32.99	32.95	25.16	---	32.75	32.12	32.93	33.45	33.82	33.88	33.50
16	33.00	32.97	32.89	25.00	---	32.76	32.15	32.87	33.52	33.83	33.89	33.48
17	33.04	32.96	32.91	25.03	---	32.77	32.10	33.00	33.55	33.83	33.71	33.45
18	33.05	32.90	32.82	25.04	---	32.72	32.06	33.03	33.58	33.81	33.71	33.46
19	32.99	32.83	32.91	25.12	---	32.42	32.03	33.02	33.63	33.60	33.77	33.53
20	33.01	32.84	32.93	25.31	---	32.58	32.04	33.02	33.67	33.75	33.80	33.69
21	33.03	32.76	32.96	25.51	---	32.74	32.05	33.06	33.69	33.75	33.76	33.56
22	33.03	32.57	32.95	25.80	---	32.58	32.07	33.06	33.69	33.61	33.70	33.55
23	32.99	32.62	33.00	26.12	---	32.45	32.06	33.03	33.73	33.72	33.77	33.58
24	32.97	32.56	33.01	26.52	---	32.48	31.94	33.06	33.77	33.80	33.74	33.52
25	32.99	32.60	33.20	26.89	---	32.47	31.77	33.11	33.80	33.83	33.75	33.47
26	33.00	32.58	33.16	27.16	---	32.45	31.00	33.13	33.84	33.83	33.75	33.30
27	33.02	32.44	33.16	28.50	---	32.41	30.80	33.16	33.79	33.84	33.74	33.33
28	33.01	32.88	33.07	30.03	32.05	32.00	30.78	33.19	33.79	33.90	33.73	33.14
29	32.94	32.87	33.04	30.50	---	31.85	30.80	33.18	33.60	33.90	33.75	33.55
30	32.93	32.78	33.03	31.06	---	31.57	30.65	33.19	33.64	33.82	33.76	33.66
31	32.96	---	32.87	31.23	---	31.90	---	33.25	---	33.83	33.50	---
MAX	33.26	33.05	33.20	32.54	32.05	32.77	32.15	33.25	33.84	33.90	33.89	33.70
CAL YR 2004	LOW 33.46											
WTR YR 2005	LOW 33.90											



round-Water Records—Fairfield County

393450082403600. Local Number, F-7

LOCATION.—Latitude 39°34'50", longitude 82°40'36", Fairfield County, Hydrologic Unit 05030204, southeast of Amanda, Ohio. Owner: Pine Grove Springs Water Company Inc.

AQUIFER.—Sandstone of Mississippian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 5 in., depth 120 ft, cased to 31 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 980 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

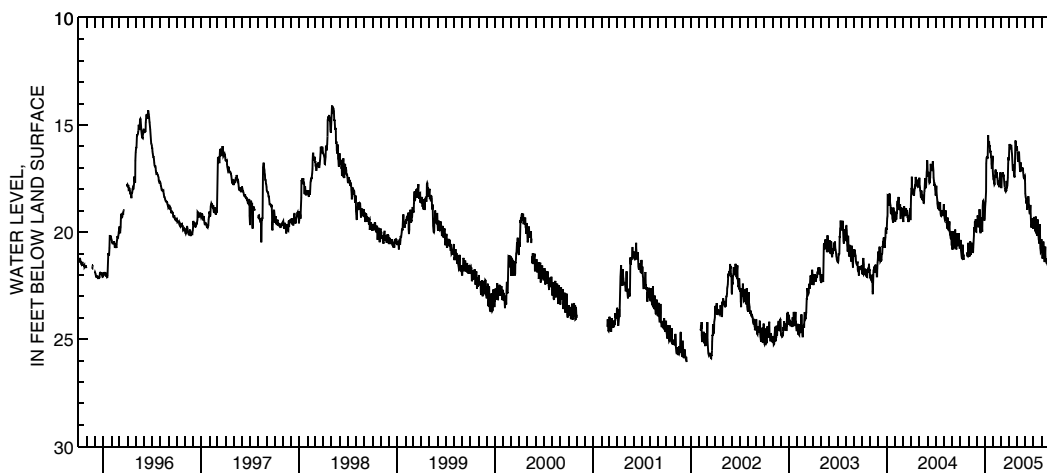
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 26.07 ft below land-surface datum, Dec. 16, 2001; minimum daily low, 12.38 ft below land-surface datum, Apr. 17, 1991.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.71	20.85	19.50	19.36	17.39	17.25	16.54	16.00	18.20	19.68	20.56	21.48
2	20.56	20.76	19.62	18.86	17.50	17.73	16.04	16.23	18.32	19.85	20.88	21.58
3	20.37	20.80	19.70	18.73	17.49	17.91	15.89	16.39	18.41	19.29	20.95	21.58
4	20.83	21.00	19.71	18.56	17.61	17.91	15.92	16.57	18.45	19.35	21.24	21.34
5	20.98	21.15	19.23	18.09	17.77	17.44	16.02	16.72	18.66	19.51	21.20	21.07
6	21.13	20.72	19.31	16.79	17.76	17.29	16.09	16.62	18.51	19.70	20.67	21.56
7	21.23	20.43	19.40	16.52	17.37	17.29	16.07	16.50	18.74	19.93	20.44	21.64
8	21.24	21.04	19.74	16.49	17.35	17.40	16.12	16.24	18.96	19.96	20.70	21.72
9	21.13	21.03	19.74	16.49	17.16	17.21	15.92	16.39	18.82	19.79	20.97	21.84
10	20.59	20.65	19.37	16.52	17.08	17.31	16.07	16.74	18.84	19.27	21.15	21.86
11	20.96	20.50	19.39	16.53	17.23	17.38	16.21	16.98	18.87	19.65	21.31	21.77
12	21.02	20.55	18.93	16.06	17.32	17.32	16.34	17.19	18.33	19.95	21.40	21.82
13	21.29	20.69	19.45	15.47	17.46	17.50	16.61	17.15	18.59	20.01	21.09	21.96
14	21.21	20.51	19.93	15.73	17.20	17.60	16.80	17.15	18.77	19.99	20.68	22.04
15	21.05	20.58	20.02	15.82	17.32	17.82	17.09	16.75	18.83	20.18	21.15	22.06
16	---	20.85	20.02	15.81	17.46	17.91	17.09	17.07	19.05	19.65	21.34	22.12
17	---	20.97	19.70	15.77	17.50	17.97	16.83	16.99	19.13	19.41	21.28	22.10
18	---	20.92	19.40	16.01	17.74	18.08	17.01	17.04	19.13	19.92	21.33	21.48
19	---	20.71	19.31	15.95	17.78	18.11	17.24	17.04	18.86	20.01	21.44	21.85
20	---	20.44	19.59	16.07	17.79	18.08	17.30	17.02	18.73	20.23	21.44	22.02
21	---	20.17	19.74	16.23	17.60	18.05	17.41	17.14	19.10	20.35	21.28	22.12
22	---	19.78	19.99	16.22	17.78	18.09	17.41	17.02	19.57	20.42	21.28	22.27
23	---	19.89	19.47	16.21	17.90	17.61	17.01	16.99	19.78	20.54	21.55	21.65
24	---	19.88	18.77	16.52	17.71	17.84	16.21	17.22	19.66	19.97	21.41	21.86
25	---	19.51	18.55	16.55	17.73	17.88	15.76	17.36	19.70	19.64	21.62	21.96
26	20.94	19.86	18.53	16.81	17.51	17.84	15.76	17.46	19.47	20.42	21.48	21.87
27	21.02	19.85	18.61	17.05	17.27	17.57	15.91	17.50	19.34	20.75	21.15	21.64
28	21.12	19.40	19.13	16.91	17.21	17.46	16.03	17.51	19.56	20.84	21.33	21.62
29	21.13	19.98	19.41	16.65	---	16.82	16.12	17.39	19.68	20.96	21.37	21.98
30	20.88	19.99	19.43	16.44	---	16.50	16.11	17.37	19.81	20.93	21.32	21.74
31	20.50	---	19.43	17.15	---	16.64	---	17.74	---	20.33	21.42	---
MAX	21.29	21.15	20.02	19.36	17.90	18.11	17.41	17.74	19.81	20.96	21.62	22.27
CAL YR 2004	LOW 21.29											
WTR YR 2005	LOW 22.27											



393913082330900. Local Number, F-8

LOCATION.—Latitude 39°39'13", longitude 82°33'09", Fairfield County, Hydrologic Unit 05030204. Lancaster, Ohio. Owner: City of Lancaster.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 87 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 791.5 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.5 ft above land-surface datum.

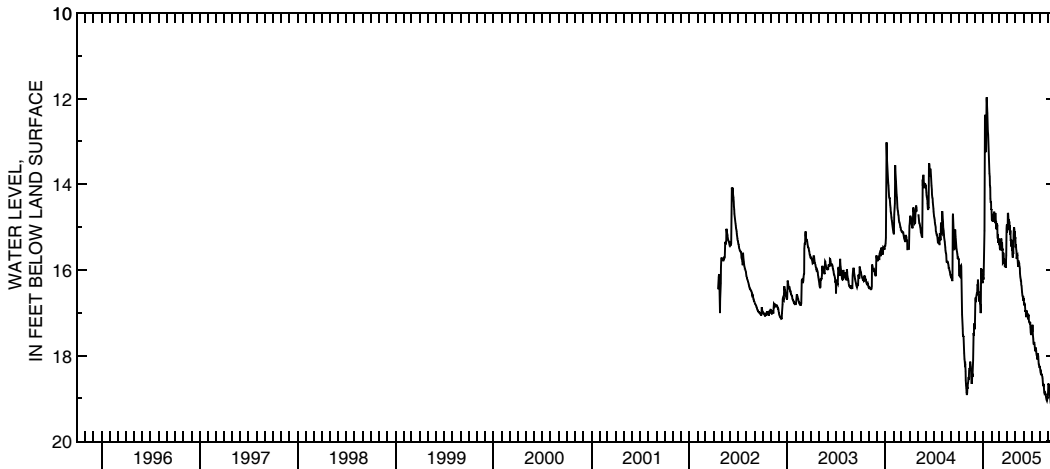
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—April 2002 to current year.

EXREMES FOR PERIOD OF RECORD.—Maximum daily low, 19.29 ft below land-surface datum, Sept. 21 and 23, 2005; minimum daily low, 11.97 ft below land-surface datum, Jan. 14, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.74	18.92	17.34	16.17	14.58	15.27	15.08	15.24	16.65	17.42	18.27	18.65
2	15.75	18.87	16.88	16.23	14.84	15.42	15.05	15.48	16.80	17.46	18.35	18.68
3	15.99	18.75	16.71	16.11	14.85	15.32	14.67	15.40	16.75	17.43	18.39	18.70
4	16.13	18.77	16.64	15.57	14.70	15.50	14.69	15.51	16.83	17.28	18.38	18.70
5	16.14	18.66	16.75	15.09	14.88	15.42	14.84	15.56	16.79	17.49	18.44	18.84
6	15.96	18.59	16.62	13.60	14.73	15.54	14.81	15.74	16.88	17.61	18.44	18.92
7	16.02	18.50	16.58	12.38	14.88	15.40	14.97	15.66	16.98	17.69	18.44	18.97
8	15.99	18.56	16.52	12.66	14.69	15.44	14.87	15.65	16.94	17.74	18.48	19.02
9	15.90	18.35	16.59	12.96	14.70	15.27	15.06	15.74	17.04	17.70	18.50	19.08
10	15.89	18.29	16.34	13.02	14.67	15.54	14.96	15.87	17.10	17.68	18.53	19.13
11	15.92	18.30	16.36	13.25	14.64	15.53	15.17	15.92	17.04	17.74	18.63	19.15
12	16.45	18.30	16.23	12.45	14.82	15.36	15.08	15.78	16.95	17.82	18.69	19.15
13	16.79	18.14	16.32	12.03	14.76	15.54	15.32	15.92	17.06	17.86	18.70	19.11
14	17.04	18.20	16.52	11.97	14.91	15.50	15.30	15.83	17.01	17.88	18.66	19.11
15	17.20	18.25	16.52	12.15	14.67	15.84	15.45	15.85	17.03	17.90	18.72	19.20
16	17.36	18.33	16.58	12.34	14.84	15.83	15.36	15.92	17.10	17.81	18.83	19.20
17	17.50	18.48	16.74	12.52	14.88	15.60	15.30	15.96	17.15	17.88	18.87	19.23
18	17.56	18.61	16.71	12.75	14.88	15.81	15.56	16.08	17.06	17.94	18.86	19.28
19	17.54	18.66	16.62	12.84	15.05	15.74	15.50	16.16	17.04	17.99	18.89	19.28
20	17.65	18.59	16.79	13.00	14.91	15.81	15.63	16.19	17.16	18.00	18.90	19.28
21	17.81	18.42	16.80	13.19	15.03	15.74	15.71	16.23	17.22	18.05	18.89	19.29
22	17.94	18.50	17.01	13.43	14.94	15.92	15.51	16.26	17.20	18.09	18.92	19.25
23	18.08	18.30	16.97	13.53	15.14	15.89	15.63	16.36	17.24	18.00	18.97	19.29
24	18.15	18.11	15.96	13.75	15.27	15.89	15.17	16.38	17.25	17.95	18.99	19.22
25	18.21	17.90	16.04	13.82	15.17	15.81	15.09	16.47	17.22	18.02	19.04	18.96
26	18.20	17.47	15.99	14.03	15.36	15.95	15.00	16.52	17.33	18.14	19.06	18.93
27	18.36	17.54	16.22	14.07	15.29	15.76	15.06	16.59	17.45	18.20	19.04	18.92
28	18.57	17.25	16.28	14.34	15.36	15.66	15.18	16.62	17.52	18.21	18.97	18.96
29	18.70	17.39	16.29	14.43	---	15.03	15.10	16.64	17.46	18.24	18.99	18.97
30	18.77	17.34	16.29	14.40	---	14.94	15.27	16.61	17.47	18.29	18.97	19.06
31	18.86	---	16.20	14.60	---	15.12	---	16.72	---	18.24	18.80	---
MAX	18.86	18.92	17.34	16.23	15.36	15.95	15.71	16.72	17.52	18.29	19.06	19.29
CAL YR 2004	LOW 18.92											
WTR YR 2005	LOW 19.29											



394257082362900. Local Number, F-6

LOCATION.—Latitude 39°42'57", longitude 82°36'29", Fairfield County, Hydrologic Unit 05030204, near Hocking River at Lancaster, Ohio. Owner: City of Lancaster.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 12 in., depth 108 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 820 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

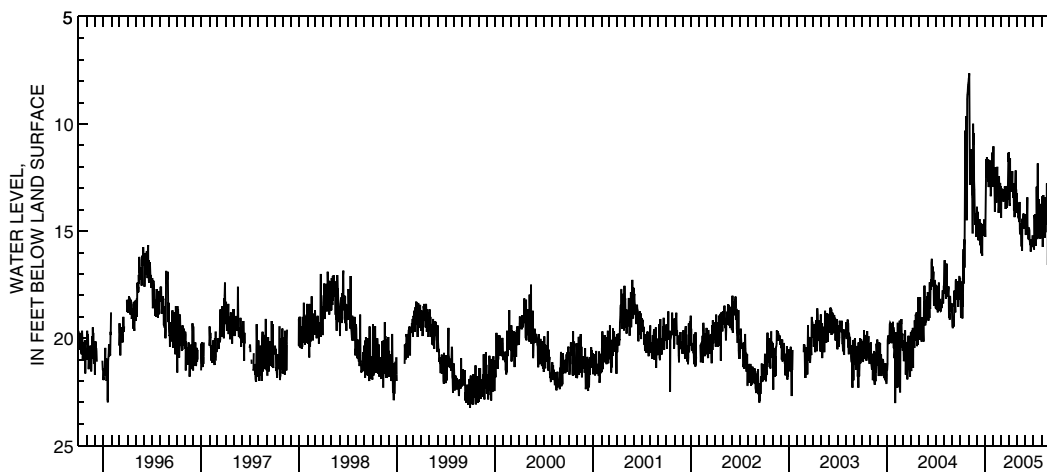
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1978 to current year.

EXREMES FOR PERIOD OF RECORD.—Maximum daily low, 27.45 ft below land-surface datum, Aug. 17, 1988; minimum daily low, 7.64 ft below land-surface datum, Nov. 4, 2004.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.18	8.07	15.15	14.73	12.93	13.60	11.31	13.49	14.25	15.75	14.39	14.57
2	18.12	7.86	14.50	14.95	11.04	12.92	12.67	14.16	15.10	15.54	13.86	13.49
3	18.12	7.85	13.87	15.28	12.65	14.39	13.70	13.92	15.18	15.83	13.97	13.43
4	19.06	7.64	15.00	14.56	12.67	13.00	13.83	13.71	15.10	15.83	13.37	13.90
5	18.22	10.28	14.10	13.23	12.65	13.40	11.60	14.30	15.15	14.25	15.74	13.26
6	17.36	12.84	14.22	11.65	13.04	13.29	13.08	14.33	14.73	14.42	14.43	13.38
7	18.15	11.94	15.42	12.48	14.10	13.10	12.53	14.31	14.18	15.44	13.32	13.73
8	18.02	12.71	15.18	11.55	13.34	13.47	12.59	14.54	13.43	14.22	14.04	13.08
9	19.08	12.20	14.85	11.58	12.21	13.17	12.90	14.54	14.76	15.10	13.88	13.29
10	17.95	12.67	14.70	12.31	12.02	13.04	13.17	13.64	14.94	15.68	15.05	13.82
11	18.51	12.85	14.64	12.07	12.95	13.62	12.99	14.90	15.06	14.87	13.85	12.14
12	17.42	11.19	14.44	11.73	12.59	13.28	12.99	15.15	15.35	14.87	15.32	13.95
13	15.84	11.45	15.46	12.69	13.68	13.38	12.20	14.65	15.39	12.93	13.43	13.51
14	17.45	13.29	14.91	11.66	13.38	13.34	13.00	14.72	14.84	14.67	13.82	13.56
15	15.72	13.41	15.67	12.95	13.22	13.56	13.05	14.69	14.90	15.23	15.06	13.55
16	15.40	15.10	14.79	11.73	12.00	12.92	13.22	15.08	14.99	15.38	13.49	13.82
17	16.71	13.53	14.82	12.00	13.37	13.51	13.46	15.71	15.40	11.84	14.48	12.59
18	16.02	9.99	14.62	11.79	12.99	13.41	12.77	14.81	15.51	14.72	13.70	11.78
19	15.10	10.77	16.05	11.70	12.62	13.97	14.04	14.50	15.65	13.70	14.69	14.65
20	10.31	10.94	14.85	11.85	12.78	13.70	12.93	15.92	15.56	14.30	12.77	13.35
21	11.70	10.44	15.91	11.73	14.15	13.58	13.46	14.42	15.96	13.50	14.55	14.75
22	12.98	12.65	16.15	12.72	13.86	13.00	14.35	14.63	15.68	14.70	13.85	15.08
23	9.63	13.08	14.91	13.37	12.44	12.89	13.32	14.43	15.59	15.29	13.71	13.77
24	11.72	14.16	14.82	13.14	13.25	13.11	13.92	14.48	15.38	15.06	16.58	13.55
25	14.49	14.49	14.68	12.05	13.23	13.90	12.77	14.18	15.65	14.37	13.79	14.72
26	14.43	14.71	14.70	12.33	13.65	13.32	12.17	14.57	15.56	13.73	13.75	15.32
27	8.84	14.61	14.88	12.56	12.75	13.53	13.80	14.87	15.47	15.36	14.93	15.35
28	8.64	14.16	15.21	11.34	13.13	13.11	13.05	14.82	15.20	14.82	14.99	13.65
29	8.54	14.58	14.46	12.21	---	12.39	13.75	14.88	15.39	14.90	14.35	13.55
30	8.24	15.27	14.83	12.03	---	11.34	13.23	14.70	15.71	14.78	13.68	13.46
31	8.16	---	14.91	12.29	---	11.76	---	14.25	---	14.96	14.35	---
MAX	19.08	15.27	16.15	15.28	14.15	14.39	14.35	15.92	15.96	15.83	16.58	15.35
CAL YR 2004		LOW 23.03										
WTR YR 2005		LOW 19.08										



394544082271000. Local Number, F-1

LOCATION.—Latitude 39°45'44", longitude 82°27'10", Fairfield County, Hydrologic Unit 05030204, near the west edge of West Rushville, Ohio. Owner: State of Ohio.

AQUIFER.—Sandstone of Mississippian Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 108 ft, cased. Depth 84 ft prior to water year 2003.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 980 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 8.02 ft above land-surface datum.

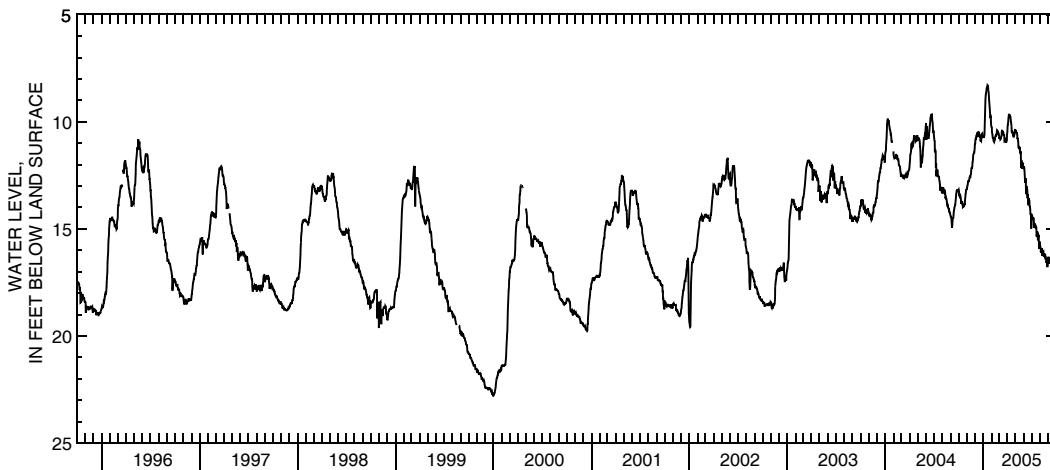
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 22.80 ft below land-surface datum, Dec. 31, 1999 - Jan. 1, 2000; minimum daily low, 7.27 ft below land-surface datum, May 5-6, 1962.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.17	13.15	11.06	10.76	10.26	10.65	10.46	10.40	12.12	14.39	15.75	16.34
2	13.35	13.05	11.03	10.68	10.29	10.80	10.16	10.50	12.14	14.37	15.83	16.44
3	13.34	12.99	10.89	10.67	10.49	10.77	10.14	10.41	12.11	14.43	15.90	16.45
4	13.40	12.95	10.79	10.74	10.62	10.76	10.02	10.49	12.27	14.58	16.08	16.59
5	13.46	12.89	10.79	10.61	10.77	10.77	9.84	10.50	12.59	14.55	16.08	16.59
6	13.50	12.75	10.65	10.13	10.74	10.83	9.72	10.53	12.85	14.49	15.90	16.56
7	13.47	12.81	10.62	9.67	10.80	10.80	9.63	10.55	12.75	14.49	16.06	16.40
8	13.55	12.78	10.68	9.21	10.89	10.70	9.66	10.79	12.63	14.55	16.02	16.35
9	13.59	12.72	10.68	8.96	10.92	10.68	9.71	10.76	13.04	14.82	16.26	16.34
10	13.70	12.66	10.52	8.76	10.95	10.65	9.72	10.85	13.38	14.96	16.13	16.38
11	13.83	12.59	10.50	8.66	10.92	10.47	9.75	10.94	13.02	14.82	16.10	16.53
12	13.73	12.57	10.50	8.63	10.83	10.38	9.76	11.12	13.04	14.79	16.06	16.53
13	13.74	12.63	10.55	8.52	10.83	10.50	9.91	11.25	13.11	14.79	16.05	16.49
14	13.80	12.56	10.53	8.41	10.74	10.47	9.99	11.17	13.25	14.84	16.29	16.62
15	13.79	12.47	10.65	8.39	10.68	10.47	10.09	11.15	13.58	14.85	16.25	16.68
16	13.90	12.42	10.65	8.36	10.67	10.53	10.22	11.25	13.38	14.99	16.26	16.64
17	14.00	12.27	10.58	8.31	10.64	10.53	10.46	11.21	13.41	14.90	16.23	16.67
18	13.98	12.17	10.61	8.33	10.65	10.62	10.47	11.45	13.90	14.94	16.16	16.95
19	13.90	12.14	10.74	8.43	10.61	10.62	10.47	11.37	13.70	15.36	16.25	17.27
20	13.92	12.20	10.70	8.55	10.58	10.59	10.55	11.46	13.58	15.21	16.32	17.24
21	13.98	12.08	10.71	8.61	10.42	10.88	10.55	11.45	13.67	15.17	16.31	17.16
22	13.94	11.91	10.92	8.85	10.44	10.86	10.58	12.15	13.70	15.17	16.43	16.86
23	13.82	11.84	10.86	8.99	10.52	10.92	10.56	11.84	13.95	15.42	16.38	16.83
24	13.89	11.63	10.89	9.18	10.53	10.92	10.73	11.81	13.97	15.54	16.59	16.88
25	13.70	11.52	10.77	9.38	10.50	10.88	10.68	12.20	14.09	15.36	16.55	17.43
26	13.53	11.48	10.68	9.51	10.55	10.92	10.61	12.00	14.30	15.30	16.50	17.04
27	13.38	11.46	10.56	9.80	10.55	10.97	10.61	12.08	14.31	15.32	16.50	16.86
28	13.34	11.49	10.55	9.80	10.62	10.94	10.55	11.91	14.45	15.93	16.79	16.79
29	13.19	11.40	10.73	9.78	---	10.92	10.41	12.17	14.99	15.75	16.71	17.25
30	13.15	11.21	10.68	10.04	---	10.85	10.34	12.18	14.78	15.59	16.56	17.09
31	13.17	---	10.64	10.19	---	10.61	---	12.11	---	15.80	16.31	---
MAX	14.00	13.15	11.06	10.76	10.95	10.97	10.73	12.20	14.99	15.93	16.79	17.43
CAL YR 2004		LOW 14.94										
WTR YR 2005		LOW 17.43										



395053082361900. Local Number, F-5

LOCATION.—Latitude 39°50'53", longitude 82°36'19", Fairfield County, Hydrologic Unit 05060001, Gaylord Paper Company, Baltimore, Ohio. Owner: Crown Zellerbach, Gaylord Paper Division.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 12 in., depth 180 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 850 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

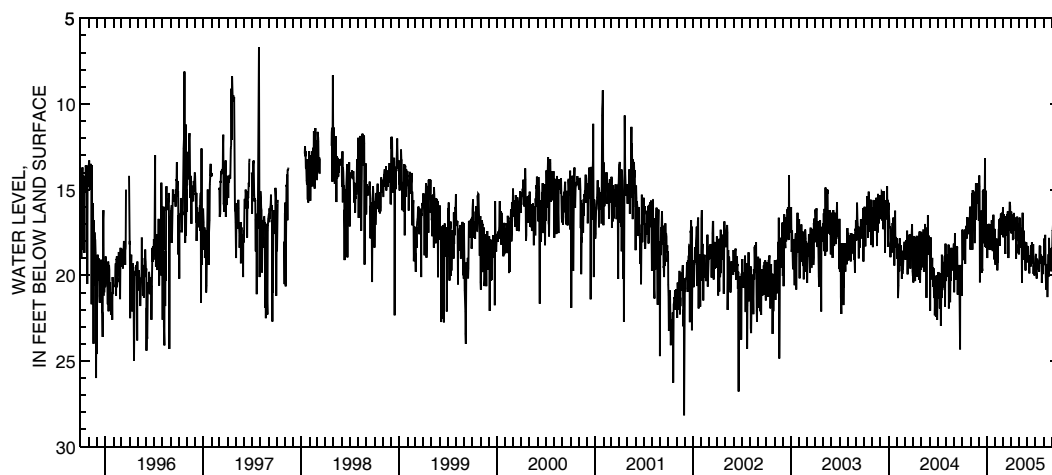
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 34.50 ft below land-surface datum, Sept. 13, 1984; minimum daily low, 0.98 ft above land-surface datum, Nov. 7, 1979.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.84	18.51	14.65	17.10	19.14	17.01	17.49	18.78	18.29	19.41	19.36	19.31
2	17.33	16.97	16.81	17.90	19.35	16.04	16.29	17.97	19.25	18.87	19.41	18.11
3	18.08	16.02	14.67	19.00	19.40	17.49	17.56	16.64	18.31	18.75	17.86	17.42
4	18.99	16.49	14.18	17.60	18.68	17.78	17.28	17.33	19.04	19.90	18.87	17.42
5	18.11	16.14	14.82	17.01	17.86	17.55	16.74	17.20	18.86	19.95	18.99	16.94
6	19.11	15.98	20.42	18.40	17.99	16.44	16.62	17.81	18.84	20.19	17.64	18.51
7	18.80	15.23	16.53	17.07	18.40	17.28	16.94	17.88	19.34	19.04	18.11	18.31
8	17.56	18.51	18.84	17.13	18.33	17.25	17.95	18.14	19.90	19.13	19.89	18.17
9	17.45	15.03	18.89	17.00	19.71	16.56	16.45	18.39	19.13	19.31	20.54	17.69
10	17.45	16.23	16.97	18.51	18.90	18.66	16.77	17.24	19.11	19.56	20.84	18.05
11	17.33	16.71	16.70	17.64	19.25	18.75	17.39	18.83	18.96	19.36	19.90	17.11
12	19.34	15.84	16.23	17.56	17.93	16.64	16.36	20.45	19.15	19.64	20.15	17.81
13	17.64	15.96	19.86	17.49	18.17	16.72	16.97	17.10	18.61	19.19	19.94	18.39
14	17.72	15.12	19.61	18.53	17.31	17.69	16.81	16.35	18.27	19.52	19.34	18.25
15	17.76	17.39	19.75	17.03	17.28	17.52	16.75	17.90	19.49	19.79	21.27	17.95
16	17.36	16.13	16.31	17.28	17.30	17.15	16.64	19.10	18.56	18.90	19.86	19.13
17	17.11	18.11	15.08	17.91	16.72	16.43	16.79	18.22	18.65	18.27	20.00	17.39
18	17.86	16.67	15.30	18.17	18.29	16.70	17.90	17.39	18.08	19.28	19.74	17.70
19	16.61	15.83	15.00	16.79	17.67	17.20	17.00	18.36	18.74	18.30	18.77	18.66
20	16.77	16.06	16.16	17.25	16.67	16.28	19.05	18.18	18.66	19.32	20.07	17.13
21	17.33	14.64	18.12	17.16	17.19	18.11	18.22	18.70	19.20	18.95	17.82	17.58
22	16.88	16.75	17.49	17.34	16.40	19.00	18.72	18.05	19.29	18.80	19.05	19.68
23	17.61	15.53	17.28	18.59	17.63	18.69	16.91	18.56	18.18	19.26	19.52	18.11
24	16.65	15.20	14.82	17.22	17.47	17.09	16.58	18.66	19.92	18.87	19.20	17.13
25	16.72	15.01	13.17	16.47	17.15	17.06	17.97	19.72	19.45	20.45	19.43	17.70
26	17.27	14.82	18.35	16.56	16.55	16.64	17.52	18.59	19.95	19.50	19.72	19.04
27	16.80	14.65	15.06	17.84	16.34	15.76	17.88	18.74	19.97	19.72	18.63	17.49
28	16.83	15.53	16.02	18.53	17.25	15.76	17.49	18.09	20.01	19.94	18.45	17.64
29	17.10	15.75	18.40	19.08	---	15.95	17.01	18.84	19.92	19.47	19.77	18.83
30	16.00	15.74	17.78	17.78	---	17.37	18.35	18.65	19.62	19.45	19.14	18.17
31	16.19	---	18.18	17.30	---	16.85	---	18.54	---	18.89	18.40	---
MAX	19.34	18.51	20.42	19.08	19.71	19.00	19.05	20.45	20.01	20.45	21.27	19.68
CAL YR 2004			LOW 24.32									
WTR YR 2005			LOW 21.27									



Ground-Water Records—Fayette County

393153083322000. Local Number, FA-1

LOCATION.—Latitude 39°31'53", longitude 83°32'20", Fayette County, Hydrologic Unit 05060003, Burnett-Perill Road about 6 mi west of Washington Court House, Ohio. Owner: Martha Slagle.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 5 in., depth 78 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval. Satellite telemeter at site.

DATUM.—Elevation of land-surface datum is 1,010 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

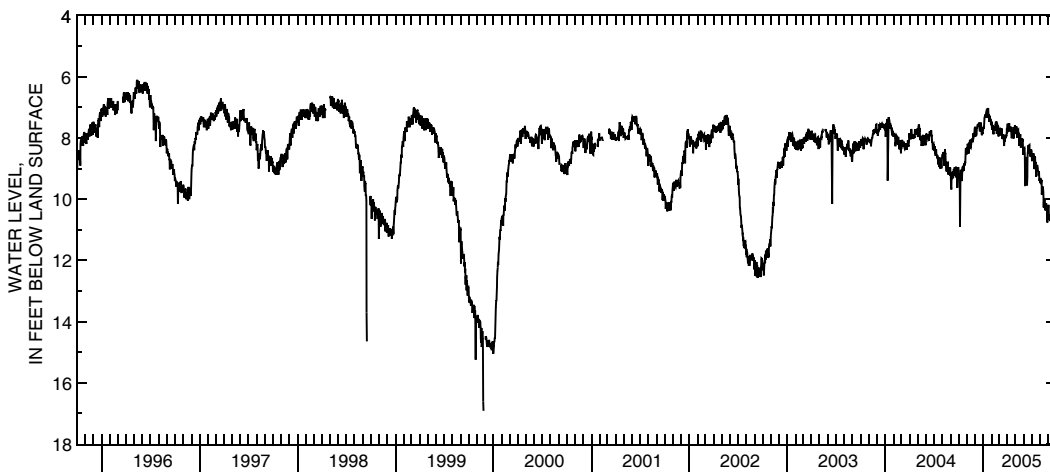
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—February 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 16.92 ft below land-surface datum, Nov. 25, 1999; minimum daily low, 3.26 ft below land-surface datum, Apr. 28, 1964.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.08	8.38	7.66	7.72	7.46	7.83	7.67	7.84	8.33	8.51	9.46	10.18
2	9.33	8.30	7.66	7.64	7.63	7.70	7.53	7.68	8.48	8.76	9.31	10.22
3	9.32	8.33	7.93	7.70	7.73	7.93	7.80	7.69	8.33	8.59	9.34	10.68
4	9.16	8.19	7.95	7.63	7.59	7.79	7.76	7.77	8.32	8.55	9.51	10.56
5	9.27	8.23	7.71	7.35	7.61	7.76	7.71	7.62	8.52	8.55	9.47	10.51
6	10.90	8.21	7.92	7.32	7.68	7.71	7.63	7.74	9.57	8.59	9.37	10.62
7	9.46	8.51	7.77	7.30	7.84	7.74	7.54	7.90	8.63	8.50	9.85	10.61
8	9.25	8.36	7.66	7.24	7.88	7.75	7.52	8.00	9.11	8.63	9.74	10.70
9	9.05	8.23	7.69	7.23	7.76	7.87	7.76	7.86	9.06	8.81	9.82	10.64
10	9.14	8.27	7.58	7.34	7.69	7.78	7.69	7.74	9.41	9.02	9.72	10.58
11	9.25	8.21	7.56	7.19	7.70	7.69	7.66	7.73	8.62	8.85	9.59	11.25
12	9.03	8.06	7.56	7.17	7.77	8.03	7.79	7.90	8.71	8.69	9.65	11.17
13	9.41	8.33	7.61	7.11	7.72	7.96	7.63	7.83	9.55	8.60	9.77	10.98
14	9.23	8.30	7.64	7.12	7.69	8.04	7.67	7.90	9.28	8.82	10.27	10.90
15	9.02	8.31	7.59	7.15	7.56	7.99	7.77	8.26	8.63	8.81	10.09	10.93
16	8.94	8.22	7.50	7.11	7.51	7.94	7.96	8.16	8.45	8.82	10.12	10.80
17	9.04	8.21	7.59	7.32	7.51	7.91	8.01	7.98	8.47	9.27	9.96	10.95
18	9.09	8.06	7.67	7.34	7.49	7.91	7.97	8.00	8.24	9.01	10.00	11.24
19	8.90	8.04	7.78	7.02	7.46	8.22	7.95	7.88	8.38	9.07	10.33	11.14
20	9.07	8.11	7.60	7.15	7.86	8.26	7.94	8.04	8.50	8.99	10.29	11.05
21	8.91	8.02	7.52	7.29	7.82	8.02	7.95	8.31	8.24	8.88	10.37	11.23
22	8.83	8.14	7.71	7.23	7.59	8.11	7.85	8.22	8.23	8.91	10.23	11.13
23	8.87	8.11	7.50	7.47	7.58	7.96	7.65	8.01	8.39	8.99	10.19	11.02
24	8.90	7.85	7.58	7.42	7.64	8.02	8.02	8.12	8.36	9.08	10.14	11.18
25	8.77	7.95	7.71	7.27	7.62	7.96	7.78	8.05	8.51	9.10	10.26	11.42
26	8.83	7.97	7.86	7.41	7.70	7.94	7.66	8.01	8.61	9.23	10.25	11.32
27	8.54	7.90	7.91	7.45	7.95	7.95	7.84	8.11	8.54	9.20	10.20	11.28
28	8.36	7.87	7.86	7.37	7.71	7.92	7.86	8.03	8.56	9.10	10.76	11.20
29	8.37	7.82	7.84	7.42	---	7.92	7.59	8.22	8.38	9.27	10.53	11.45
30	8.55	7.67	7.86	7.58	---	7.69	7.87	8.55	8.44	9.40	10.36	11.35
31	8.49	---	7.75	7.53	---	7.86	---	8.35	---	9.32	10.29	---
MAX	10.90	8.51	7.95	7.72	7.95	8.26	8.02	8.55	9.57	9.40	10.76	11.45
CAL YR 2004	LOW 10.90											
WTR YR 2005	LOW 11:45											



Ground-Water Records—Franklin County

394956083002700. Local Number, FR-18

LOCATION.—Latitude 39°49'56", longitude 83°00'27", Franklin County, Hydrologic Unit 05060001, south of State Route 665 at Shadeville, Ohio. Owner: City of Columbus.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 86.4 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 690 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.80 ft above land-surface datum.

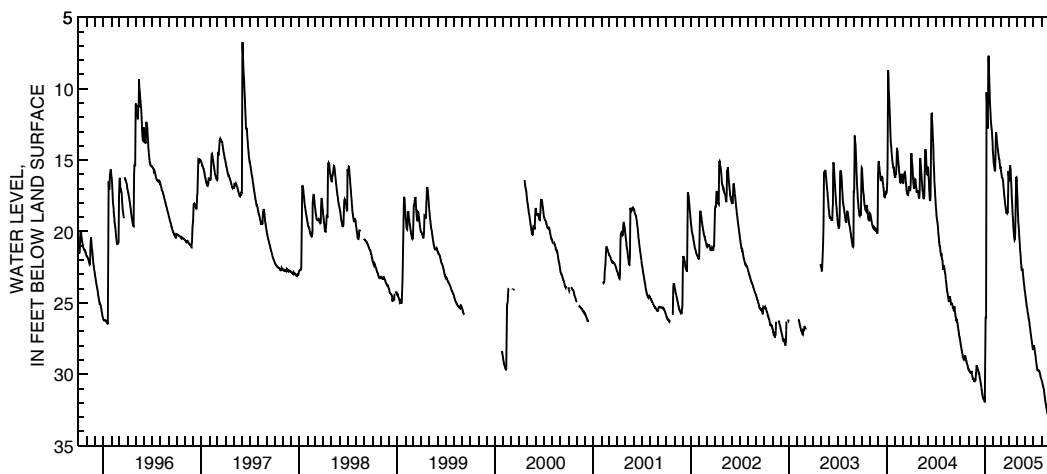
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—November 1985 to March 1986 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 33.20 ft below land-surface datum, Aug. 28-29, 2005; minimum daily low, 6.74 ft below land-surface datum, June 4, 1997.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.64	29.67	29.42	31.91	14.60	15.53	16.43	16.87	24.43	28.15	30.43	31.70
2	27.77	29.71	29.42	29.58	14.88	15.70	16.40	17.39	24.58	28.08	30.50	31.11
3	27.90	29.66	29.46	27.34	15.13	15.82	16.42	17.92	24.72	27.98	30.56	30.62
4	28.02	29.70	29.50	26.04	15.34	15.95	15.72	18.43	24.87	28.06	30.64	30.54
5	28.14	29.76	29.58	26.04	15.52	16.10	15.42	18.91	25.00	28.18	30.75	30.66
6	28.26	29.84	29.67	15.94	15.66	16.21	15.42	19.31	25.18	28.32	30.82	30.84
7	28.36	29.88	29.72	10.26	15.74	16.28	15.71	19.68	25.34	28.48	30.90	31.03
8	28.47	29.88	29.86	10.92	15.74	16.30	16.14	20.02	25.46	28.64	31.00	31.24
9	28.57	29.88	29.96	11.94	15.38	16.42	16.60	20.34	25.60	28.79	31.12	31.43
10	28.67	29.91	29.95	12.70	14.30	16.54	17.04	20.64	25.72	28.94	31.26	31.59
11	28.77	29.95	30.02	12.80	13.41	16.74	17.49	20.90	25.80	29.11	31.40	31.73
12	28.86	29.76	30.14	12.59	13.04	16.98	17.87	21.20	25.95	29.28	31.54	31.85
13	28.93	29.88	30.26	9.50	13.32	17.24	18.23	21.47	26.06	29.38	31.69	31.97
14	28.96	30.01	30.36	7.90	13.40	17.44	18.59	21.66	26.15	29.51	31.84	32.07
15	28.88	30.14	30.46	7.70	13.71	17.61	18.95	21.96	26.26	29.61	31.98	32.16
16	28.86	30.24	30.56	8.38	13.90	17.80	19.31	22.24	26.40	29.70	32.06	32.20
17	28.96	30.32	30.67	9.08	14.08	17.99	19.63	22.46	26.55	29.73	32.20	32.19
18	29.00	30.33	30.80	9.76	14.19	18.16	19.91	22.66	26.70	29.74	32.31	32.19
19	28.68	30.35	30.93	10.37	14.36	18.26	20.15	22.76	26.86	29.73	32.41	32.19
20	28.72	30.27	31.06	10.94	14.51	18.38	20.37	22.73	27.00	29.73	32.48	32.15
21	28.82	30.38	31.20	11.36	14.66	18.56	20.52	22.61	27.15	29.73	32.59	32.03
22	28.92	30.46	31.34	11.74	14.86	18.72	20.59	22.74	27.28	29.74	32.70	32.02
23	29.02	30.50	31.46	12.11	14.90	18.66	20.53	22.91	27.42	29.78	32.80	32.03
24	29.06	30.50	31.56	12.43	14.94	18.70	20.15	23.11	27.56	29.85	32.89	31.99
25	29.14	30.35	31.64	12.61	15.10	18.72	19.13	23.32	27.71	29.93	32.98	31.71
26	29.22	30.40	31.70	12.78	15.29	18.67	17.71	23.51	27.84	30.02	33.07	31.17
27	29.30	30.40	31.72	12.95	15.47	18.67	16.99	23.69	27.97	30.11	33.14	30.59
28	29.36	30.27	31.80	13.08	15.54	18.62	16.23	23.85	28.11	30.19	33.20	30.06
29	29.44	29.97	31.72	13.43	---	16.96	16.21	24.00	28.22	30.26	33.20	29.49
30	29.52	29.76	31.70	13.88	---	15.78	16.39	24.16	28.30	30.33	33.12	29.05
31	29.60	---	31.90	14.28	---	16.08	---	24.28	---	30.38	32.06	---
MAX	29.60	30.50	31.90	31.91	15.74	18.72	20.59	24.28	28.30	30.38	33.20	32.20
CAL YR 2004	LOW 31.90											
WTR YR 2005	LOW 33.20											



395055083000600. Local Number, FR-19

LOCATION.—Latitude 39°50'55", longitude 83°00'06", Franklin County, Hydrologic Unit 05060001, adjacent to State Route 23 near Shadeville, Ohio. Owner: City of Columbus.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 73 ft, present depth 72 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 741.95 ft above sea level. Measuring point: Floor of instrument shelter 2.5 ft above land-surface datum.

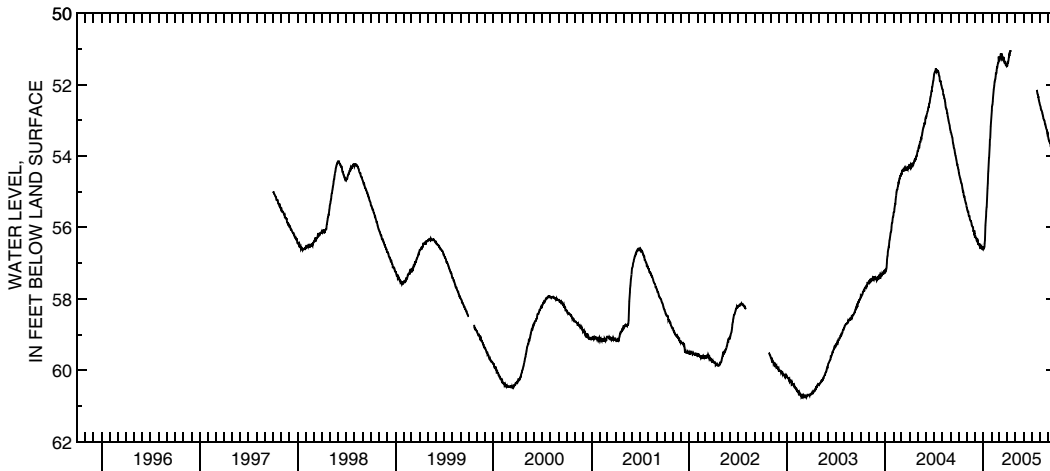
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—September 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 60.77 ft below land-surface datum, Feb. 23, 2003; minimum daily low, 51.04 ft below land-surface datum, Apr. 12, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.39	55.45	56.29	56.60	52.86	51.32	51.47	---	---	---	52.58	53.49
2	54.47	55.50	56.22	56.57	52.73	51.32	51.35	---	---	---	52.60	53.53
3	54.48	55.51	56.26	56.57	52.61	51.32	51.36	---	---	---	52.63	53.56
4	54.55	55.55	56.28	56.58	52.56	51.23	51.37	---	---	---	52.66	53.59
5	54.57	55.56	56.30	56.54	52.47	51.26	51.32	---	---	---	52.70	53.61
6	54.61	55.56	56.30	56.45	52.38	51.24	51.25	---	---	---	52.72	53.63
7	54.64	55.66	56.37	56.36	52.29	51.13	51.18	---	---	---	52.75	53.64
8	54.65	55.67	56.38	56.12	52.19	51.26	51.19	---	---	---	52.78	53.65
9	54.70	55.68	56.31	55.94	52.13	51.27	51.17	---	---	---	52.80	53.70
10	54.74	55.68	56.35	55.81	52.07	51.18	51.13	---	---	---	52.83	53.69
11	54.76	55.71	56.41	55.68	52.04	51.13	51.09	---	---	---	52.86	53.71
12	54.77	55.78	56.40	55.55	51.93	51.20	51.04	---	---	---	52.88	53.71
13	54.81	55.80	56.46	55.44	51.89	51.27	51.07	---	---	---	52.94	53.73
14	54.84	55.81	56.47	55.42	51.87	51.28	51.07	---	---	---	52.97	53.77
15	54.90	55.82	56.47	55.22	51.84	51.30	---	---	---	---	52.98	53.79
16	54.95	55.82	56.47	55.02	51.77	51.31	---	---	---	---	53.00	53.81
17	54.99	55.86	56.48	54.90	51.69	51.26	---	---	---	---	53.01	53.81
18	54.99	55.89	56.45	54.76	51.69	51.28	---	---	---	---	53.04	53.85
19	55.03	55.92	56.52	54.48	51.67	51.27	---	---	---	52.15	53.09	53.87
20	55.10	55.96	56.51	54.42	51.60	51.33	---	---	---	52.16	53.10	53.89
21	55.11	55.98	56.51	54.26	51.52	51.37	---	---	---	52.20	53.13	53.90
22	55.14	55.98	56.53	54.07	51.52	51.36	---	---	---	52.25	53.17	53.92
23	55.14	55.99	56.60	54.04	51.49	51.35	---	---	---	52.28	53.21	53.97
24	55.20	56.01	56.56	53.85	51.42	51.42	---	---	---	52.29	53.24	53.98
25	55.24	56.12	56.54	53.69	51.41	51.41	---	---	---	52.35	53.26	53.98
26	55.26	56.10	56.59	53.53	51.40	51.44	---	---	---	52.35	53.27	54.03
27	55.30	56.10	56.60	53.50	51.36	51.43	---	---	---	52.42	53.32	54.05
28	55.32	56.18	56.54	53.37	51.21	51.43	---	---	---	52.45	53.36	54.03
29	55.33	56.17	56.57	53.17	---	51.48	---	---	---	52.49	53.39	54.12
30	55.39	56.16	56.57	53.03	---	51.43	---	---	---	52.52	53.38	54.08
31	55.43	---	56.58	52.97	---	51.48	---	---	---	52.55	53.48	---
MAX	55.43	56.18	56.60	56.60	52.86	51.48	51.47	---	---	52.55	53.48	54.12
CAL YR 2004	LOW 57.23											
WTR YR 2005	LOW 56.60											



400101083021800. Local Number, FR-10

LOCATION.—Latitude 40°01'01", longitude 83°02'18", Franklin County, Hydrologic Unit 05060001, Kenny and Ackerman Roads, Columbus, Ohio. Owner: Ohio State University.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 4 in., depth 75 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 775 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

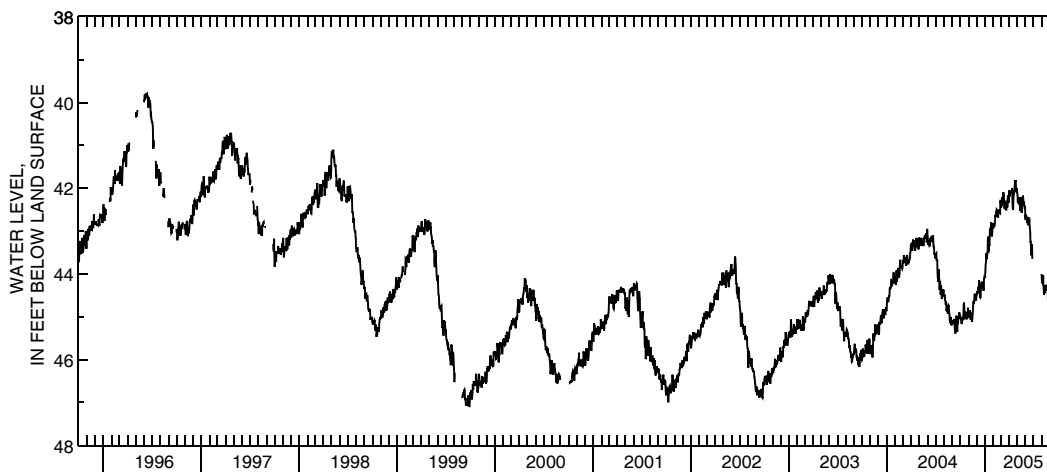
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—March 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 48.20 ft below land-surface datum, Oct. 7, 1954; minimum daily low, 37.76 ft below land-surface datum, Apr. 13, 1951.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.96	44.97	44.48	44.07	42.92	42.29	42.33	42.09	42.67	43.16	44.00	44.37
2	45.02	44.93	44.48	44.07	42.92	42.39	42.05	42.11	42.74	---	44.18	44.54
3	45.06	45.02	44.42	43.98	42.82	42.45	42.12	42.18	42.62	---	44.18	44.58
4	45.02	44.87	44.42	43.80	42.86	42.41	42.18	42.32	42.66	---	44.21	44.61
5	45.14	44.90	44.45	43.70	42.89	42.39	42.17	42.33	42.69	---	44.22	44.63
6	45.15	44.85	44.39	43.52	42.86	42.39	42.14	42.29	42.68	---	44.03	44.64
7	45.17	44.91	44.30	43.56	42.82	42.21	42.06	42.24	42.75	---	44.24	44.66
8	45.07	45.03	44.45	43.64	42.69	42.33	42.09	42.35	42.81	---	44.34	44.57
9	45.02	45.07	44.39	43.64	42.62	42.35	42.09	42.33	42.68	---	44.49	44.61
10	45.07	45.03	44.15	43.49	42.65	42.26	42.07	42.21	42.86	---	44.42	44.60
11	45.07	44.91	44.22	43.47	42.65	42.09	42.07	42.29	42.77	---	44.39	44.67
12	45.02	44.97	44.22	43.20	42.56	42.17	42.00	42.53	42.68	---	44.45	44.70
13	44.87	45.09	44.39	43.13	42.56	42.33	42.09	42.42	42.77	---	44.42	44.58
14	44.72	45.12	44.54	43.46	42.50	42.41	42.32	42.21	42.74	---	44.27	44.76
15	44.67	45.07	44.55	43.47	42.51	42.47	42.47	42.27	42.75	---	44.39	44.85
16	44.79	44.94	44.52	43.41	42.53	42.47	42.50	42.44	42.74	---	44.32	44.75
17	44.96	44.87	44.39	43.31	42.57	42.36	42.33	42.51	42.86	---	44.34	44.72
18	45.06	44.75	44.30	43.35	42.63	42.33	42.17	42.57	42.95	---	44.25	44.87
19	44.87	44.69	44.31	43.07	42.68	42.32	42.12	42.53	43.02	---	44.28	44.94
20	44.93	44.63	44.31	42.96	42.66	42.42	42.07	42.28	43.25	---	44.32	44.90
21	44.99	44.70	44.18	43.01	42.50	42.50	42.06	42.37	43.25	---	44.31	45.00
22	45.02	44.67	44.22	42.92	42.57	42.50	42.00	42.39	43.37	---	44.36	45.11
23	44.96	44.55	44.30	43.05	42.59	42.35	41.84	42.17	43.53	---	44.39	45.12
24	44.90	44.46	44.30	43.05	42.56	42.45	41.84	42.24	43.57	---	44.55	45.09
25	44.97	44.51	44.29	42.80	42.50	42.44	41.85	42.36	43.47	---	44.54	45.00
26	45.06	44.51	44.34	42.95	42.56	42.44	41.81	42.31	43.31	---	44.52	44.79
27	45.02	44.51	44.39	43.11	42.57	42.41	42.00	42.39	43.65	---	44.37	44.94
28	45.02	44.61	44.36	43.11	42.29	42.17	42.09	42.39	---	---	44.46	45.06
29	44.94	44.63	44.11	43.01	---	42.27	42.02	42.45	---	---	44.49	44.85
30	44.79	44.57	44.10	42.82	---	42.26	42.00	42.48	---	---	44.37	44.93
31	44.94	---	44.06	42.87	---	42.27	---	42.43	---	---	44.28	---
MAX	45.17	45.12	44.55	44.07	42.92	42.50	42.50	42.57	43.65	43.16	44.55	45.12
CAL YR 2004	LOW 45.39											
WTR YR 2005	LOW 45.17											



Ground-Water Records—Gallia County

383638082103300. Local Number, G-2

LOCATION.—Latitude 38°36'38", longitude 82°10'33", Gallia County, Hydrologic Unit 05090101, 5.9 mi east of Crown City, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled test water-table well, diameter 12 in., depth 65 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 552 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

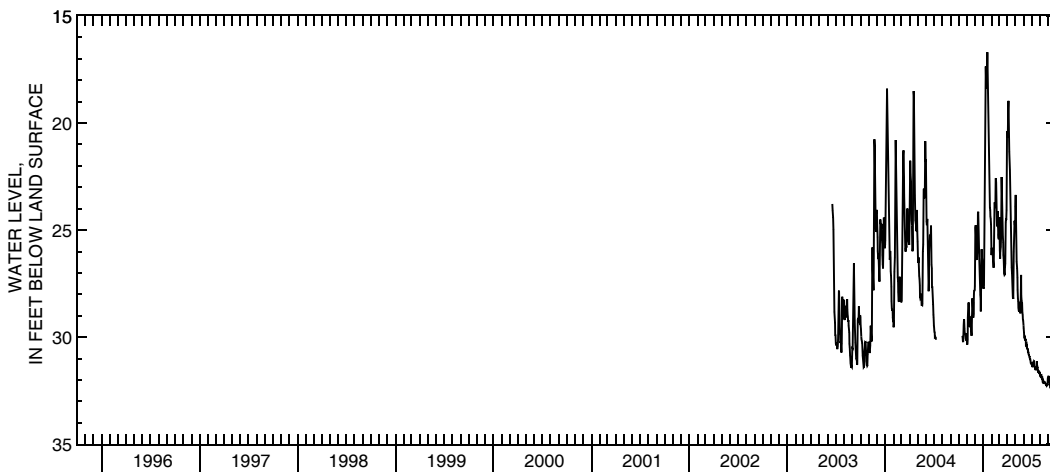
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1975 to September 1982 continuous, periodic October 1982 to June 2003, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 33.94 ft below land-surface datum, Sept. 22, 1983; minimum daily low 16.43 ft below land-surface datum, Mar. 8, 1979.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	29.80	27.62	27.73	26.17	25.04	20.45	23.90	29.58	31.28	31.72	31.86
2	---	30.35	26.70	27.70	25.83	24.41	20.66	23.36	29.77	31.24	31.76	31.86
3	---	30.31	24.90	27.70	25.95	25.12	20.48	24.21	29.97	31.33	31.76	31.81
4	---	30.09	24.77	27.57	26.02	25.94	19.36	24.59	30.03	31.32	31.86	32.04
5	---	29.09	25.18	25.74	26.15	26.33	18.97	25.50	30.01	31.34	31.88	32.09
6	---	28.46	25.78	23.59	26.36	26.01	19.63	26.47	30.15	31.30	31.84	32.24
7	---	28.38	26.34	22.22	26.54	25.79	20.66	26.78	30.09	31.39	31.91	32.24
8	---	28.41	26.39	20.23	26.76	25.25	21.34	27.22	30.13	31.35	31.94	32.35
9	---	28.99	26.12	18.63	26.57	23.95	21.79	27.79	30.40	31.12	31.92	32.39
10	---	29.40	25.90	17.36	25.81	22.52	22.19	28.17	30.42	31.13	32.03	32.31
11	---	29.49	25.30	17.85	24.84	23.10	23.09	28.33	30.35	31.35	32.01	32.40
12	---	29.51	24.24	18.40	23.70	23.84	23.76	28.63	30.34	31.40	32.07	32.39
13	---	29.20	24.14	18.30	23.73	24.32	24.39	28.74	30.49	31.45	32.04	32.40
14	---	29.09	24.76	17.85	23.97	24.79	25.12	28.82	30.54	31.46	32.09	32.48
15	29.94	29.07	25.10	17.46	23.90	25.29	25.73	28.58	30.54	31.54	32.14	32.54
16	30.04	29.41	25.68	16.70	22.63	25.56	26.21	28.35	30.57	31.47	32.14	32.52
17	30.19	29.72	26.22	17.04	22.57	26.16	26.74	28.51	30.73	31.47	32.07	32.48
18	30.23	29.93	26.68	17.90	22.78	26.34	27.01	28.65	30.70	31.53	32.17	32.53
19	29.81	29.84	27.24	19.44	23.32	26.84	27.59	28.86	30.81	31.48	32.13	32.52
20	29.43	28.78	27.60	20.69	23.80	27.01	27.77	28.89	30.82	31.12	32.13	32.53
21	29.16	28.29	28.02	21.33	24.79	27.08	28.10	27.89	30.88	31.43	32.17	32.51
22	29.20	28.17	28.25	22.28	24.80	27.06	28.09	27.09	30.92	31.40	32.22	32.59
23	29.59	28.52	28.80	22.53	24.41	26.76	28.21	28.07	30.92	31.49	32.23	32.65
24	29.84	28.49	28.09	23.08	24.12	26.56	27.10	28.29	31.02	31.59	32.23	32.62
25	29.84	29.09	26.47	23.55	24.53	25.29	26.02	28.40	31.02	31.58	32.27	32.53
26	29.85	28.91	25.89	23.96	25.22	24.62	25.42	28.39	31.07	31.62	32.25	32.67
27	29.97	28.02	26.24	24.07	25.39	24.45	24.91	28.86	31.19	31.66	32.18	32.68
28	30.09	27.83	26.38	24.36	25.39	24.53	24.56	28.96	31.24	31.60	32.22	32.50
29	30.13	27.82	26.72	24.47	---	24.07	24.77	29.16	31.17	31.70	32.25	32.67
30	30.15	27.79	26.97	24.74	---	21.84	24.70	29.25	31.27	31.66	31.90	32.63
31	30.02	---	27.46	25.09	---	20.38	---	29.44	---	31.73	31.85	---
MAX	30.23	30.35	28.80	27.73	26.76	27.08	28.21	29.44	31.27	31.73	32.27	32.68
CAL YR 2004	LOW 30.35											
WTR YR 2005	LOW 32.68											



Ground-Water Records—Greene County

394217083594100. Local Number, GR-12

LOCATION.—Latitude 39°42'17", longitude 83°59'41", Greene County, Hydrologic Unit 05090202, at Glen Thompson Preserve near Trebein, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 75 ft, cased to 70 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 790 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

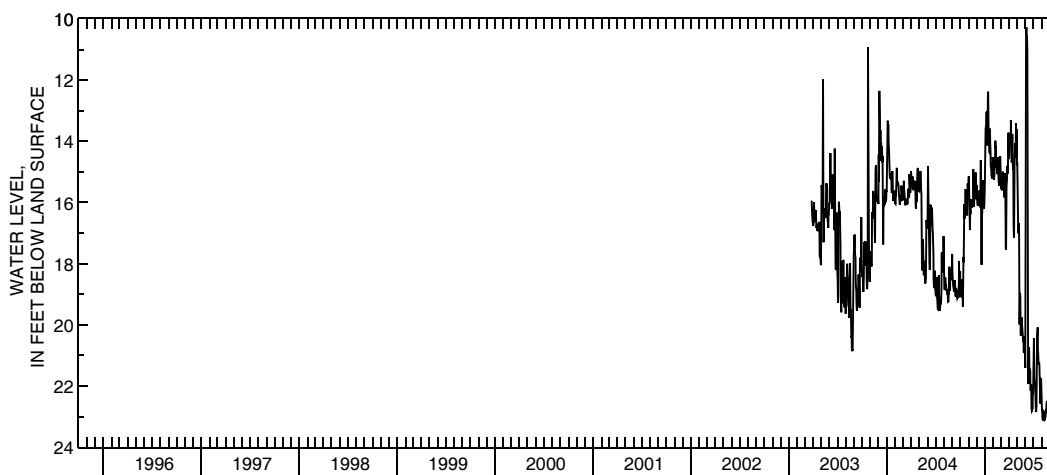
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—March 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 23.10 ft below land-surface datum, Aug. 5-6, 2005; minimum daily low, 10.27 ft above land-surface datum, June 5, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.27	15.25	15.90	15.50	14.70	14.98	14.58	14.79	21.41	21.65	22.47	20.08
2	18.86	15.14	15.43	14.80	14.89	15.50	14.49	14.70	13.94	20.81	22.74	19.55
3	18.79	15.26	15.61	14.09	15.19	15.54	13.94	15.70	11.16	20.44	22.85	20.80
4	18.72	15.82	15.99	13.58	15.26	15.50	13.85	15.97	10.47	21.06	22.98	21.68
5	18.52	16.12	16.08	13.50	15.10	15.58	14.13	16.48	10.27	21.76	23.10	22.19
6	18.84	16.90	16.08	13.06	14.66	15.60	14.11	17.01	10.46	21.89	23.10	22.40
7	19.10	16.26	15.73	13.05	14.86	15.46	14.04	16.77	10.58	21.89	22.98	22.46
8	19.07	16.38	15.83	13.14	14.29	14.99	13.32	16.68	11.06	22.24	22.83	22.70
9	18.76	16.20	15.98	13.87	13.98	15.02	13.76	18.58	16.88	22.53	22.85	22.71
10	19.09	15.90	15.90	14.14	14.19	15.30	14.46	19.99	21.06	22.82	22.91	22.59
11	19.40	15.96	15.81	14.02	14.18	15.54	14.69	19.24	21.90	22.82	23.04	22.75
12	18.98	16.02	15.60	12.60	14.68	15.44	14.52	18.95	21.93	22.66	23.03	22.91
13	17.78	16.09	15.94	12.38	14.69	15.69	13.76	19.10	21.65	22.34	23.08	22.64
14	17.95	16.17	16.02	12.86	14.75	15.80	13.82	20.22	20.76	21.30	23.05	22.44
15	16.93	15.94	16.16	13.74	15.02	15.79	14.73	20.35	20.74	20.36	23.00	22.89
16	16.05	16.00	15.07	13.82	15.07	15.69	14.94	20.00	21.44	20.20	22.86	22.90
17	16.50	16.04	14.62	13.72	14.70	15.04	14.78	20.17	21.42	20.08	22.75	21.95
18	16.52	15.92	15.59	14.36	14.52	15.26	16.72	20.17	21.58	20.83	22.82	21.79
19	16.29	14.91	17.94	14.38	14.64	17.03	17.14	19.76	21.56	20.94	22.58	21.46
20	15.96	15.41	18.04	13.59	14.88	17.50	17.00	20.02	22.08	21.30	22.48	21.24
21	15.56	16.00	16.44	14.10	15.26	17.54	15.57	20.14	22.15	21.28	22.58	21.20
22	15.91	16.15	16.31	14.34	15.38	15.84	14.74	20.33	22.02	21.22	22.66	21.30
23	16.13	15.72	16.16	14.82	15.23	15.40	14.48	20.41	21.95	21.28	22.81	20.65
24	15.94	15.16	15.30	14.84	15.40	15.33	14.06	20.56	22.73	21.48	22.90	20.42
25	15.88	15.84	15.30	14.96	15.46	15.12	14.36	20.46	22.81	22.03	22.92	20.98
26	16.27	15.78	15.41	15.15	14.98	14.80	14.40	20.88	22.80	22.42	22.93	20.88
27	16.42	15.46	15.86	15.12	14.48	15.00	13.40	20.92	22.74	22.57	22.77	20.46
28	15.76	15.02	16.20	15.20	14.60	15.05	14.50	20.42	22.72	22.17	22.55	20.10
29	15.38	15.42	16.18	15.20	---	14.18	14.50	20.37	22.26	21.77	22.51	20.03
30	15.52	15.86	16.08	14.66	---	13.72	13.60	20.96	22.23	21.78	22.29	20.66
31	15.71	---	15.80	14.51	---	14.22	---	21.26	---	22.24	20.06	---
MAX	19.40	16.90	18.04	15.50	15.46	17.54	17.14	21.26	22.81	22.82	23.10	22.91
CAL YR 2004	LOW 19.53											
WTR YR 2005	LOW 23.10											



394411083561300. Local Number, GR-1

LOCATION.—Latitude 39°44'11", longitude 83°56'13", Greene County, Hydrologic Unit 05090202, along Massies Creek near U.S. 68 north of Xenia, Ohio.
 Owner: City of Xenia.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 30 in., depth 77 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 818.88 ft above sea level. Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

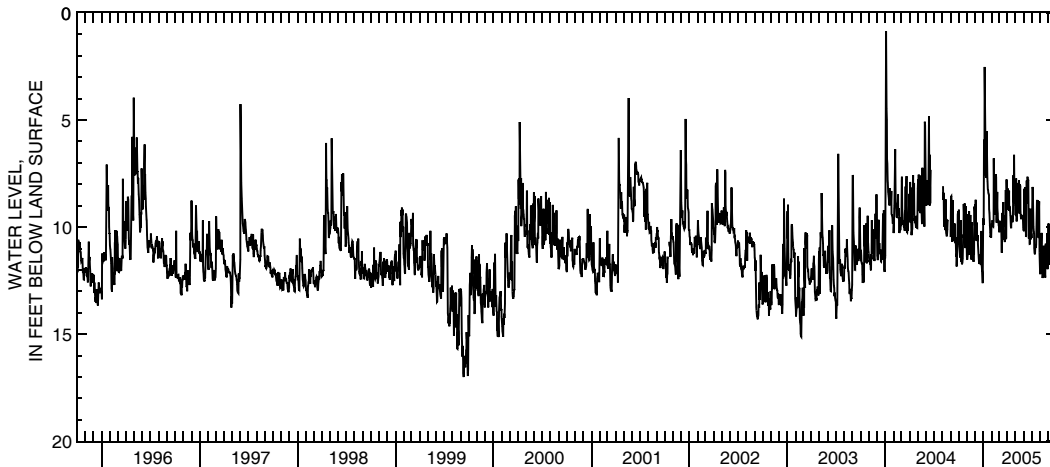
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 21.60 ft below land-surface datum, July 7, 1966; minimum daily low, 0.65 ft above land-surface datum, Aug. 3, 1958.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.81	11.38	9.93	9.60	9.83	9.99	9.13	9.42	10.16	9.81	12.02	9.87
2	9.19	11.52	8.95	9.82	9.91	10.24	8.20	9.43	10.08	9.89	12.20	9.83
3	10.54	11.47	9.94	9.90	9.96	9.88	8.38	7.97	8.28	8.48	11.79	11.34
4	10.90	11.31	8.72	5.93	9.68	9.71	8.58	7.73	8.21	8.13	10.29	11.52
5	11.16	11.03	10.09	6.07	9.80	9.94	8.90	9.47	9.71	8.19	10.82	11.36
6	11.41	9.39	10.63	2.52	9.97	9.96	9.01	9.74	8.27	9.58	10.27	11.75
7	11.06	10.83	10.29	5.14	9.99	9.92	8.30	9.32	8.13	9.97	10.83	11.48
8	10.93	10.50	9.79	6.49	9.71	9.96	9.25	8.65	8.44	10.19	11.19	11.51
9	9.68	9.26	10.56	6.87	6.79	10.13	9.15	7.95	10.46	10.29	12.17	11.46
10	11.54	11.15	10.65	7.56	8.76	10.90	9.13	9.16	10.39	10.97	12.38	9.92
11	11.61	11.29	10.38	7.69	9.13	11.20	9.25	8.28	8.73	11.23	12.23	9.90
12	11.48	10.77	10.78	5.84	8.89	10.27	9.46	8.15	7.83	11.27	11.57	12.02
13	11.73	9.86	11.04	6.05	9.43	9.34	9.83	7.95	8.92	11.23	11.21	11.65
14	11.70	9.43	11.27	5.53	8.01	9.69	9.97	7.82	7.67	10.88	10.87	11.97
15	11.66	10.99	11.40	6.86	8.15	9.91	10.06	8.59	7.65	10.97	11.01	12.28
16	11.47	10.79	11.68	7.72	8.28	9.13	9.47	11.68	7.75	10.88	11.07	12.29
17	11.15	11.44	11.72	7.85	7.52	8.83	9.74	7.99	7.82	10.84	11.72	11.89
18	10.35	11.52	11.46	8.25	7.67	10.60	9.62	8.10	7.79	10.48	11.16	11.87
19	10.50	11.09	11.51	8.29	9.62	10.26	9.52	8.10	9.53	9.68	12.17	11.33
20	8.93	9.78	11.41	8.41	9.79	10.16	9.77	9.29	10.53	8.73	12.36	11.96
21	9.38	10.67	11.44	8.44	9.07	10.53	9.50	9.48	9.99	10.16	10.99	11.59
22	9.43	11.13	11.34	8.50	8.36	10.70	9.54	9.63	10.09	10.18	10.77	11.83
23	8.90	11.15	11.77	9.16	9.16	10.61	7.58	9.48	10.78	8.75	11.12	11.73
24	8.93	11.33	11.54	9.34	9.36	9.43	7.87	9.49	10.77	10.46	11.89	11.86
25	10.32	11.54	10.18	9.68	9.66	10.00	8.84	9.57	9.18	9.76	11.81	11.95
26	10.98	11.63	11.72	9.93	9.71	8.27	6.63	9.60	9.14	10.51	11.89	11.56
27	9.68	11.25	11.93	10.23	9.82	10.56	8.32	9.50	10.31	10.49	10.28	10.75
28	9.03	11.28	12.08	10.48	9.95	10.48	8.58	9.52	10.57	9.03	11.54	10.80
29	10.71	9.04	12.29	10.41	---	7.78	8.84	9.56	10.29	8.80	11.97	11.10
30	10.82	9.23	12.62	10.47	---	8.64	9.00	10.03	10.51	11.21	11.34	11.30
31	10.59	---	12.14	10.49	---	9.14	---	10.15	---	11.66	11.45	---
MAX	11.73	11.63	12.62	10.49	9.99	11.20	10.06	10.15	10.78	11.66	12.38	12.29
CAL YR 2004	LOW 12.62											
WTR YR 2005	LOW 12.62											



394425083551100. Local Number, GR-10

LOCATION.—Latitude 39°44'25", longitude 83°55'11", Greene County, Hydrologic Unit 05090202, along Massies Creek north of Xenia, Ohio. Owner: City of Xenia.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 835 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter at land-surface datum.

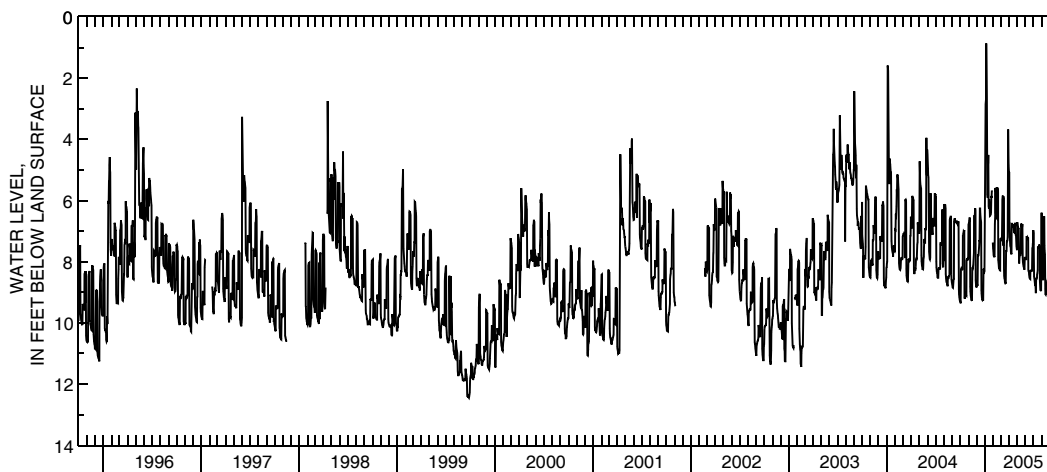
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 20.40 ft below land-surface datum, Nov. 5, 1977; minimum daily low, 0.15 ft below land-surface datum, Feb. 1, 1982.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.28	6.79	8.84	6.93	7.57	7.25	5.07	7.62	7.93	6.97	6.40	8.25
2	9.34	6.75	8.69	6.31	7.67	7.26	5.08	6.71	7.88	7.06	8.21	8.32
3	9.34	6.73	8.71	5.31	7.78	7.27	6.75	6.80	7.91	8.29	8.47	8.37
4	8.25	6.66	8.77	2.85	7.82	7.28	7.17	6.85	7.92	8.49	8.56	8.47
5	8.22	6.58	8.79	2.66	7.84	7.30	7.36	6.88	7.92	8.55	8.58	8.52
6	8.24	6.58	7.76	0.87	7.85	7.30	7.50	6.91	7.17	8.64	8.58	8.89
7	8.24	8.82	7.82	2.17	6.77	5.98	7.54	6.92	7.21	8.75	8.31	9.03
8	8.24	8.97	7.76	2.70	6.49	5.86	7.68	8.01	7.23	8.77	7.65	9.10
9	8.25	9.11	7.68	5.18	5.59	5.84	7.74	8.06	7.21	8.87	7.67	9.21
10	8.23	9.17	7.54	5.80	5.71	7.47	7.76	7.84	7.23	9.03	6.51	9.25
11	7.12	9.25	7.30	5.91	6.40	5.86	6.78	7.80	7.24	8.56	7.47	9.28
12	7.10	9.26	7.33	4.92	6.57	5.94	6.79	7.77	8.26	8.56	7.63	8.95
13	7.05	9.25	6.26	4.77	6.58	8.24	6.78	7.71	8.33	8.54	7.76	8.94
14	7.01	9.27	6.26	4.51	5.60	8.46	6.81	7.73	8.35	8.52	8.89	8.96
15	7.02	8.21	6.44	6.18	5.60	8.57	6.89	7.61	8.42	8.41	9.06	8.96
16	6.97	8.19	6.56	6.27	5.68	8.60	6.83	6.75	8.51	8.37	9.08	8.87
17	9.16	8.20	6.64	5.95	5.58	8.68	6.87	6.78	8.54	8.27	9.02	8.78
18	9.21	8.15	6.71	6.13	5.66	8.71	6.78	6.84	8.56	7.51	8.93	8.77
19	9.05	8.10	8.93	6.32	5.72	8.70	6.99	6.86	8.57	7.57	8.74	8.80
20	8.97	7.92	9.04	6.50	7.94	8.71	7.04	6.87	8.31	7.54	8.77	8.80
21	9.07	7.71	9.18	6.49	8.04	7.66	7.05	6.77	8.31	7.53	8.84	8.78
22	9.09	6.53	9.25	6.46	8.18	7.66	7.05	7.87	8.28	7.46	8.70	8.75
23	9.11	6.48	9.26	6.45	8.20	7.64	6.85	8.00	8.26	7.46	8.72	8.78
24	9.12	6.97	9.24	6.40	8.22	7.32	6.73	8.08	8.30	7.48	8.55	8.78
25	7.96	6.42	9.24	5.85	8.26	7.33	6.89	8.14	8.30	8.59	8.57	9.07
26	7.92	6.25	9.24	5.91	8.28	7.32	7.13	8.18	8.30	8.80	8.54	9.17
27	7.92	6.34	8.23	5.68	8.29	7.20	7.14	8.21	7.56	8.92	8.54	9.21
28	7.91	8.60	8.26	5.70	7.26	5.90	7.26	8.26	7.55	8.93	8.57	9.26
29	7.93	8.77	8.30	---	---	3.68	7.50	8.24	7.43	8.94	8.60	9.22
30	7.93	8.80	8.32	---	---	4.37	7.57	7.87	7.43	8.96	8.56	9.27
31	7.90	---	8.29	7.37	---	4.84	---	7.87	---	6.64	8.33	---
MAX	9.34	9.27	9.26	7.37	8.29	8.71	7.76	8.26	8.57	9.03	9.08	9.28
CAL YR 2004		LOW 9.34										
WTR YR 2005		LOW 9.34										



Ground-Water Records—Hamilton County

391039084291500. Local Number, H-11

LOCATION.—Latitude 39°10'39", longitude 84°29'15", Hamilton County, Hydrologic Unit 05090203, 5.6 mi north of Great American Ball Park in Cincinnati, Ohio. Owner: Procter and Gamble Company.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 6 in., depth 148 ft, cased.

INSTRUMENTATION.—Biyearly measurement with chalked tape by Ohio Department of Natural Resources personnel.

DATUM.—Elevation of land-surface datum is 539 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.23 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1939 to October 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 129.72 ft below land-surface datum, Oct 25, 1948; minimum measured low, 39.56 ft below land-surface datum, Apr. 27, 2005.

WATER LEVEL,
IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
Oct. 28, 2004	40.39
Apr. 27, 2005	39.56

391101084172100. Local Number, H-3

LOCATION.—Latitude 39°11'01", longitude 84°17'21", Hamilton County, Hydrologic Unit 05090202, southeast of Miamiville, Ohio. Owner: Village of Indian Hills.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 4 in., depth 60 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 532.22 ft above sea level. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

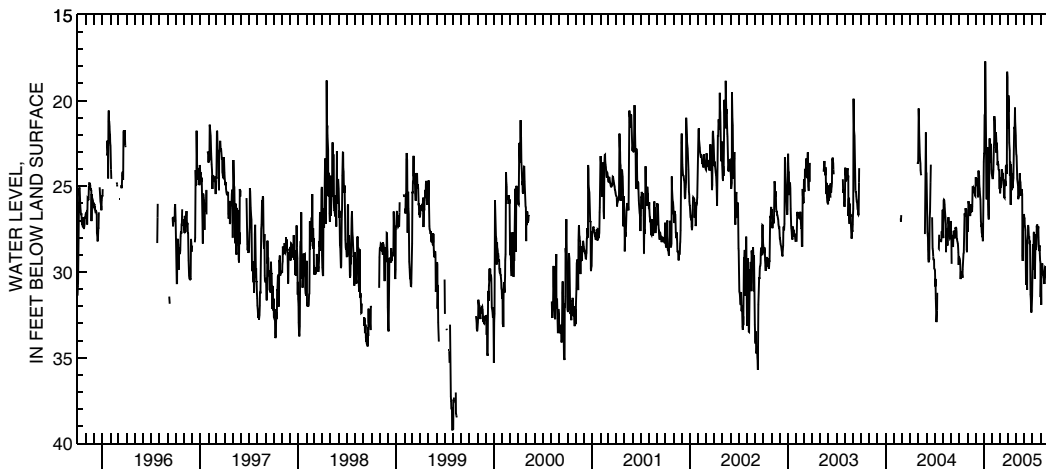
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 39.20 ft below land-surface datum, July 29-31, 1999; minimum daily low, 15.60 ft below land-surface datum, Feb. 28, 1962.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.15	27.53	25.15	23.58	24.40	25.17	20.14	22.65	26.85	30.72	31.47	26.89
2	29.21	26.84	24.47	23.06	24.53	24.49	20.64	23.13	26.87	29.71	30.44	27.11
3	29.23	27.65	24.84	23.08	24.53	25.41	19.70	23.24	27.28	28.37	31.92	27.41
4	29.30	26.34	24.86	20.86	24.53	25.03	20.02	23.48	27.38	28.85	30.22	27.73
5	29.57	25.87	24.89	20.73	24.04	24.73	21.26	24.10	27.56	29.85	29.59	27.97
6	30.42	26.06	24.61	17.71	23.42	25.10	22.46	24.57	28.29	27.72	29.52	28.23
7	29.99	26.15	24.52	19.50	22.71	24.88	22.92	24.80	30.75	27.66	29.50	28.66
8	30.06	26.38	24.60	21.10	22.35	24.09	24.38	24.96	29.87	29.69	29.84	29.05
9	30.16	26.51	24.72	23.62	20.91	24.02	23.57	25.75	30.14	28.09	30.00	29.00
10	30.16	26.65	25.65	24.96	21.16	24.15	25.08	25.67	30.57	30.40	30.03	29.32
11	30.10	26.73	24.41	25.76	21.77	24.65	26.09	25.59	31.04	29.81	30.18	29.71
12	30.17	26.47	24.09	23.00	22.48	24.22	23.72	25.52	28.23	28.54	30.16	29.72
13	30.34	26.10	24.44	23.54	22.03	24.45	24.28	25.24	28.05	27.81	30.41	29.43
14	29.85	26.07	24.43	22.73	21.90	24.62	25.23	24.65	27.79	28.66	30.67	29.46
15	29.47	26.29	24.92	23.64	21.85	24.80	25.19	24.25	27.27	28.71	30.70	28.71
16	29.13	26.42	25.14	25.22	22.26	24.90	24.38	24.68	27.42	28.37	30.02	29.20
17	28.94	26.46	25.31	26.07	23.05	25.61	24.26	24.77	27.62	27.30	29.71	28.76
18	28.87	26.45	25.58	26.66	22.46	25.65	25.11	24.94	27.99	27.42	29.72	28.61
19	27.69	26.19	25.78	26.93	22.87	25.68	24.79	25.52	27.98	27.23	29.99	28.79
20	27.27	25.06	26.37	24.89	22.93	24.62	24.75	25.49	28.27	27.78	30.21	28.05
21	26.59	25.07	27.04	23.19	23.77	24.66	24.51	25.54	28.25	27.68	30.22	28.39
22	26.69	25.26	27.27	22.25	23.56	24.73	23.90	25.16	28.41	27.51	30.15	28.97
23	26.77	25.39	27.26	22.25	23.69	24.99	23.23	25.31	28.81	27.34	30.44	29.25
24	26.57	25.27	27.70	23.57	23.73	23.82	21.56	25.46	31.31	27.98	30.70	29.21
25	26.28	25.11	27.80	23.54	24.02	24.28	21.58	29.06	31.60	28.50	30.47	29.29
26	26.42	25.15	27.90	23.13	24.06	23.75	21.50	29.36	32.11	28.78	30.24	29.31
27	26.35	25.25	27.89	23.58	24.06	24.29	20.41	26.83	32.37	28.53	30.14	29.26
28	26.91	25.36	28.20	22.52	24.69	24.08	21.15	26.66	32.26	28.45	30.64	29.32
29	28.69	25.54	28.10	24.00	---	18.31	21.66	26.73	31.99	28.91	30.70	29.34
30	28.85	25.57	27.55	24.29	---	18.64	22.05	26.73	31.41	29.34	30.22	29.45
31	27.12	---	27.04	24.31	---	21.63	---	26.71	---	29.45	28.20	---
MAX	30.42	27.65	28.20	26.93	24.69	25.68	26.09	29.36	32.37	30.72	31.92	29.72
CAL YR 2004	LOW 32.92											
WTR YR 2005	LOW 32.37											



391201084281600. Local Number, H-10

LOCATION.—Latitude 39°12'01", longitude 84°28'16", Hamilton County, Hydrologic Unit 05090203, Section Road, Cincinnati, Ohio. Owner: National Distillers.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 170 ft, cased.

INSTRUMENTATION.—Digital recorder—60-minute punch.

DATUM.—Elevation of land-surface datum is 544.7 ft above sea level. Measuring point: Floor of instrument shelter 8.13 ft above land-surface datum.

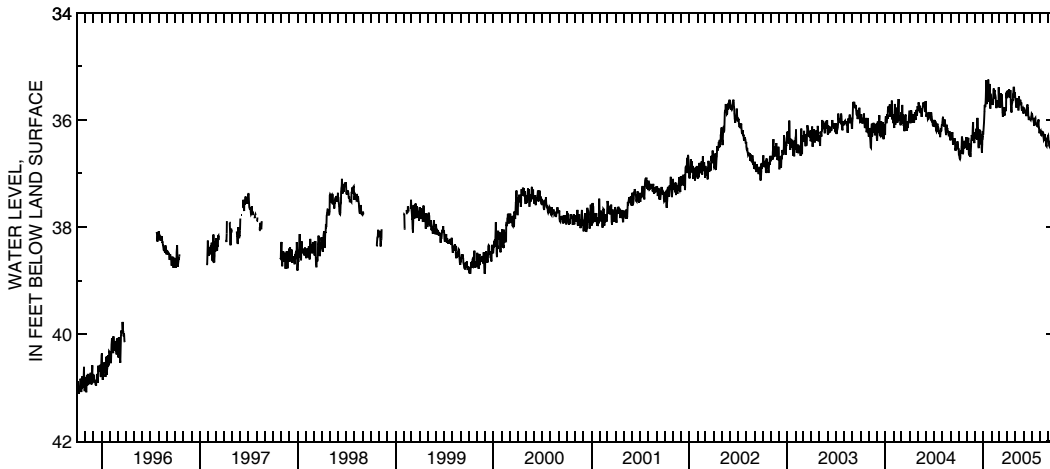
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 121.58 ft below land-surface datum, Nov. 3, 10, 1950; minimum daily low, 35.26 ft below land-surface datum, Jan. 12, 19-20, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.53	36.49	36.35	36.27	35.67	35.65	35.59	35.61	35.83	35.88	36.19	36.33
2	36.64	36.52	36.33	36.18	35.66	35.73	35.45	35.63	35.79	35.89	36.21	36.40
3	36.64	36.56	36.28	36.14	35.63	35.77	35.52	35.69	35.77	35.91	36.20	36.44
4	36.67	36.40	36.23	36.05	35.68	35.65	35.56	35.76	35.80	35.95	36.23	36.48
5	36.72	36.48	36.33	35.84	35.72	35.77	35.54	35.76	35.83	35.97	36.28	36.50
6	36.73	36.33	36.16	35.72	35.66	35.73	35.56	35.66	35.84	35.99	36.29	36.51
7	36.71	36.49	36.22	35.73	35.55	35.50	35.43	35.59	35.85	35.99	36.25	36.48
8	36.59	36.62	36.37	35.76	35.45	35.73	35.53	35.66	35.84	36.04	36.26	36.39
9	36.57	36.66	36.20	35.72	35.41	35.74	35.56	35.64	35.89	36.07	36.26	36.40
10	36.63	36.52	35.96	35.61	35.61	35.67	35.57	35.62	35.93	36.11	36.22	36.47
11	36.61	36.44	36.16	35.42	35.58	35.52	35.58	35.72	35.90	36.01	36.26	36.53
12	36.50	36.52	36.15	35.26	35.44	35.64	35.44	35.82	35.83	35.99	36.24	36.47
13	36.31	36.65	36.37	35.41	35.48	35.79	35.64	35.75	35.76	35.97	36.25	36.39
14	36.33	36.69	36.51	35.68	35.52	35.86	35.71	35.56	35.72	35.96	36.34	36.38
15	36.37	36.61	36.51	35.70	35.54	35.94	35.79	35.65	35.71	36.03	36.37	36.46
16	36.55	36.49	36.35	35.57	35.58	35.91	35.86	35.69	35.79	36.06	36.36	36.44
17	36.64	36.39	36.33	35.62	35.67	35.78	35.76	35.72	35.79	36.07	36.34	36.48
18	36.61	36.35	36.18	35.65	35.72	35.78	35.69	35.70	35.92	36.06	36.26	36.52
19	36.41	36.28	36.36	35.26	35.78	35.79	35.67	35.62	35.97	36.09	36.34	36.55
20	36.48	36.31	36.34	35.26	35.70	35.88	35.61	35.66	36.00	36.10	36.35	36.52
21	36.52	36.39	36.20	35.41	35.63	35.92	35.65	35.72	35.96	36.08	36.39	36.51
22	36.53	36.28	36.29	35.49	35.73	35.89	35.52	35.70	35.97	36.08	36.37	36.40
23	36.39	36.13	36.43	35.66	35.75	35.76	35.50	35.67	36.00	36.13	36.43	36.51
24	36.43	36.04	36.45	35.56	35.68	35.84	35.40	35.77	35.98	36.07	36.48	36.52
25	36.48	36.29	36.34	35.33	35.68	35.78	35.38	35.83	35.98	36.03	36.49	36.47
26	36.51	36.30	36.51	35.61	35.75	35.82	35.40	35.81	35.99	35.99	36.36	36.46
27	36.51	36.23	36.61	35.79	35.72	35.77	35.57	35.79	36.00	36.12	36.33	36.53
28	36.51	36.41	36.46	35.78	35.39	35.49	35.57	35.78	35.97	36.15	36.38	36.44
29	36.35	36.43	36.31	35.56	---	35.59	35.48	35.83	35.94	36.20	36.38	36.56
30	36.32	36.30	36.32	35.55	---	35.47	35.57	35.83	35.92	36.25	36.30	36.53
31	36.49	---	36.22	35.64	---	35.57	---	35.88	---	36.22	36.29	---
MAX	36.73	36.69	36.61	36.27	35.78	35.94	35.86	35.88	36.00	36.25	36.49	36.56
CAL YR 2004	LOW 36.73											
WTR YR 2005	LOW 36.73											



391214084470100. Local Number, H-1

LOCATION.—Latitude 39°12'14", longitude 84°47'01", Hamilton County, Hydrologic Unit 05080003, Kilby Road 4 mi southeast of Harrison, Ohio. Owner: Robert Weber.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water-table well, diameter 6 in., depth 124 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval. Satellite telemeter at site.

DATUM.—Elevation of land-surface datum is 500 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.70 ft above land-surface datum.

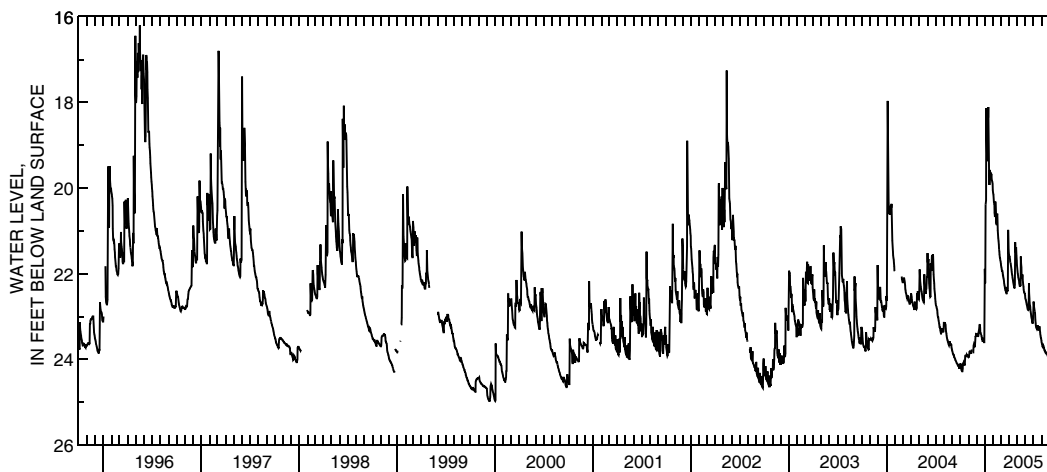
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—February 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 25.95 ft below land-surface datum, Oct. 26 and 27, 1988; minimum daily low, 14.00 ft below land-surface datum, Jan. 22, 1959.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.11	23.96	23.45	21.89	20.12	21.72	21.55	21.80	22.57	22.91	23.60	23.70
2	24.11	23.95	23.39	22.23	20.16	21.78	21.60	21.88	22.60	22.65	23.63	23.76
3	24.11	23.93	23.40	22.20	20.21	21.82	21.59	21.96	22.61	22.74	23.66	23.76
4	24.12	23.88	23.43	20.39	20.33	21.86	21.63	22.00	22.64	22.78	23.70	23.78
5	24.23	23.82	23.45	20.29	20.38	21.90	21.68	22.04	22.67	22.83	23.71	23.82
6	24.26	23.81	23.46	18.14	20.58	21.93	21.74	22.08	22.70	22.88	23.68	23.88
7	24.27	23.82	23.46	18.76	20.66	21.94	21.77	22.13	22.75	22.92	23.69	23.93
8	24.28	23.83	23.42	19.12	20.66	21.99	21.80	22.16	22.78	23.08	23.71	23.95
9	24.28	23.84	23.35	19.31	20.32	22.03	21.86	22.22	22.81	23.16	23.73	23.97
10	24.22	23.85	23.32	19.34	20.50	22.06	21.91	22.26	22.84	23.21	23.76	23.99
11	24.13	23.87	23.24	19.33	20.59	22.09	21.96	22.30	22.85	23.26	23.79	24.00
12	24.10	23.83	23.20	18.37	20.79	22.12	22.01	22.28	22.84	23.28	23.79	24.03
13	24.10	23.77	23.20	18.35	20.85	22.18	22.04	22.27	22.81	23.28	23.81	24.05
14	24.08	---	23.26	18.11	20.85	22.23	22.09	22.27	22.23	23.30	23.82	24.07
15	24.10	---	23.38	19.02	20.66	22.27	22.13	21.60	22.45	23.29	23.84	24.07
16	24.12	---	23.39	19.42	20.60	22.31	22.18	21.77	22.57	23.26	23.84	24.08
17	24.13	---	23.40	19.74	20.68	22.34	22.21	21.85	22.67	23.24	23.86	24.06
18	24.13	23.84	23.43	19.93	20.99	22.38	22.25	22.03	22.74	23.21	23.87	24.06
19	23.97	23.84	23.45	19.79	21.10	22.39	22.29	22.08	22.78	23.27	23.87	24.08
20	23.92	23.68	23.46	19.58	21.17	22.41	22.32	22.11	22.84	23.31	23.86	24.06
21	23.92	23.65	23.52	19.65	21.24	22.44	22.33	22.02	22.90	23.31	23.85	24.06
22	23.93	23.66	23.52	19.65	21.33	22.46	22.33	22.11	22.95	23.31	23.89	23.99
23	23.93	23.67	23.57	19.73	21.43	22.46	22.26	22.17	22.99	23.23	23.92	23.97
24	23.90	23.69	23.57	19.76	21.49	22.31	21.27	22.26	23.03	23.24	23.94	23.94
25	23.89	23.72	23.57	19.67	21.55	22.38	21.43	22.31	23.06	23.31	23.96	23.94
26	23.91	23.60	23.56	19.75	21.62	22.40	21.50	22.38	23.11	23.37	23.97	23.90
27	23.91	23.46	23.58	19.81	21.65	22.40	21.40	22.42	23.15	23.42	23.99	23.89
28	23.92	23.47	23.60	19.84	21.70	22.35	21.40	22.43	23.17	23.46	24.02	23.89
29	23.93	23.43	23.60	19.86	---	20.98	21.58	22.46	23.14	23.50	24.03	23.92
30	23.94	23.44	23.60	19.91	---	21.27	21.70	22.47	23.02	23.52	24.03	23.95
31	23.95	---	23.26	20.05	---	21.45	---	22.51	---	23.57	23.85	---
MAX	24.28	23.96	23.60	22.23	21.70	22.46	22.33	22.51	23.17	23.57	24.03	24.08
CAL YR 2004	LOW 24.28											
WTR YR 2005	LOW 24.28											



391341084275300. Local Number, H-8

LOCATION.—Latitude 39°13'41", longitude 84°27'53", Hamilton County, Hydrologic Unit 05090203, Vine and Water Streets, Wyoming, Ohio. Owner: City of Wyoming.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 194 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 576.2 ft above sea level. Measuring point: Top of platform 3.30 ft above land-surface datum.

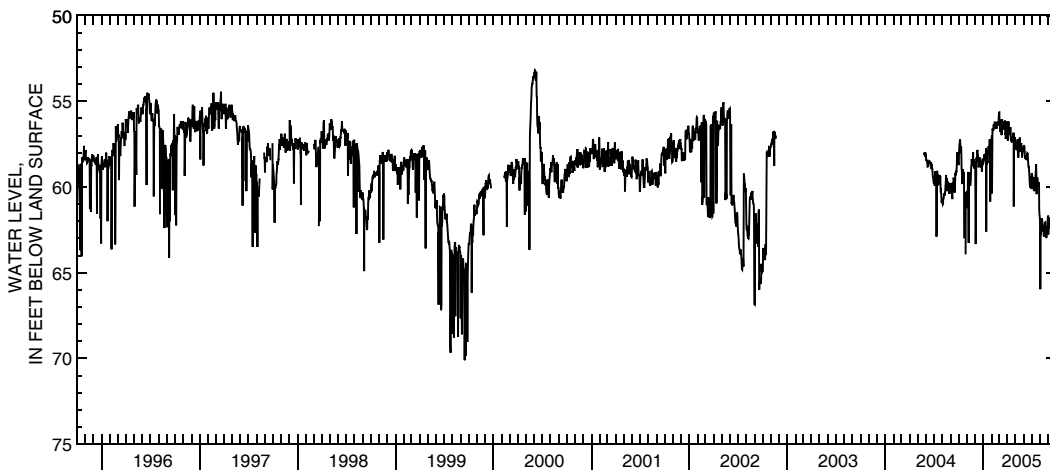
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 148.86 ft below land-surface datum, Dec. 1, 1948; minimum daily low, 53.19 ft below land-surface datum, June 4, 2000.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.72	60.39	58.68	58.60	57.73	55.66	56.63	57.52	57.72	59.20	62.10	62.78
2	58.34	60.31	58.51	58.55	57.02	55.65	56.87	57.54	57.56	59.28	65.97	61.78
3	58.14	60.23	62.39	58.33	60.38	56.19	57.30	57.65	57.62	59.38	62.66	61.94
4	57.56	61.24	63.33	58.49	56.60	56.17	57.16	57.84	57.66	59.85	62.68	62.17
5	57.44	59.79	62.47	58.09	56.67	56.78	56.18	57.77	58.12	59.69	62.59	62.43
6	57.23	59.12	58.33	58.23	56.69	56.31	56.82	57.66	58.28	59.43	62.04	62.20
7	57.44	63.28	58.28	58.23	56.69	56.25	56.53	57.60	58.36	59.74	61.88	62.11
8	57.91	59.69	58.54	58.43	56.39	56.70	56.59	57.86	58.17	60.16	61.88	61.97
9	57.94	59.64	58.03	58.16	56.39	56.64	56.97	57.23	58.36	60.17	62.05	61.99
10	57.64	59.36	57.84	58.18	56.59	56.98	56.84	58.10	58.39	60.25	62.16	62.41
11	57.86	59.20	58.27	57.75	56.59	56.12	56.77	58.25	58.37	60.16	62.41	62.51
12	58.95	59.15	58.09	62.61	56.24	56.05	56.51	58.29	58.17	59.97	62.39	62.44
13	59.10	59.93	58.54	57.90	56.24	56.37	56.97	57.96	58.23	59.69	62.53	62.17
14	59.75	59.77	58.86	58.54	56.25	56.51	57.19	57.84	58.03	59.48	62.68	61.97
15	59.83	59.62	58.78	58.57	56.25	56.62	57.31	57.83	58.04	59.38	62.89	61.99
16	58.97	59.18	58.66	58.49	56.44	56.62	57.37	57.39	58.24	59.03	62.48	61.92
17	59.17	58.86	58.60	58.60	56.53	56.32	57.37	57.11	58.39	58.69	62.22	61.80
18	59.40	58.68	58.27	58.46	56.53	56.23	57.25	57.96	58.72	59.55	62.31	62.26
19	59.15	58.38	58.66	57.85	56.57	56.23	57.11	57.68	58.86	60.43	62.09	62.06
20	59.15	58.54	58.46	57.64	56.57	56.48	57.03	57.47	58.81	59.59	62.07	61.79
21	59.17	58.71	58.35	57.71	56.19	56.53	57.36	57.62	59.05	59.45	62.26	61.67
22	63.00	58.49	58.46	57.65	56.39	56.53	56.85	57.49	59.35	59.50	62.38	61.49
23	---	58.41	58.80	57.89	56.39	56.13	57.11	57.44	59.64	59.61	62.53	61.48
24	---	57.97	58.86	57.43	56.33	56.95	56.84	57.68	59.92	60.05	62.98	61.29
25	---	58.80	58.65	57.20	56.33	56.84	61.14	57.89	60.03	59.84	62.90	61.19
26	---	58.73	58.86	57.52	56.36	57.20	57.05	58.28	59.71	59.73	62.51	61.28
27	63.93	58.40	59.10	60.86	56.36	56.96	57.45	58.06	59.59	59.79	62.41	61.28
28	60.57	58.92	58.66	57.82	55.93	56.15	57.34	57.84	59.41	59.74	62.58	60.98
29	60.35	58.86	58.62	57.37	---	56.85	57.10	57.85	59.62	61.30	62.39	61.23
30	60.30	58.62	58.50	57.47	---	56.42	57.30	57.75	60.12	61.66	61.68	61.06
31	60.65	---	58.51	57.53	---	56.40	---	57.77	---	61.80	61.71	---
MAX	63.93	63.28	63.33	62.61	60.38	57.20	61.14	58.29	60.12	61.80	65.97	62.78
CAL YR 2004	LOW 63.93											
WTR YR 2005	LOW 65.97											



391442084262900. Local Number, H-7

LOCATION.—Latitude 39°14'42", longitude 84°26'29", Hamilton County, Hydrologic Unit 05090203, at Evendale, Ohio. Owner: General Electric Corp.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 6 in., depth 180 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 555.40 ft above sea level. Measuring point: Floor of instrument shelter 7.78 ft above land-surface datum.

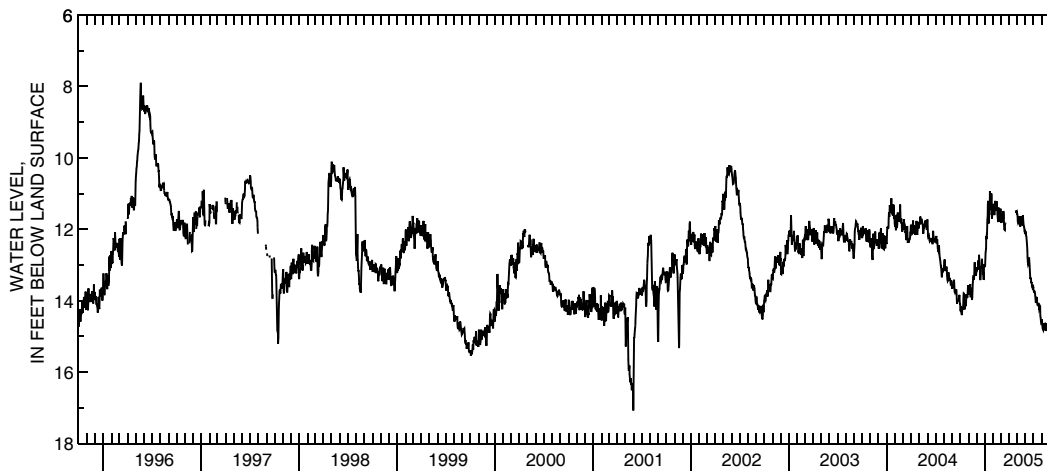
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1941 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 101.09 ft below land-surface datum, Jan. 29, 1964; minimum daily low, 7.90 ft below land-surface datum, May 20, 1996.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.11	13.76	13.15	13.06	11.48	11.45	---	11.59	12.12	13.63	14.52	14.65
2	14.25	13.67	13.18	13.03	11.49	11.72	---	11.57	12.08	13.73	14.63	14.72
3	14.30	13.84	13.09	12.87	11.44	11.82	---	11.65	12.09	13.75	14.68	14.76
4	14.17	13.71	13.09	12.65	11.54	11.77	---	11.78	12.17	13.77	14.71	14.78
5	14.33	13.70	13.14	12.56	11.61	11.79	---	11.82	12.21	13.73	14.80	14.78
6	14.39	13.65	13.07	12.19	11.56	11.81	---	11.84	12.27	13.77	14.83	14.74
7	14.39	13.54	12.88	12.28	11.48	11.59	---	11.82	12.44	13.81	14.80	14.66
8	14.33	13.84	13.14	12.13	11.28	11.63	---	11.84	12.59	13.91	14.71	14.54
9	14.19	13.91	13.12	12.13	11.21	11.75	---	11.76	12.78	14.02	14.67	14.49
10	14.26	13.83	12.72	11.73	11.43	11.70	---	11.64	12.93	14.07	14.63	14.60
11	14.23	13.65	12.88	11.64	11.47	11.49	---	11.71	13.00	14.02	14.67	14.67
12	14.14	13.68	12.92	11.31	11.38	11.58	---	11.91	12.99	13.92	14.70	14.63
13	13.86	13.92	13.09	11.21	11.35	11.85	---	11.91	12.86	13.92	14.68	14.49
14	13.80	13.98	13.38	11.76	11.22	11.95	---	11.66	12.85	13.94	14.78	14.42
15	13.81	13.90	13.43	11.84	11.37	12.02	---	11.67	12.80	14.03	14.83	14.53
16	14.05	13.66	13.31	11.74	11.45	12.03	---	11.72	12.96	14.11	14.83	14.56
17	14.23	13.50	13.12	11.57	11.58	11.89	---	11.73	13.02	14.14	14.80	14.63
18	14.23	13.41	13.04	11.60	11.70	11.84	---	11.70	13.21	14.12	14.67	14.69
19	14.00	13.36	13.07	11.31	11.80	11.82	---	11.65	13.36	14.11	14.64	14.73
20	14.08	13.29	13.11	10.94	11.78	---	---	11.67	13.40	14.16	14.68	14.64
21	14.14	13.42	12.83	11.10	11.40	---	---	11.89	13.36	14.17	14.72	14.58
22	14.14	13.38	13.00	11.04	11.64	---	---	11.89	13.40	14.18	14.66	14.45
23	14.04	13.12	13.16	11.42	11.73	---	---	11.61	13.51	14.27	14.66	14.43
24	13.82	12.93	13.28	11.42	11.66	---	---	11.74	13.48	14.26	14.76	14.47
25	13.89	13.13	13.23	11.00	11.66	---	---	11.86	13.55	14.15	14.81	14.42
26	13.93	13.19	13.20	11.08	11.77	---	---	11.90	13.61	14.17	14.75	14.21
27	13.89	13.14	13.42	11.66	11.78	---	11.47	11.93	13.64	14.42	14.59	14.33
28	13.92	13.24	13.40	11.71	11.43	---	11.54	11.97	13.62	14.48	14.66	14.29
29	13.79	13.30	13.03	11.55	---	---	11.51	12.07	13.61	14.54	14.65	14.32
30	13.57	13.21	13.06	11.29	---	---	11.50	12.08	13.64	14.61	14.61	14.35
31	13.75	---	12.98	11.38	---	---	---	12.14	---	14.59	14.56	---
MAX	14.39	13.98	13.43	13.06	11.80	12.03	11.54	12.14	13.64	14.61	14.83	14.78
CAL YR 2004		LOW 14.39										
WTR YR 2005		LOW 14.83										



391608084254400. Local Number, H-6

LOCATION.—Latitude 39°16'08", longitude 84°25'44", Hamilton County, Hydrologic Unit 05090203, in Glendale, Ohio. Owner: City of Glendale.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 167 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 570.65 ft above sea level. Measuring point: Floor of instrument shelter 4.05 ft above land-surface datum.

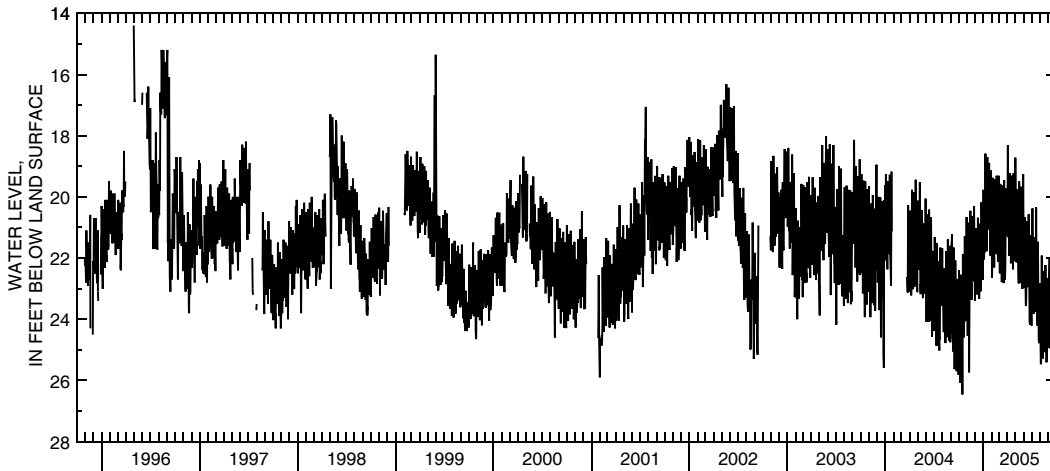
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 84.10 ft below land-surface datum, Oct. 14, 1960; minimum daily low, 14.40 ft below land-surface datum, Apr. 30, 1996.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.82	22.01	23.39	20.39	21.35	21.99	21.27	18.72	21.90	24.21	24.30	24.50
2	24.08	23.82	23.01	19.77	21.68	21.97	19.40	20.47	21.92	22.79	24.93	24.93
3	22.40	24.11	23.01	21.17	22.65	22.01	18.31	21.42	22.98	20.61	25.29	24.14
4	23.82	24.54	22.11	22.05	22.14	22.50	19.88	21.99	21.48	20.38	25.47	22.67
5	25.35	23.15	21.03	21.62	20.73	21.36	21.33	22.08	20.67	22.04	25.43	22.01
6	25.76	21.95	21.95	21.30	19.38	19.58	20.94	22.14	22.02	23.04	23.82	22.97
7	25.29	20.85	22.53	21.81	19.70	20.51	21.15	20.58	22.83	23.16	21.92	24.15
8	26.08	22.49	22.72	20.58	21.83	21.81	21.93	19.75	23.48	23.82	23.66	24.29
9	23.97	25.74	23.03	18.59	21.36	21.65	20.87	20.58	23.57	22.05	24.77	24.97
10	22.55	23.21	23.19	19.52	21.99	21.75	19.23	21.42	23.34	21.33	24.72	24.42
11	24.11	22.82	21.62	21.18	22.31	22.79	20.33	21.90	22.16	22.26	25.28	22.46
12	25.92	23.37	20.69	21.26	21.26	21.47	21.20	22.50	20.80	23.72	24.99	23.88
13	24.32	21.97	22.05	20.60	19.43	19.64	21.36	22.83	21.52	23.30	23.81	24.63
14	24.45	20.46	22.56	21.78	20.43	21.03	22.17	20.84	22.32	22.90	22.43	24.69
15	26.46	21.69	22.56	20.58	21.78	21.60	21.60	19.50	22.52	23.76	23.82	25.11
16	23.16	22.85	22.50	18.70	21.42	22.52	20.49	21.03	22.95	22.57	24.36	25.26
17	21.87	22.85	23.34	19.43	21.48	22.04	19.31	21.71	22.88	20.34	24.68	23.85
18	23.07	22.91	22.59	20.93	21.87	22.82	21.22	22.31	21.59	22.17	24.89	23.18
19	24.60	23.36	20.88	20.58	20.96	21.17	21.45	22.82	20.57	23.07	25.07	24.26
20	24.02	21.41	21.77	20.94	19.31	19.45	21.87	22.20	22.43	23.13	23.96	24.60
21	23.49	20.64	22.79	21.06	21.21	20.99	21.72	20.79	23.39	23.82	22.23	24.42
22	24.12	21.77	22.98	20.46	21.53	22.59	22.37	19.67	23.82	24.21	24.06	24.65
23	23.08	21.93	23.09	18.89	21.80	22.72	20.19	20.85	24.06	23.24	24.54	24.84
24	21.28	22.76	21.35	19.70	21.68	22.37	19.22	21.87	24.17	21.47	25.38	24.38
25	22.16	21.81	20.18	20.45	22.11	21.75	20.42	21.95	22.82	22.35	25.41	22.64
26	23.63	21.26	20.49	21.12	21.38	20.81	21.06	22.43	21.26	23.87	25.32	23.37
27	23.25	20.69	21.21	21.92	19.31	19.71	21.45	23.01	22.61	24.65	24.17	23.70
28	24.06	20.30	21.51	21.65	19.95	20.18	21.51	22.37	23.37	24.78	22.65	24.15
29	23.97	21.32	21.80	20.18	---	21.21	22.10	20.52	23.93	24.09	23.55	24.33
30	22.32	22.02	21.62	19.14	---	20.63	19.95	19.27	24.01	24.12	24.22	24.71
31	20.66	---	22.72	21.24	---	20.84	---	20.60	---	22.82	24.18	---
MAX	26.46	25.74	23.39	22.05	22.65	22.82	22.37	23.01	24.17	24.78	25.47	25.26
CAL YR 2004	LOW 26.46											
WTR YR 2005	LOW 26.46											



391733084392400. Local Number, H-2

LOCATION.—Latitude 39°17'33", longitude 84°39'24", Hamilton County, Hydrologic Unit 05080002, East Miami River Road 1.5 mi south of Ross, Ohio. Owner: Lee Wilhelm.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 89 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 534.21 ft above sea level. Measuring point: Floor of instrument shelter 8.97 ft above land-surface datum.

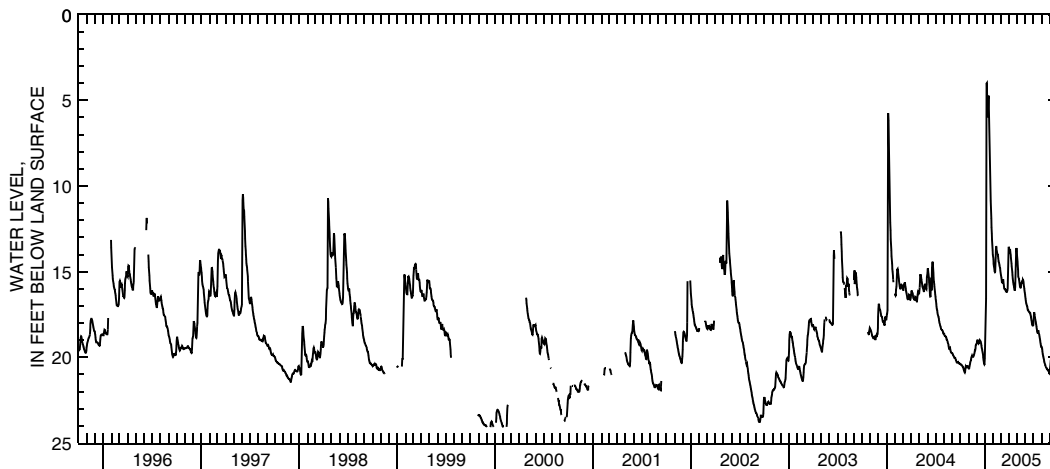
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 24.37 ft below land-surface datum, Sept. 13 and 14, 24 and 25, 1972; minimum daily low 2.63 ft below land-surface datum, June, 16, 1958. (Water level above land surface but could not be measured during Jan. 1959 flood.)

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.39	20.61	19.22	20.07	14.12	15.08	13.59	14.00	16.47	18.14	19.41	20.70
2	20.40	20.66	19.19	19.41	14.28	15.21	13.74	14.22	16.59	17.88	19.45	20.51
3	20.42	20.66	19.10	18.77	14.54	15.27	13.80	14.43	16.70	17.55	19.53	20.34
4	20.43	20.63	19.02	18.00	14.70	15.36	13.75	14.67	16.80	17.37	19.65	20.22
5	20.45	20.54	19.02	16.58	14.85	15.53	13.68	14.87	16.88	17.43	19.80	20.09
6	20.46	20.42	19.10	10.16	14.99	15.63	13.83	15.29	16.94	17.56	19.92	19.98
7	20.47	20.31	19.15	4.02	15.03	15.66	14.04	15.39	17.00	17.70	19.98	19.98
8	20.49	20.24	19.19	3.99	15.00	15.65	14.18	15.44	17.07	17.82	20.07	20.04
9	20.51	20.19	19.17	4.62	14.64	15.57	14.35	15.53	17.16	17.91	20.15	20.13
10	20.54	20.16	19.08	5.48	14.19	15.45	14.52	15.66	17.24	17.99	20.22	20.24
11	20.57	20.07	19.02	5.94	13.77	15.56	14.69	15.81	17.24	18.08	20.30	20.33
12	20.60	19.97	19.00	5.94	13.50	15.72	14.84	15.89	17.30	18.20	20.36	20.42
13	20.66	19.92	19.05	5.33	13.59	15.87	15.03	15.93	17.31	18.30	20.42	20.51
14	20.73	19.90	19.05	4.89	13.80	15.98	15.20	15.93	17.33	18.40	20.46	20.61
15	20.79	19.94	19.05	4.73	13.86	16.02	15.42	15.87	17.36	18.51	20.51	20.72
16	20.84	19.94	19.08	5.48	13.94	16.02	15.57	15.80	17.37	18.57	20.55	20.81
17	20.87	19.95	19.11	6.20	14.00	16.02	15.66	15.66	17.37	18.57	20.58	20.81
18	20.90	19.97	19.20	6.87	14.01	16.05	15.76	15.63	17.40	18.53	20.61	20.69
19	20.84	19.97	19.31	7.73	14.10	16.11	15.85	15.68	17.42	18.42	20.64	20.47
20	20.72	19.92	19.41	8.56	14.22	16.14	15.96	15.68	17.49	18.50	20.67	20.31
21	20.58	19.88	19.52	9.30	14.37	16.17	16.02	15.66	17.56	18.59	20.67	20.22
22	20.54	19.83	19.58	10.19	14.46	16.19	16.08	15.63	17.65	18.66	20.70	20.15
23	20.57	19.77	19.65	10.88	14.49	16.19	16.08	15.48	17.75	18.70	20.73	20.22
24	20.58	19.68	19.74	11.48	14.58	16.19	15.90	15.51	17.85	18.80	20.76	20.31
25	20.57	19.59	19.86	11.91	14.65	16.10	15.45	15.62	17.97	18.90	20.76	20.36
26	20.52	19.59	20.01	12.42	14.76	16.10	14.76	15.72	18.06	19.02	20.78	20.34
27	20.51	19.50	20.16	12.80	14.82	15.98	14.22	15.87	18.12	19.11	20.81	20.13
28	20.51	19.32	20.27	13.11	14.94	15.72	13.82	16.00	18.15	19.20	20.87	19.85
29	20.51	19.26	20.37	13.41	---	14.96	13.62	16.11	18.15	19.29	20.94	19.56
30	20.55	19.23	20.42	13.75	---	13.97	13.82	16.23	18.15	19.38	20.96	19.41
31	20.60	---	20.40	14.01	---	13.55	---	16.35	---	19.38	20.78	---
MAX	20.90	20.66	20.42	20.07	15.03	16.19	16.08	16.35	18.15	19.38	20.96	20.81
CAL YR 2004	LOW 20.90											
WTR YR 2005	LOW 20.96											



391817084393300. Local Number, H-4

LOCATION.—Latitude 39°18'17", longitude 84°39'33", Hamilton County, Hydrologic Unit 05080002, 0.7 mi southwest of Ross, Ohio. Owner: Southwestern Ohio Water Company.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 541.57 ft above sea level. (Levels by Miami Conservancy District.) Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

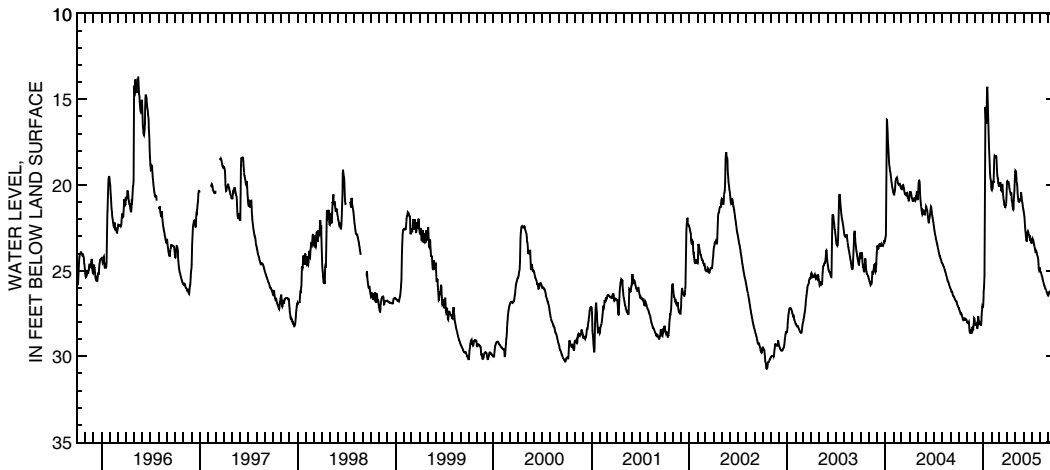
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—December 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 32.23 ft below land-surface datum, Dec. 5, 1971; minimum daily low, 11.60 ft below land-surface datum, June 16, 1958.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.17	27.96	28.10	27.03	20.27	20.04	19.77	19.17	21.57	23.39	25.01	26.42
2	27.21	27.99	28.15	26.64	20.30	20.01	19.85	19.20	21.66	23.28	25.07	26.34
3	27.21	28.04	28.18	26.18	20.24	20.07	19.86	19.28	21.75	23.16	25.08	26.28
4	27.29	28.05	28.18	26.01	20.22	20.07	19.83	19.34	21.89	23.13	25.11	26.25
5	27.36	28.05	28.14	25.31	20.10	19.89	19.83	19.61	22.20	23.21	25.17	26.22
6	27.40	28.02	28.10	23.58	19.86	19.83	19.92	19.85	22.49	23.22	25.26	26.22
7	27.45	28.01	28.17	18.31	19.80	20.07	20.04	19.94	22.70	23.28	25.31	26.28
8	27.51	27.99	28.28	16.16	19.88	20.30	20.16	20.24	22.88	23.39	25.35	26.31
9	27.54	28.20	28.35	15.44	19.56	20.31	20.24	20.47	23.03	23.47	25.41	26.36
10	27.56	28.41	28.35	15.84	18.81	20.34	20.34	20.69	23.18	23.55	25.49	26.38
11	27.53	28.58	28.22	16.41	18.50	20.16	20.40	20.85	23.28	23.61	25.55	26.42
12	27.57	28.63	27.88	16.43	18.30	20.01	20.46	20.94	23.28	23.70	25.62	26.46
13	27.63	28.62	27.66	16.11	18.33	20.00	20.57	20.97	23.10	23.78	25.68	26.49
14	27.68	28.49	27.81	15.44	18.39	20.03	20.58	20.99	22.86	23.85	25.73	26.54
15	27.75	28.43	27.90	14.39	18.39	20.40	20.42	20.97	22.74	23.93	25.80	26.60
16	27.80	28.52	28.01	14.28	18.33	20.61	20.57	20.87	22.70	23.93	25.85	26.64
17	27.86	28.58	28.11	15.15	18.31	20.73	20.81	20.78	22.72	23.85	25.89	26.64
18	27.90	28.65	28.11	15.92	18.31	20.88	21.00	20.84	22.79	23.87	25.95	26.63
19	27.90	28.65	27.99	16.53	18.42	20.97	21.06	20.90	22.85	23.94	26.00	26.57
20	27.88	28.63	27.95	16.85	18.66	21.11	21.20	20.90	22.89	24.02	26.04	26.51
21	27.88	28.46	28.08	17.30	19.11	21.17	21.33	20.85	22.94	24.08	26.07	26.48
22	27.84	28.28	28.18	17.70	19.40	21.17	21.41	20.43	23.00	24.14	26.10	26.48
23	27.75	28.40	28.18	18.06	19.50	21.29	21.44	20.57	23.06	24.20	26.15	26.48
24	27.84	28.43	28.11	18.50	19.65	21.30	21.35	20.70	23.12	24.24	26.19	26.55
25	27.86	28.41	27.93	18.86	19.65	21.18	20.90	20.84	23.09	24.36	26.24	26.58
26	27.87	28.15	27.62	19.20	19.88	21.18	20.60	20.96	23.18	24.63	26.27	26.58
27	27.87	27.98	27.36	19.47	19.89	21.09	20.33	21.06	23.25	24.89	26.31	26.49
28	27.87	27.77	27.20	19.62	20.04	21.05	20.06	21.18	23.31	24.95	26.36	26.38
29	27.84	27.80	27.06	19.70	---	20.58	19.56	21.30	23.36	24.93	26.40	26.31
30	27.86	27.93	27.09	19.81	---	20.03	19.26	21.39	23.39	24.86	26.45	26.30
31	27.92	---	27.17	20.06	---	19.79	---	21.48	---	24.86	26.46	---
MAX	27.92	28.65	28.35	27.03	20.30	21.30	21.44	21.48	23.39	24.95	26.46	26.64
CAL YR 2004	LOW 28.65											
WTR YR 2005	LOW 28.65											



Ground-Water Records—Hardin County

404218083503700. Local Number, HN-1

LOCATION.—Latitude 40°42'18", longitude 83°50'37", Hardin County, Hydrologic Unit 05060001, at grain elevator in Alger. Owner: Village of Alger.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 40 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 975 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

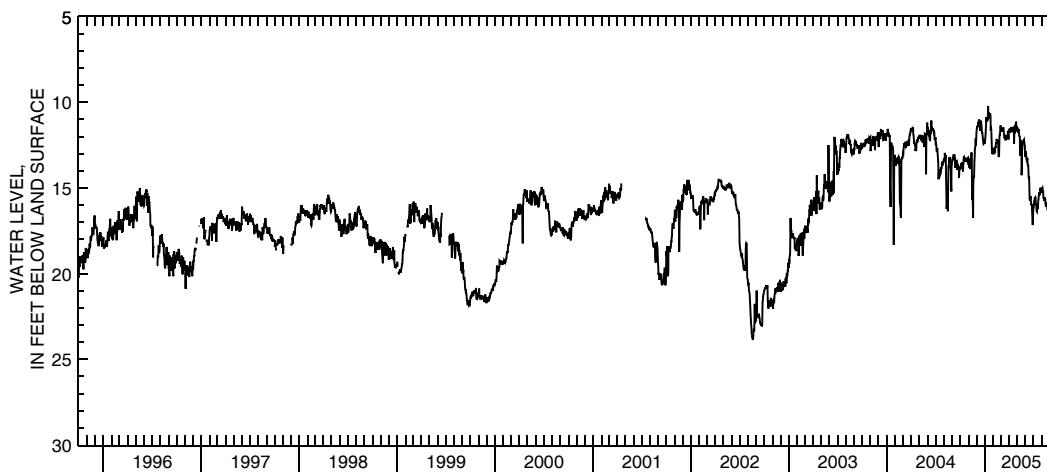
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 23.90 ft below land-surface datum, Aug. 7, 1991;
 minimum daily low, 5.77 ft below land-surface datum, Feb. 24, 1949.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.80	13.49	11.73	12.33	12.95	11.36	11.67	11.58	13.20	16.28	15.29	14.91
2	13.73	13.29	11.57	12.18	12.83	11.55	11.61	11.49	13.00	16.14	15.05	14.72
3	13.89	13.67	11.51	12.11	12.67	11.72	11.79	11.51	12.85	16.05	15.01	14.79
4	13.67	13.28	11.37	11.85	12.89	11.63	11.51	11.72	12.98	15.81	14.99	14.72
5	13.56	13.82	11.42	11.27	12.92	11.63	11.78	11.79	13.28	15.81	15.18	14.75
6	13.62	13.38	11.39	10.88	12.81	11.58	11.67	11.64	13.37	15.60	15.20	14.76
7	13.51	13.77	11.16	11.07	12.95	11.63	11.75	11.57	13.43	15.59	15.57	14.58
8	13.75	13.90	11.21	11.06	12.67	11.60	11.55	11.78	13.25	15.56	15.62	14.28
9	13.55	13.68	11.12	10.88	12.62	11.73	11.45	11.96	13.49	15.71	15.54	14.18
10	13.73	13.46	11.00	11.06	12.62	11.58	11.69	11.99	13.70	15.98	15.65	13.94
11	14.04	13.14	11.06	11.04	12.44	11.46	11.58	12.02	13.65	15.90	15.65	14.12
12	13.70	12.92	11.12	10.73	12.33	11.63	11.66	13.10	13.77	16.20	15.74	14.09
13	13.56	13.34	11.09	10.22	12.39	11.81	11.55	12.67	14.35	16.36	15.56	13.94
14	13.22	15.21	11.66	10.65	12.14	11.90	11.63	12.27	14.50	16.40	15.69	13.94
15	13.19	15.68	11.39	10.58	12.27	12.11	11.75	12.20	14.30	16.32	15.89	14.09
16	13.28	15.40	11.17	10.70	12.35	12.06	11.63	12.30	14.97	16.16	16.02	13.85
17	13.49	16.06	11.13	10.70	12.27	11.90	11.66	12.66	15.63	16.20	16.02	13.82
18	13.37	16.75	11.12	10.85	12.26	12.09	11.42	14.26	15.74	16.22	16.11	13.85
19	13.43	14.93	11.34	10.95	12.26	12.23	11.78	13.73	15.47	15.75	15.95	14.01
20	13.38	14.30	11.46	10.76	12.65	12.11	12.42	12.84	15.57	15.63	15.85	13.85
21	13.41	14.37	11.85	10.65	13.15	12.05	11.57	12.51	15.56	15.44	16.04	13.85
22	13.46	14.42	11.72	10.85	13.15	12.08	11.82	12.26	15.84	15.38	16.04	13.74
23	13.32	13.50	11.82	11.66	13.20	12.15	11.61	12.30	16.00	15.38	16.31	13.75
24	13.35	13.17	11.99	11.40	12.20	12.09	11.31	12.38	15.93	15.23	16.13	13.64
25	13.41	12.71	12.18	11.70	11.92	11.91	11.48	12.32	16.02	15.42	16.16	13.56
26	13.29	12.65	12.30	12.14	11.91	12.06	11.42	12.21	16.36	15.29	16.02	13.49
27	13.50	12.39	12.42	12.66	11.72	11.92	11.13	12.17	16.79	14.99	15.85	13.22
28	13.41	12.11	12.39	12.98	11.48	11.67	11.16	12.35	17.15	15.15	15.93	13.19
29	13.25	12.51	12.35	12.65	---	11.73	11.64	12.44	17.13	15.10	15.65	13.05
30	13.23	11.91	12.32	12.98	---	12.17	11.63	12.53	16.67	15.00	15.60	12.90
31	13.51	---	12.42	13.04	---	11.73	---	12.96	---	15.25	15.00	---
MAX	14.04	16.75	12.42	13.04	13.20	12.23	12.42	14.26	17.15	16.40	16.31	14.91
CAL YR 2004	LOW 18.33											
WTR YR 2005	LOW 17.15											



Ground-Water Records—Hocking County

393200082235300. Local Number, HK-1

LOCATION.—Latitude 39°32'00", longitude 82°23'53", Hocking County, Hydrologic Unit 05060002, at railroad yards southeast edge of Logan, Ohio. Owner: Chessie System.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 88 ft, cased.

INSTRUMENTATION.—Electronic data logger,60-minute log interval.

DATUM.—Elevation of land-surface datum is 710 ft above sea level (from topographic map). Measuring point: Top of gage platform 4.90 ft above land-surface datum.

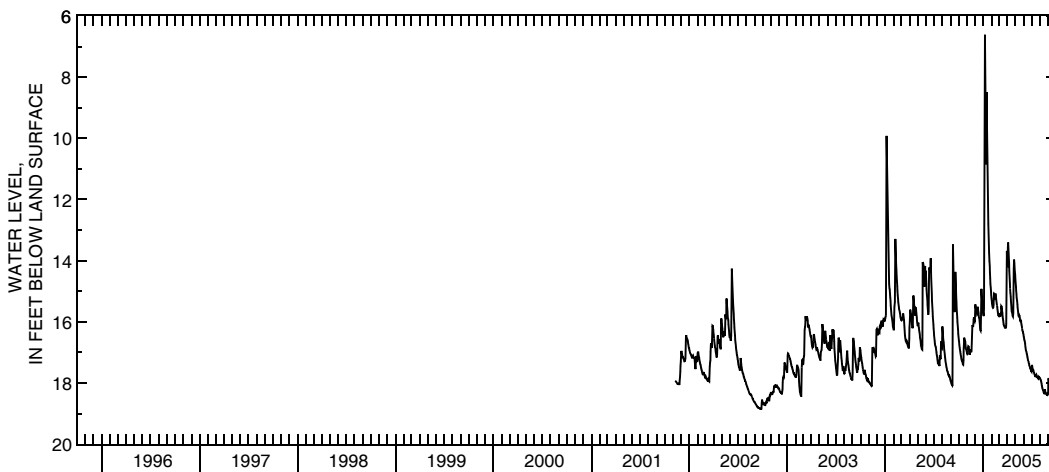
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1962 to November 1982 continuous, December 1982 to October 2001 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 21.35 ft below land-surface datum, Dec. 21 and 22, 1967; minimum daily low, 6.62 ft below land-surface datum, Jan. 7, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.49	16.99	15.96	15.72	15.24	15.76	14.16	14.60	16.47	17.52	17.84	17.87
2	16.60	17.05	15.56	15.79	15.32	15.71	14.17	14.73	16.52	17.40	17.88	17.84
3	16.64	17.06	15.43	15.81	15.41	15.75	13.58	14.86	16.56	17.47	17.89	17.92
4	16.76	17.05	15.52	15.57	15.49	15.78	13.40	14.98	16.60	17.53	17.90	18.01
5	16.84	16.94	15.59	14.63	15.53	15.81	13.61	15.10	16.64	17.56	17.94	18.03
6	16.92	16.80	15.68	11.23	15.54	15.81	13.85	15.21	16.72	17.57	18.01	18.07
7	16.98	16.81	15.69	6.62	15.53	15.74	14.08	15.32	16.82	17.60	18.07	18.11
8	17.03	16.88	15.70	7.83	15.44	15.69	14.33	15.43	16.89	17.63	18.12	18.15
9	17.09	16.95	15.75	9.29	15.21	15.48	14.55	15.52	16.93	17.66	18.16	18.18
10	17.14	17.00	15.74	10.39	15.07	15.50	14.74	15.61	16.97	17.69	18.20	18.22
11	17.19	17.05	15.53	10.85	15.08	15.57	14.91	15.71	17.00	17.71	18.22	18.24
12	17.23	17.05	15.53	9.51	15.18	15.64	15.06	15.77	17.04	17.75	18.24	18.29
13	17.27	16.92	15.65	8.49	15.25	15.72	15.17	15.82	17.08	17.76	18.27	18.32
14	17.30	16.89	15.71	8.86	15.28	15.81	15.28	15.83	17.13	17.76	18.29	18.34
15	17.33	16.93	15.81	9.84	15.24	15.89	15.44	15.78	17.17	17.78	18.32	18.36
16	17.35	16.97	15.87	10.69	15.07	15.95	15.56	15.80	17.22	17.78	18.34	18.38
17	17.39	16.99	15.85	11.39	15.15	16.01	15.67	15.87	17.25	17.74	18.34	18.39
18	17.40	16.95	15.95	11.92	15.24	16.08	15.70	15.94	17.29	17.73	18.29	18.40
19	17.26	16.74	16.07	12.39	15.34	16.12	15.73	15.98	17.32	17.77	18.21	18.38
20	16.87	16.44	16.17	12.80	15.38	16.13	15.77	15.98	17.36	17.79	18.27	18.40
21	16.70	16.17	16.27	13.13	15.46	16.15	15.82	15.96	17.39	17.80	18.30	18.37
22	16.52	16.10	16.29	13.45	15.52	16.17	15.83	15.99	17.43	17.81	18.33	18.41
23	16.56	16.14	16.22	13.76	15.59	16.19	15.72	16.05	17.46	17.83	18.36	18.45
24	16.59	16.14	15.37	14.01	15.66	16.19	15.02	16.10	17.49	17.85	18.37	18.46
25	16.63	16.13	14.92	14.16	15.72	16.19	14.27	16.16	17.51	17.86	18.38	18.35
26	16.64	15.93	15.09	14.38	15.78	16.19	13.96	16.22	17.54	17.81	18.36	18.19
27	16.79	15.85	15.24	14.59	15.80	16.17	14.08	16.27	17.57	17.79	18.38	18.16
28	16.85	15.93	15.37	14.76	15.81	16.06	14.22	16.31	17.58	17.81	18.39	18.16
29	16.90	15.97	15.51	14.87	---	14.74	14.37	16.32	17.61	17.81	18.38	18.19
30	16.93	15.99	15.59	15.00	---	13.68	14.46	16.37	17.62	17.82	18.36	18.23
31	16.95	---	15.66	15.12	---	13.98	---	16.42	---	17.83	18.32	---
MAX	17.40	17.06	16.29	15.81	15.81	16.19	15.83	16.42	17.62	17.86	18.39	18.46
CAL YR 2004	LOW 18.08											
WTR YR 2005	LOW 18.46											



Ground-Water Records—Knox County

402344082300700. Local Number, K-1

LOCATION.—Latitude 40°23'44", longitude 82°30'07", Knox County, Hydrologic Unit 05040003, in city park, Mt. Vernon, Ohio. Owner: City of Mt. Vernon.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 8 in., depth 90 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,000 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

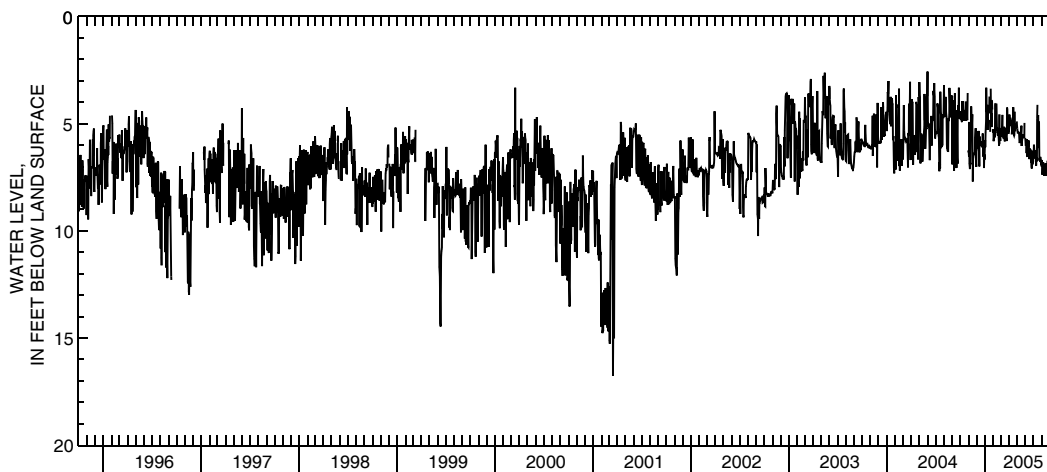
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 20.74 ft below land-surface datum, July 14, 1988; minimum daily low, 1.43 ft below land-surface datum, Apr. 29, 1950.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.50	6.34	6.27	6.22	5.40	5.20	5.37	5.07	5.67	6.69	7.00	6.79
2	4.76	6.38	6.18	5.77	5.27	5.55	5.15	5.22	5.90	6.50	6.71	6.97
3	4.79	6.53	6.13	6.10	5.82	5.56	4.58	5.34	6.03	5.98	7.38	6.70
4	4.43	4.92	6.13	5.40	5.69	5.60	5.02	5.46	5.94	6.05	7.28	6.57
5	4.76	6.86	5.35	4.85	5.44	5.41	5.07	---	6.03	6.31	7.32	6.51
6	4.88	7.12	5.89	3.32	5.40	5.26	5.11	5.35	6.38	6.30	6.80	6.69
7	4.93	6.83	5.96	4.40	5.64	4.60	4.72	5.48	5.72	6.62	7.04	6.73
8	3.96	6.90	6.05	4.41	4.17	5.65	---	5.42	6.52	6.52	7.11	6.80
9	4.72	4.93	5.34	4.68	4.05	---	---	5.55	6.55	6.24	7.43	6.97
10	4.73	4.97	5.89	4.96	5.13	5.59	---	5.90	5.86	6.52	7.35	7.27
11	4.68	4.20	7.00	5.29	5.45	5.64	5.50	5.86	6.09	6.96	7.00	6.69
12	3.96	4.73	5.68	5.25	---	5.62	5.32	5.87	5.95	6.56	7.17	6.85
13	4.40	5.03	5.60	4.17	4.06	5.14	4.81	5.48	5.78	6.67	7.19	7.11
14	4.74	5.04	5.95	4.12	4.66	5.49	5.46	5.66	6.04	6.68	6.94	7.02
15	4.86	4.56	6.01	4.34	5.32	5.68	5.41	5.44	6.49	4.78	6.86	7.44
16	4.53	7.34	6.01	4.40	5.19	5.83	5.41	5.37	6.65	4.12	6.93	7.07
17	4.36	7.70	5.82	4.51	5.33	5.24	4.24	5.10	6.33	---	7.42	7.20
18	4.73	6.61	5.87	3.73	5.55	5.53	5.36	6.04	6.16	4.66	6.92	6.99
19	4.77	6.59	5.88	---	5.42	5.32	5.54	5.65	6.23	4.60	7.12	7.24
20	4.60	6.45	---	4.82	5.33	5.19	5.56	5.80	6.20	6.14	7.36	7.08
21	4.87	6.44	5.92	5.39	5.54	5.63	5.50	5.63	6.44	5.05	6.88	7.44
22	4.34	6.42	6.10	---	5.83	5.72	4.45	5.64	6.83	4.91	7.32	6.97
23	3.97	6.38	5.98	3.37	6.03	5.81	5.28	5.66	6.61	6.66	6.73	7.32
24	4.62	6.36	5.46	4.93	4.58	5.49	---	5.54	7.02	6.73	7.21	7.13
25	4.03	6.33	5.92	4.52	5.96	4.25	5.36	5.49	7.09	6.60	6.96	6.96
26	4.45	5.65	6.54	5.16	---	4.33	5.15	5.58	6.26	6.77	7.29	6.73
27	4.82	5.35	6.08	4.28	5.68	5.36	4.99	5.64	6.69	6.55	6.97	7.30
28	4.84	5.21	6.30	3.92	5.81	4.90	5.24	5.68	6.49	6.71	7.04	6.07
29	3.57	6.81	7.07	4.34	---	5.24	---	4.97	6.75	6.77	7.24	7.10
30	---	7.01	6.44	---	---	5.48	4.89	---	6.78	6.91	7.17	6.50
31	6.25	---	6.68	5.27	---	5.19	---	---	---	6.69	6.81	---
MAX	6.25	7.70	7.07	6.22	6.03	5.83	5.56	6.04	7.09	6.96	7.43	7.44
CAL YR 2004	LOW 7.70											
WTR YR 2005	LOW 7.70											



402747082374300. Local Number, K-4

LOCATION.—Latitude 40°27'47", longitude 82°37'43", Knox County, Hydrologic Unit 05040003, near Fredericktown, Ohio. Owner: Delco Water Company.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused observation well, diameter 6 in., depth 151 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,085 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

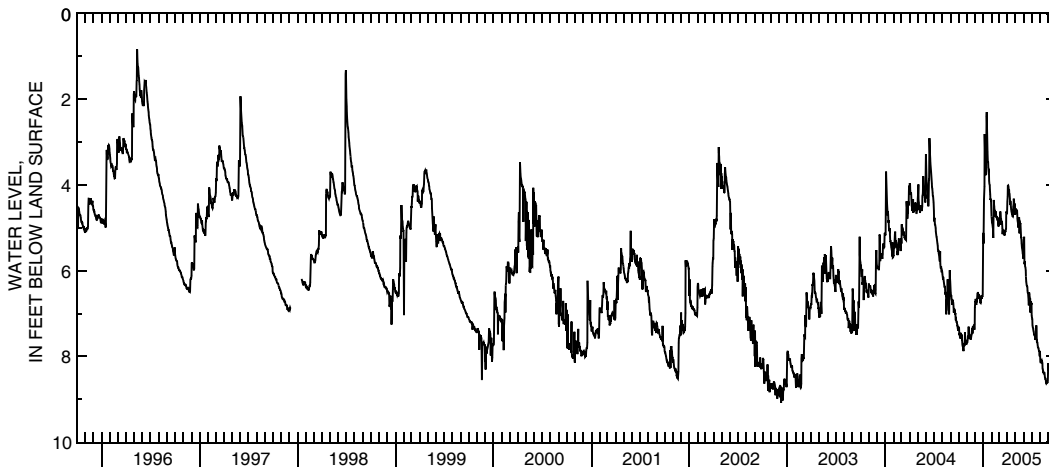
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.- June 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 9.09 ft below land-surface datum, Dec. 9, 2002; minimum daily low 0.84 ft below land-surface datum, May 12, 1996.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.31	7.69	6.86	5.12	4.74	4.76	4.39	4.55	5.28	7.05	7.89	8.16
2	7.34	7.67	6.74	5.37	4.82	4.91	4.27	4.58	5.25	7.10	8.12	8.33
3	7.32	7.67	6.74	5.15	4.89	4.88	4.02	4.58	5.21	7.13	8.13	8.30
4	7.51	7.62	6.66	4.34	4.93	4.88	4.01	4.64	5.85	7.28	8.16	8.34
5	7.46	7.53	6.75	4.04	5.00	4.93	4.04	4.62	5.79	7.32	8.10	8.39
6	7.58	7.51	6.80	2.81	5.02	4.62	4.13	4.58	5.91	7.36	8.10	8.43
7	7.55	7.31	6.71	3.15	5.24	4.83	4.11	4.61	5.93	7.40	8.09	8.45
8	7.47	7.40	6.74	3.28	4.55	4.79	4.20	4.79	5.99	7.43	8.12	8.22
9	7.47	7.58	6.65	3.63	4.35	4.88	4.22	4.84	6.14	7.50	8.16	8.21
10	7.55	7.50	6.54	3.77	4.46	4.84	4.32	4.88	6.26	7.51	8.28	8.39
11	7.56	7.55	6.53	3.68	4.50	4.91	4.47	4.93	6.32	7.51	8.31	8.40
12	7.49	7.53	6.50	2.82	4.61	4.88	4.37	5.00	6.35	7.49	8.36	8.61
13	7.58	7.56	6.59	2.40	4.71	5.02	4.43	4.91	6.36	7.59	8.36	8.66
14	7.62	7.58	6.59	2.30	4.73	5.15	4.50	4.76	6.38	7.61	8.40	8.70
15	7.73	7.61	6.56	2.72	4.64	5.06	4.58	4.77	6.47	7.58	8.40	8.48
16	7.77	7.55	6.57	2.96	4.65	5.09	4.62	5.13	6.53	7.61	8.39	8.34
17	7.76	7.55	6.65	3.23	4.62	5.07	4.64	4.89	6.51	7.58	8.39	8.36
18	7.83	7.50	6.59	3.45	4.71	5.06	4.68	4.88	6.61	7.28	8.43	8.39
19	7.88	7.49	6.68	3.47	4.76	5.07	4.69	4.91	6.71	7.59	8.49	8.37
20	7.80	7.36	6.69	3.59	4.73	5.18	4.73	4.91	6.81	7.68	8.52	8.40
21	7.69	7.35	6.75	3.69	4.80	5.16	4.74	5.09	6.51	7.67	8.52	8.45
22	7.73	7.47	6.76	3.68	4.82	5.16	4.69	5.24	6.56	7.69	8.55	8.46
23	7.76	7.32	6.74	3.90	4.82	5.06	4.50	5.22	6.59	7.76	8.63	8.40
24	7.64	7.32	6.65	3.99	4.82	5.09	4.46	5.36	6.65	7.79	8.64	8.40
25	7.44	7.29	6.61	4.01	4.84	5.10	4.32	5.45	6.66	7.80	8.63	8.36
26	7.67	7.34	6.57	4.11	4.92	5.04	4.38	5.48	6.98	7.81	8.58	8.22
27	7.67	7.28	6.65	4.23	4.97	5.02	4.67	5.52	6.80	7.86	8.58	8.22
28	7.73	7.28	6.59	4.35	4.93	4.62	4.67	5.60	6.72	7.88	8.63	8.30
29	7.62	7.38	6.61	4.32	---	4.64	4.44	5.60	6.80	7.86	8.61	8.25
30	7.64	7.25	6.56	4.38	---	4.64	4.69	5.63	6.75	7.98	8.56	8.30
31	7.68	---	6.02	4.48	---	4.68	---	5.73	---	7.98	8.22	---
MAX	7.88	7.69	6.86	5.37	5.24	5.18	4.74	5.73	6.98	7.98	8.64	8.70
CAL YR 2004	LOW 7.88											
WTR YR 2005	LOW 8.70											



403136082363100. Local Number, K-5

LOCATION.—Latitude 40°27'47", longitude 82°37'43", Knox County, Hydrologic Unit 05040003, at Kokosing Wildlife Area near Bellville. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 132 ft, cased to 122 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,135 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

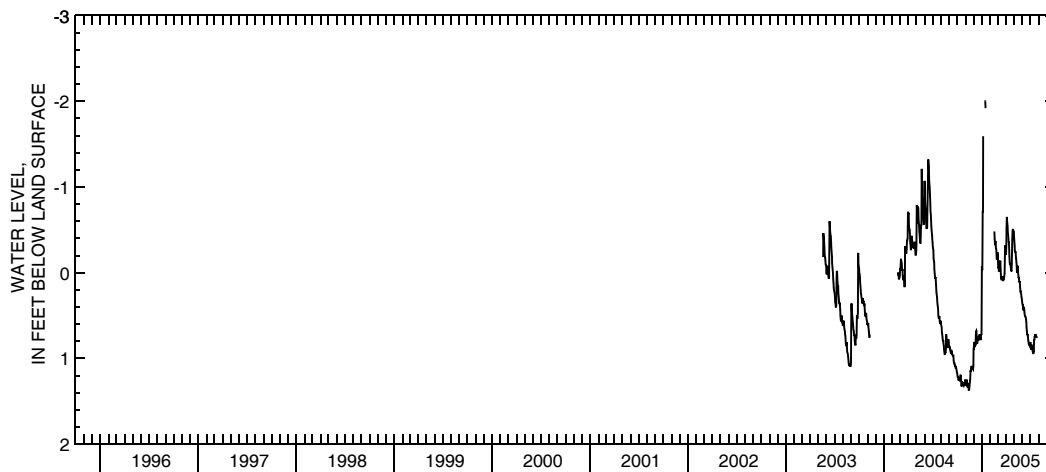
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—May 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 1.37 ft below land-surface datum, Nov. 13-14, 2004; minimum daily low 2.01 ft above land-surface datum, Jan. 13, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.18	1.32	0.89	-0.07	---	-0.21	-0.21	-0.42	0.36	0.81	---	---
2	1.21	1.29	0.89	-0.03	---	-0.10	-0.33	-0.37	0.38	0.86	---	---
3	1.22	1.32	0.82	-0.04	---	-0.06	-0.52	-0.31	0.38	0.88	---	---
4	1.22	1.26	0.82	-0.71	---	-0.06	-0.65	-0.25	0.41	0.90	---	---
5	1.25	1.27	0.87	-0.71	---	-0.02	-0.60	-0.24	0.44	0.89	---	---
6	1.25	1.25	0.84	-1.59	---	-0.02	-0.57	-0.24	0.41	0.84	---	---
7	1.26	1.29	0.81	---	---	-0.13	-0.54	-0.24	0.41	0.86	---	---
8	1.23	1.33	0.85	---	---	-0.13	-0.47	-0.17	0.43	0.88	---	---
9	1.23	1.34	0.82	---	---	-0.09	-0.44	-0.16	0.46	0.91	---	---
10	1.26	1.32	0.69	---	---	-0.10	-0.39	-0.12	0.50	0.93	---	---
11	1.26	1.29	0.68	---	---	-0.14	-0.35	-0.06	0.51	0.94	---	---
12	1.25	1.33	0.69	---	---	-0.06	-0.36	0.00	0.51	0.94	---	---
13	1.20	1.37	0.76	-2.01	---	0.03	-0.25	-0.02	0.52	0.92	---	---
14	1.20	1.37	0.82	-2.00	---	0.06	-0.19	-0.08	0.53	0.92	---	---
15	1.22	1.36	0.83	-1.92	---	0.08	-0.12	-0.05	0.55	0.78	---	---
16	1.27	1.32	0.79	---	---	0.08	-0.09	0.00	0.58	0.79	---	---
17	1.32	1.30	0.79	---	-0.48	0.04	-0.10	0.03	0.63	0.74	---	---
18	1.33	1.26	0.76	---	-0.39	0.06	-0.08	0.06	0.68	0.75	---	---
19	1.27	1.25	0.75	---	-0.33	0.06	-0.06	0.05	0.71	0.72	---	---
20	1.29	1.14	0.77	---	-0.33	0.07	-0.04	0.08	0.73	0.74	---	---
21	1.31	1.16	0.78	---	-0.37	0.09	-0.02	0.11	0.72	0.74	---	---
22	1.32	1.14	0.79	---	-0.31	0.09	-0.02	0.11	0.75	0.73	---	---
23	1.29	1.10	0.73	---	-0.28	0.05	-0.10	0.10	0.78	0.76	---	---
24	1.28	1.09	0.73	---	-0.27	0.07	-0.28	0.17	0.80	0.75	---	---
25	1.31	1.11	0.77	---	-0.24	0.07	-0.39	0.22	0.83	0.76	---	---
26	1.32	1.11	0.75	---	-0.16	0.04	-0.49	0.22	0.84	---	---	---
27	1.31	1.09	0.78	---	-0.16	0.01	-0.51	0.24	0.85	---	---	---
28	1.31	1.12	0.78	---	-0.24	-0.08	-0.47	0.25	0.85	---	---	---
29	1.29	1.13	0.72	---	---	-0.31	-0.48	0.28	0.86	---	---	---
30	1.25	1.08	0.73	---	---	-0.31	-0.46	0.31	0.85	---	---	---
31	1.31	---	0.67	---	---	-0.23	---	0.35	---	---	---	---
MAX	1.33	1.37	0.89	-0.03	-0.16	0.09	-0.02	0.35	0.86	0.94	---	---
CAL YR 2004	LOW 1.37											
WTR YR 2005	LOW 1.37											



Ground-Water Records—Licking County

395717082454200. Local Number, LI-5

LOCATION.—Latitude 39°57'17", longitude 82°45'42", Licking County, Hydrologic Unit 05060001, at Ohio Department of Agriculture near Reynoldsburg, Ohio.
 Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 124 ft, cased to 113 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,020 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

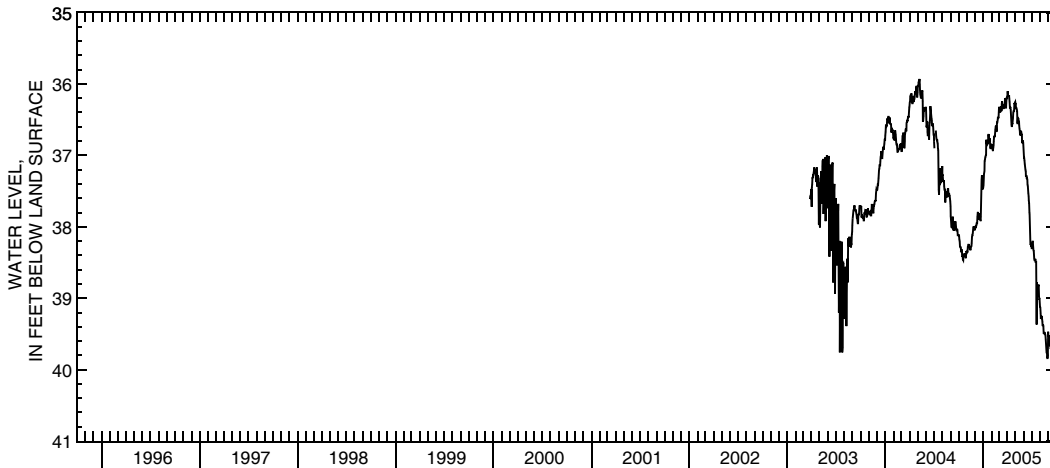
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—March 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 40.01 ft below land-surface datum, Sept. 18, 2005; minimum daily low, 35.93 ft below land-surface datum, May 8, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.12	38.36	37.99	37.45	36.86	36.32	36.18	36.28	36.96	38.30	39.12	39.53
2	38.12	38.35	38.00	37.42	36.86	36.34	36.10	36.28	37.03	38.30	39.13	39.53
3	38.12	38.36	38.00	37.36	36.89	36.35	36.13	36.33	37.03	38.23	39.21	39.54
4	38.18	38.32	38.02	37.26	36.91	36.35	36.17	36.34	37.07	38.21	39.28	39.54
5	38.20	38.28	38.00	37.22	36.93	36.39	36.17	36.34	37.12	38.21	39.28	39.61
6	38.28	38.27	37.98	37.08	36.93	36.39	36.17	36.36	37.16	38.30	39.26	39.66
7	38.29	38.24	37.95	37.06	36.89	36.37	36.17	36.38	37.20	38.33	39.26	39.66
8	38.29	38.26	37.95	37.03	36.86	36.31	36.20	36.55	37.22	38.34	39.29	39.66
9	38.29	38.27	37.95	37.02	36.80	36.37	36.25	36.55	37.30	38.41	39.33	39.70
10	38.34	38.28	37.86	37.00	36.74	36.37	36.33	36.48	37.29	38.45	39.38	39.70
11	38.35	38.30	37.80	36.99	36.75	36.28	36.33	36.49	37.29	38.47	39.38	39.80
12	38.35	38.28	37.79	36.79	36.73	36.24	36.32	36.49	37.32	38.47	39.37	39.80
13	38.32	38.32	37.85	36.78	36.73	36.28	36.36	36.52	37.32	38.47	39.39	39.76
14	38.41	38.33	37.88	36.84	36.70	36.29	36.41	36.53	37.34	38.45	39.49	39.82
15	38.41	38.30	37.89	36.85	36.64	36.32	36.50	36.58	37.41	38.49	39.49	39.84
16	38.42	38.27	37.89	36.84	36.60	36.33	36.57	36.63	37.43	38.49	39.49	39.85
17	38.46	38.28	37.88	36.82	36.59	36.34	36.59	36.66	37.46	38.49	39.49	39.97
18	38.47	38.26	37.84	36.84	36.59	36.34	36.59	36.71	37.53	38.60	39.51	40.01
19	38.40	38.23	37.81	36.82	36.66	36.32	36.55	36.71	37.57	39.37	39.50	40.00
20	38.39	38.14	37.90	36.72	36.66	36.29	36.55	36.65	37.63	38.78	39.51	39.86
21	38.39	38.12	37.91	36.70	36.54	36.31	36.50	36.70	37.67	38.94	39.52	39.83
22	38.41	38.12	37.91	36.78	36.54	36.31	36.48	36.71	37.80	38.96	39.58	39.82
23	38.41	38.09	37.86	36.80	36.53	36.20	36.40	36.71	37.82	38.95	39.66	39.87
24	38.37	38.04	37.66	36.80	36.50	36.22	36.38	36.70	37.99	38.87	39.70	39.92
25	38.40	38.01	37.50	36.76	36.46	36.30	36.38	36.73	38.15	38.82	39.76	39.92
26	38.40	38.01	37.34	36.80	36.47	36.33	36.38	36.83	38.24	38.82	39.76	39.80
27	38.43	38.00	37.28	36.88	36.47	36.33	36.27	36.82	38.24	38.82	39.76	39.70
28	38.43	38.02	37.46	36.90	36.42	36.27	36.28	36.80	38.27	38.98	39.84	39.69
29	38.38	38.04	37.48	36.90	---	36.20	36.26	36.80	38.27	39.01	39.84	39.66
30	38.34	38.04	37.43	36.85	---	36.20	36.25	36.82	38.27	39.01	39.80	39.71
31	38.35	---	37.45	36.85	---	36.18	---	36.92	---	39.08	39.47	---
MAX	38.47	38.36	38.02	37.45	36.93	36.39	36.59	36.92	38.27	39.37	39.84	40.01
CAL YR 2004	LOW 38.47											
WTR YR 2005	LOW 40.01											



395830082291700. Local Number, LI-6

LOCATION.—Latitude 39°58'30", longitude 82°29'17", Licking County, Hydrologic Unit 05040006, on State Route 79 north of Hebron, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 133 ft, cased to 122 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 895 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

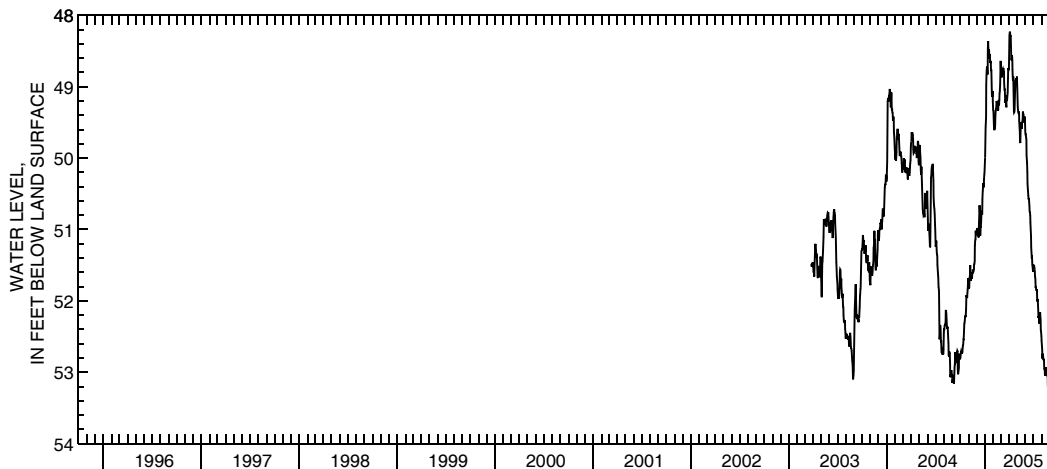
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—March 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 53.21 ft below land-surface datum, Aug. 25, 2005; minimum daily low, 48.24 ft below land-surface datum, Apr. 4-5, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.81	51.74	51.02	50.11	49.32	48.64	48.72	48.86	49.64	51.49	52.56	52.45
2	52.79	51.78	51.01	49.99	49.34	48.76	48.48	48.97	49.67	51.54	52.62	52.58
3	52.76	51.83	51.02	49.84	49.40	48.85	48.28	49.14	49.67	51.52	52.69	52.66
4	52.72	51.81	50.98	49.58	49.55	48.79	48.24	49.28	49.71	51.50	52.81	52.63
5	52.70	51.69	51.00	49.43	49.61	48.86	48.24	49.34	49.74	51.54	52.74	52.61
6	52.71	51.65	51.08	48.97	49.55	48.86	48.29	49.36	49.96	51.56	52.79	52.63
7	52.74	51.50	51.04	48.81	49.56	48.76	48.29	49.38	50.06	51.66	52.83	52.64
8	52.73	51.66	51.11	48.73	49.54	48.75	48.37	49.35	50.20	51.69	52.82	52.61
9	52.72	51.72	51.06	48.72	49.42	48.78	48.56	49.48	50.36	51.82	52.83	52.68
10	52.65	51.69	50.89	48.82	49.34	48.79	48.63	49.57	50.44	51.80	52.92	52.76
11	52.63	51.69	50.80	48.82	49.33	48.74	48.61	49.64	50.50	51.84	52.96	52.71
12	52.61	51.66	50.66	48.47	49.30	48.80	48.56	49.77	50.53	51.85	52.95	52.88
13	52.54	51.68	50.75	48.36	49.25	48.80	48.62	49.79	50.58	51.86	53.04	52.83
14	52.54	51.68	51.08	48.45	49.20	48.95	48.76	49.64	50.56	51.84	53.00	52.98
15	52.45	51.61	51.08	48.55	49.24	49.04	48.89	49.52	50.61	51.95	53.05	53.11
16	52.32	51.61	50.96	48.48	49.24	49.04	48.92	49.57	50.67	52.01	53.01	53.09
17	52.31	51.56	50.96	48.50	49.24	49.10	48.86	49.50	50.75	51.98	52.97	52.97
18	52.28	51.60	50.90	48.60	49.28	49.23	49.09	49.57	50.76	52.02	52.93	52.90
19	52.21	51.59	50.78	48.56	49.34	49.20	49.34	49.59	50.80	52.11	52.99	52.88
20	52.23	51.58	50.74	48.56	49.32	49.18	49.36	49.50	50.90	52.24	53.04	52.86
21	52.21	51.56	50.78	48.67	49.20	49.25	49.35	49.49	50.99	52.21	53.01	52.84
22	52.21	51.49	50.78	48.66	49.20	49.29	49.32	49.44	51.10	52.26	53.05	52.85
23	52.12	51.48	50.58	48.64	49.26	49.13	49.20	49.35	51.25	52.32	53.05	52.86
24	51.92	51.44	50.47	48.77	49.18	49.19	49.05	49.38	51.33	52.21	53.19	52.78
25	51.94	51.22	50.41	48.77	49.10	49.20	48.93	49.39	51.41	52.19	53.21	---
26	51.95	51.15	50.35	48.85	49.06	49.13	48.90	49.44	51.37	52.16	53.18	---
27	51.96	51.14	50.40	49.09	48.97	49.08	48.89	49.50	51.50	52.22	53.05	---
28	51.90	51.02	50.40	49.13	48.82	48.93	48.95	49.44	51.52	52.26	52.96	---
29	51.84	51.07	50.30	49.14	---	48.79	48.94	49.42	51.56	52.41	52.94	---
30	51.75	51.07	50.23	49.06	---	48.74	48.88	49.43	51.59	52.44	52.78	---
31	51.68	---	50.21	49.20	---	48.77	---	49.54	---	52.50	52.41	---
MAX	52.81	51.83	51.11	50.11	49.61	49.29	49.36	49.79	51.59	52.50	53.21	53.11
CAL YR 2004	LOW 53.16											
WTR YR 2005	LOW 53.21											



400848082251100. Local Number, LI-4

LOCATION.—Latitude 40°08'48", longitude 82°25'11", Licking County, Hydrologic Unit 05040006, near St. Louisville, Ohio. Owner: City of Newark.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 79 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 885 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

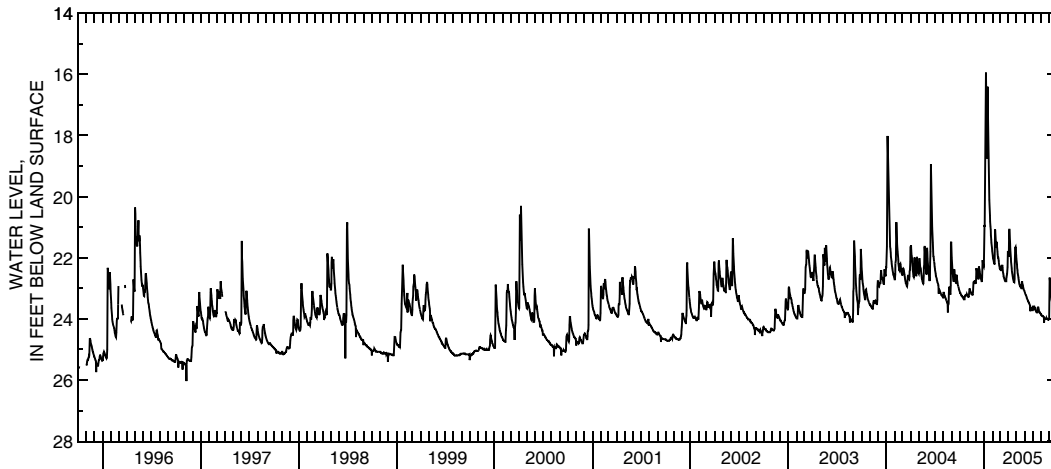
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—August 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 29.15 ft below land-surface datum, Oct. 8 1992; minimum daily low, 15.95 ft below land-surface datum, Jan. 7, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.10	23.27	22.82	21.71	21.86	22.37	21.90	22.02	23.13	23.72	23.85	23.27
2	23.13	23.27	22.62	20.93	21.95	22.34	21.97	22.11	23.16	23.60	23.87	22.65
3	23.15	23.28	22.34	20.99	22.01	22.37	21.83	22.22	23.18	23.57	23.88	22.76
4	23.16	23.28	22.38	20.60	22.07	22.38	21.09	22.34	23.21	23.61	23.90	22.91
5	23.19	23.24	22.46	19.00	22.13	22.41	21.09	22.41	23.22	23.66	23.91	23.01
6	23.21	23.09	22.53	18.30	22.17	22.43	21.32	22.50	23.25	23.67	23.91	23.13
7	23.22	23.01	22.59	15.95	22.20	22.37	21.53	22.58	23.28	23.67	23.91	23.21
8	23.24	23.03	22.61	16.81	22.20	22.25	21.71	22.65	23.30	23.64	23.91	23.30
9	23.25	23.07	22.58	17.46	21.78	22.23	21.86	22.71	23.33	23.67	23.93	23.37
10	23.27	23.10	22.71	18.21	21.08	22.32	22.02	22.77	23.36	23.70	23.93	23.43
11	23.28	23.12	22.44	18.74	21.12	22.41	22.14	22.83	23.37	23.72	23.94	23.49
12	23.28	23.13	22.29	18.74	21.33	22.49	22.23	22.88	23.39	23.75	24.12	23.54
13	23.30	23.18	22.35	16.41	21.50	22.53	22.34	22.91	23.42	23.75	24.02	23.58
14	23.31	23.18	22.41	16.81	21.65	22.59	22.43	22.92	23.43	23.78	23.99	23.61
15	23.33	23.19	22.46	17.55	21.65	22.64	22.50	22.94	23.46	23.78	23.99	23.64
16	23.34	23.19	22.53	18.35	21.48	22.67	22.56	22.92	23.47	23.79	24.00	23.67
17	23.36	23.21	22.56	18.99	21.59	22.70	22.61	22.94	23.49	23.79	24.00	23.69
18	23.36	23.21	22.61	19.45	21.68	22.72	22.67	22.97	23.51	23.69	24.00	23.70
19	23.36	23.21	22.67	19.83	21.80	22.76	22.71	23.00	23.54	23.64	24.00	23.72
20	23.30	23.12	22.70	20.11	21.89	22.77	22.74	23.00	23.55	23.63	23.97	23.73
21	23.24	22.92	22.74	20.39	21.99	22.77	22.79	22.86	23.57	23.60	23.99	23.73
22	23.24	22.80	22.77	20.61	21.99	22.77	22.79	22.77	23.75	23.64	23.99	23.75
23	23.24	22.79	22.79	20.82	22.04	22.77	22.80	22.83	23.64	23.70	24.00	23.78
24	23.24	22.80	22.65	20.97	22.10	22.77	22.70	22.88	23.64	23.73	24.00	23.78
25	23.24	22.82	22.22	21.09	22.17	22.64	22.20	22.91	23.64	23.78	24.00	23.75
26	23.22	22.77	22.08	21.27	22.25	22.59	21.83	22.95	23.66	23.78	24.02	23.69
27	23.19	22.74	22.16	21.41	22.29	22.53	21.66	23.00	23.67	23.79	24.03	23.66
28	23.21	22.83	22.20	21.51	22.35	22.46	21.65	23.04	23.69	23.81	24.03	23.46
29	23.21	22.83	22.29	21.60	---	22.31	21.77	23.06	23.70	23.82	24.03	23.36
30	23.22	22.82	22.31	21.69	---	21.78	21.92	23.07	23.72	23.84	24.02	23.36
31	23.24	---	22.25	21.78	---	21.81	---	23.10	---	23.85	23.99	---
MAX	23.36	23.28	22.82	21.78	22.35	22.77	22.80	23.10	23.75	23.85	24.12	23.78
CAL YR 2004	LOW 23.79											
WTR YR 2005	LOW 24.12											



Ground-Water Records—Logan County

401510083444400. Local Number, LO-3

LOCATION.—Latitude 40°15'10", longitude 83°44'44", Logan County, Hydrologic Unit 05080001, at West Liberty, Ohio. Owner: City of West Liberty
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 71 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,090 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

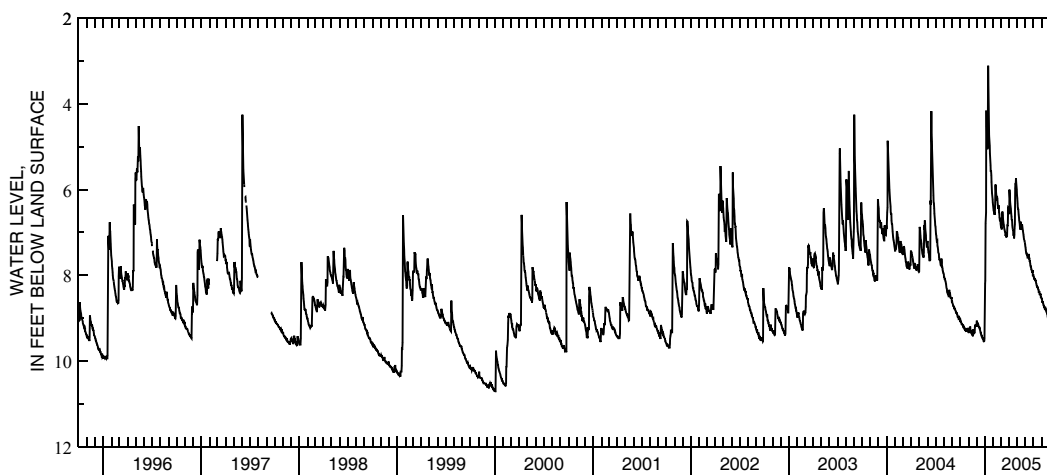
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—June 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 10.71 ft below land-surface datum, Jan. 2 and 3, 2000; minimum daily low, 3.11 ft below land-surface, Jan. 13, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.06	9.33	9.16	8.63	6.38	6.80	6.57	6.11	7.32	7.98	8.54	8.88
2	9.05	9.33	9.06	8.19	6.45	6.87	6.54	6.20	7.36	8.03	8.55	8.92
3	9.08	9.30	9.08	8.13	6.48	6.87	6.00	6.32	7.41	8.04	8.61	8.99
4	9.09	9.26	9.12	6.78	6.51	6.89	6.12	6.41	7.46	8.07	8.64	9.00
5	9.11	9.23	9.12	6.53	6.56	6.93	6.24	6.47	7.49	8.10	8.61	9.01
6	9.14	9.21	9.16	4.16	6.59	6.76	6.32	6.45	7.49	8.06	8.66	9.03
7	9.14	9.21	9.15	4.52	6.54	6.51	6.42	6.59	7.53	8.12	8.69	9.05
8	9.14	9.26	9.18	4.67	6.29	6.60	6.45	6.66	7.53	8.13	8.70	9.08
9	9.16	9.29	9.20	4.89	5.90	6.66	6.56	6.72	7.59	8.12	8.73	9.09
10	9.16	9.33	9.21	5.06	5.90	6.72	6.63	6.76	7.59	8.13	8.73	9.09
11	9.18	9.34	9.21	5.01	5.99	6.75	6.71	6.84	7.58	8.19	8.74	9.11
12	9.20	9.33	9.24	4.05	6.09	6.81	6.69	6.90	7.58	8.21	8.78	9.14
13	9.18	9.36	9.24	3.11	6.18	6.86	6.83	6.93	7.50	8.24	8.79	9.15
14	9.23	9.38	9.30	3.68	6.18	6.89	6.87	6.87	7.56	8.25	8.78	9.15
15	9.21	9.39	9.31	4.07	6.21	6.93	6.93	6.75	7.61	8.28	8.81	9.14
16	9.23	9.41	9.34	4.46	6.20	6.96	6.94	6.83	7.61	8.28	8.79	9.09
17	9.26	9.41	9.34	4.74	6.24	6.99	7.02	6.87	7.67	8.28	8.82	8.76
18	9.27	9.33	9.38	4.86	6.35	7.01	7.08	6.93	7.67	8.30	8.85	8.79
19	9.26	9.26	9.39	4.98	6.42	7.08	7.04	6.87	7.73	8.33	8.87	8.84
20	9.27	9.30	9.42	5.15	6.45	7.05	7.14	6.81	7.77	8.34	8.87	8.87
21	9.23	9.31	9.42	5.30	6.36	7.10	7.05	6.87	7.80	8.39	8.90	8.90
22	9.29	9.33	9.45	5.43	6.44	7.10	6.90	6.93	7.80	8.39	8.91	8.90
23	9.29	9.34	9.47	5.58	6.53	7.04	6.81	6.96	7.85	8.37	8.96	8.87
24	9.24	9.33	9.48	5.55	6.57	7.06	5.97	7.01	7.86	8.43	8.99	8.79
25	9.27	9.21	9.48	5.67	6.65	7.10	5.88	7.06	7.91	8.46	8.99	7.50
26	9.26	9.15	9.49	5.82	6.71	6.84	5.88	7.10	7.92	8.41	9.01	7.47
27	9.30	9.18	9.53	5.99	6.74	6.84	5.73	7.16	7.94	8.46	9.03	7.20
28	9.30	9.16	9.53	6.08	6.66	6.78	5.82	7.19	7.88	8.43	9.06	7.34
29	9.24	9.18	9.54	6.15	---	6.41	5.91	7.20	8.00	8.51	9.06	7.40
30	9.31	9.20	9.53	6.23	---	6.42	6.00	7.23	8.00	8.51	9.08	7.47
31	9.31	---	9.47	6.30	---	6.53	---	7.28	---	8.54	8.85	---
MAX	9.31	9.41	9.54	8.63	6.74	7.10	7.14	7.28	8.00	8.54	9.08	9.15
CAL YR 2004	LOW 9.54											
WTR YR 2005	LOW 9.54											



Ground-Water Records—Madison County

395301083272200. Local Number, M-2

LOCATION.—Latitude 39°53'01", longitude 83°27'22", Madison County, Hydrologic Unit 05060002, U.S. Highway 42 and Westmore Drive, London, Ohio.
 Owner: State of Ohio

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 12 in., depth 350 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,035 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

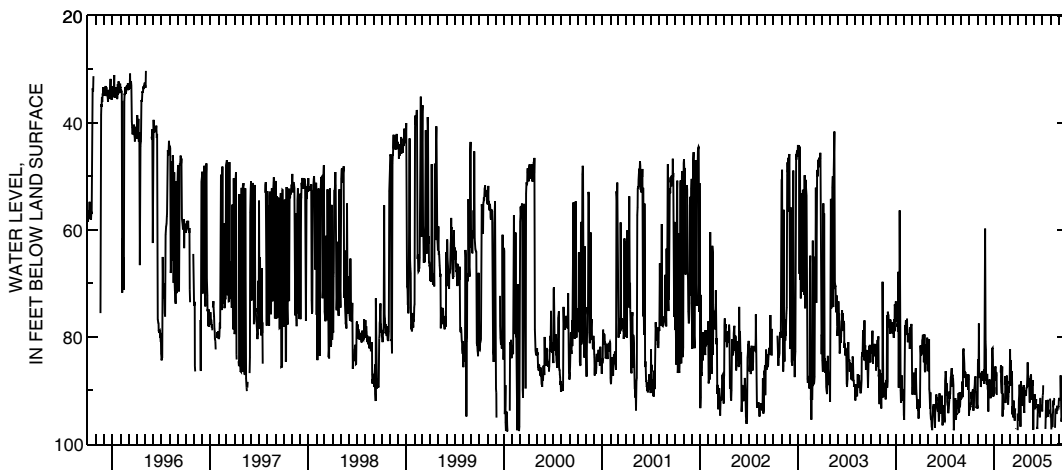
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 97.58 ft below land-surface datum, Jan. 8, 14, and 15, Feb. 26, 2000; minimum daily low, 0.55 ft above land-surface, Apr. 13, 1980.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93.65	93.39	80.83	90.89	85.55	87.16	---	90.86	91.69	92.26	94.79	91.60
2	92.39	84.99	82.37	89.39	94.88	82.29	94.61	89.55	90.70	90.99	94.72	91.63
3	93.69	84.20	87.82	90.63	93.55	85.33	95.63	89.50	93.07	90.48	97.29	91.45
4	93.23	86.85	88.15	85.61	90.63	86.50	91.75	89.44	92.98	89.07	---	91.80
5	92.95	87.26	87.95	86.12	91.42	84.42	90.84	88.26	93.16	---	96.90	91.48
6	92.95	77.51	88.98	85.85	93.62	89.16	89.14	86.84	93.22	---	96.17	91.94
7	92.26	87.06	86.93	85.51	---	87.49	88.93	84.77	92.87	---	---	87.21
8	92.67	87.66	88.34	86.38	---	86.44	89.43	86.99	91.60	---	96.82	89.61
9	90.29	86.86	89.67	88.10	---	86.38	93.14	87.28	---	---	94.18	91.94
10	91.08	86.86	90.07	86.60	---	88.83	96.77	88.72	96.92	---	93.68	95.81
11	91.55	87.28	93.94	87.32	88.98	94.48	93.89	89.22	96.91	---	91.88	95.25
12	90.83	87.55	91.70	90.86	87.34	92.97	88.28	87.68	97.20	97.20	92.61	95.08
13	90.93	89.34	90.38	---	92.35	94.08	89.79	89.44	94.75	95.70	92.52	94.63
14	90.00	89.20	89.39	---	91.49	93.68	91.48	90.99	93.44	93.11	91.58	92.07
15	89.75	87.56	88.38	---	89.95	95.07	92.91	92.25	92.55	91.90	91.60	91.79
16	91.13	88.10	87.97	---	89.64	92.41	91.96	88.86	93.79	95.00	---	91.55
17	93.78	86.80	89.34	---	88.64	91.92	91.80	88.62	93.22	93.80	96.98	92.24
18	90.86	86.45	88.62	---	87.22	94.54	89.66	87.50	92.91	94.09	93.81	92.39
19	89.78	87.19	91.48	---	91.45	95.65	89.45	87.00	93.54	93.01	93.36	90.79
20	89.51	87.09	89.02	---	90.22	94.81	90.21	88.28	93.25	92.53	---	90.88
21	89.06	88.11	90.28	---	89.27	93.35	89.82	88.98	95.02	91.76	93.56	90.65
22	88.05	87.77	88.63	---	92.48	---	89.02	91.70	93.96	94.93	---	89.97
23	87.57	87.01	88.25	---	92.62	97.20	93.67	89.11	91.48	93.55	94.41	90.60
24	87.38	86.26	87.73	---	91.14	97.06	94.19	89.09	93.80	93.89	92.88	89.36
25	90.45	86.14	82.04	---	89.41	---	91.20	89.03	---	---	93.72	89.48
26	90.28	88.79	82.17	86.65	90.42	95.01	90.15	88.12	93.43	93.68	93.61	92.34
27	92.33	73.61	82.08	85.29	88.33	---	89.99	97.36	93.66	94.43	93.33	91.40
28	93.32	62.76	84.25	88.30	88.74	---	90.73	97.20	92.68	---	---	91.22
29	92.95	59.80	91.03	89.26	---	---	90.43	92.94	93.30	91.52	92.99	89.65
30	92.89	74.09	91.03	90.55	---	94.30	90.87	91.28	93.92	91.93	93.09	90.47
31	92.88	---	88.99	87.36	---	97.45	---	92.28	---	93.60	91.67	---
MAX	93.78	93.39	93.94	90.89	94.88	97.45	96.77	97.36	97.20	97.20	97.29	95.81
CAL YR 2004	LOW 97.44											
WTR YR 2005	LOW 97.45											



395352083292000. Local Number, M-5A

LOCATION.—Latitude 39°53'52", longitude 83°29'20", Madison County, Hydrologic Unit 05060002, at London Correctional Institute near London, Ohio.

Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 116 ft, cased to 111 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,090 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

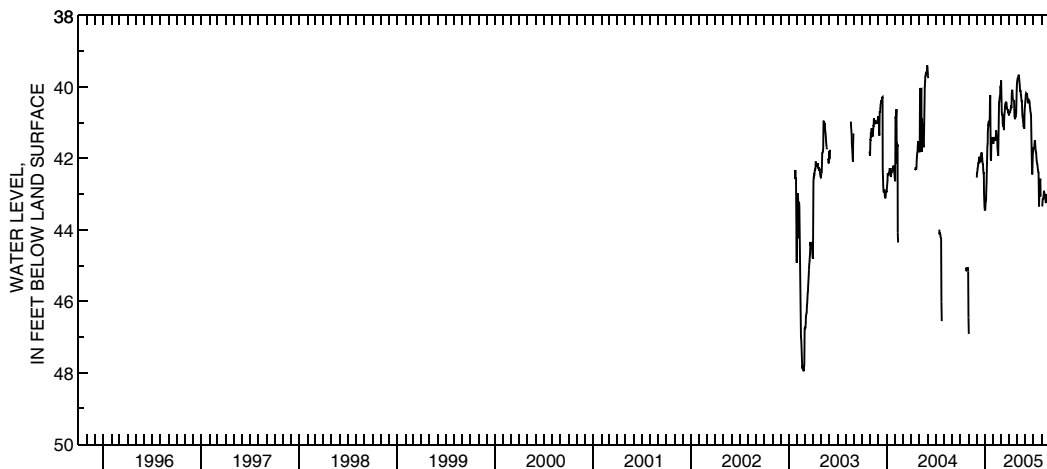
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—November 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 47.96 ft below land-surface datum, Feb. 25, 2003; minimum daily low, 39.39 ft below land-surface datum, May 31, 2004.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	46.46	---	43.44	41.57	39.96	40.80	39.90	40.41	41.70	---	43.44
2	---	46.92	42.54	43.44	41.57	40.03	40.68	39.82	40.32	41.72	---	43.64
3	---	---	42.42	43.43	41.52	39.82	40.71	39.78	40.23	41.72	43.35	43.23
4	---	---	42.39	43.23	41.48	40.17	40.71	39.75	40.18	41.72	43.28	43.07
5	---	---	42.29	43.17	41.40	40.67	40.71	39.75	40.20	41.61	43.14	---
6	---	---	42.23	42.93	41.48	40.77	40.65	39.74	40.20	41.52	43.14	---
7	---	---	42.14	42.68	41.49	40.78	40.62	39.66	40.20	41.52	43.11	---
8	---	---	42.14	42.15	41.49	41.01	40.56	39.72	40.29	41.66	43.02	43.02
9	---	---	42.12	41.97	41.49	41.07	40.57	39.78	40.38	41.79	42.93	43.65
10	---	---	41.96	41.67	41.42	41.10	40.59	39.87	40.43	41.82	42.93	43.26
11	---	---	42.00	41.58	41.40	41.06	40.26	39.99	40.43	41.84	43.01	43.32
12	---	---	42.00	41.25	41.22	41.12	40.10	40.11	40.43	41.99	43.02	45.18
13	---	---	42.03	41.12	41.32	41.21	40.08	40.11	40.41	42.07	43.02	44.13
14	---	---	42.09	41.06	41.39	40.92	40.18	40.11	40.40	42.12	43.07	45.06
15	---	---	42.09	41.07	41.43	40.74	40.31	40.20	40.38	42.14	43.16	44.93
16	---	---	42.03	41.03	41.46	40.68	40.38	40.26	40.40	42.18	43.23	44.16
17	---	---	41.94	40.95	41.69	40.55	---	40.35	40.44	42.27	43.23	44.19
18	---	---	41.94	40.97	41.81	40.49	---	40.40	40.55	42.32	43.17	43.98
19	---	---	41.85	40.86	41.91	40.44	---	40.40	40.62	42.38	43.07	43.89
20	---	---	41.85	40.43	41.93	40.43	40.37	40.59	40.70	42.39	43.04	43.82
21	---	---	41.93	40.23	41.21	40.44	40.73	40.80	40.73	42.68	43.04	43.79
22	45.15	---	41.99	41.28	40.65	40.44	40.83	40.86	40.80	43.35	43.02	43.91
23	45.15	---	42.09	42.00	40.44	40.47	40.88	40.89	41.22	42.96	43.02	44.37
24	45.06	---	42.14	42.07	40.40	40.60	40.88	41.00	41.61	42.81	43.05	44.46
25	45.09	---	42.18	41.61	40.34	40.60	40.82	41.09	42.07	42.69	43.08	44.49
26	45.11	---	42.30	41.40	40.26	40.63	40.82	41.09	42.36	42.62	43.08	44.61
27	45.12	---	42.42	41.55	40.25	40.65	40.74	41.15	42.45	42.57	43.02	44.70
28	---	---	42.42	41.58	40.02	40.65	40.74	41.15	42.06	43.08	43.01	44.19
29	45.12	---	42.96	41.55	---	40.71	40.40	40.77	41.88	---	43.01	43.85
30	45.06	---	43.19	41.49	---	40.71	40.00	40.59	41.79	---	42.92	43.85
31	45.17	---	43.34	41.54	---	40.75	---	40.49	---	---	42.82	---
MAX	45.17	46.92	43.34	43.44	41.93	41.21	40.88	41.15	42.45	43.35	43.35	45.18
CAL YR 2004		LOW 46.92										
WTR YR 2005		LOW 46.92										



395357083304400. Local Number, M-4

LOCATION.—Latitude 39°53'57", longitude 83°30'44", Madison County, Hydrologic Unit 05060002, 3.5 mi northwest of London, Ohio. Owner: State of Ohio.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 10 in., depth 49 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,112 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

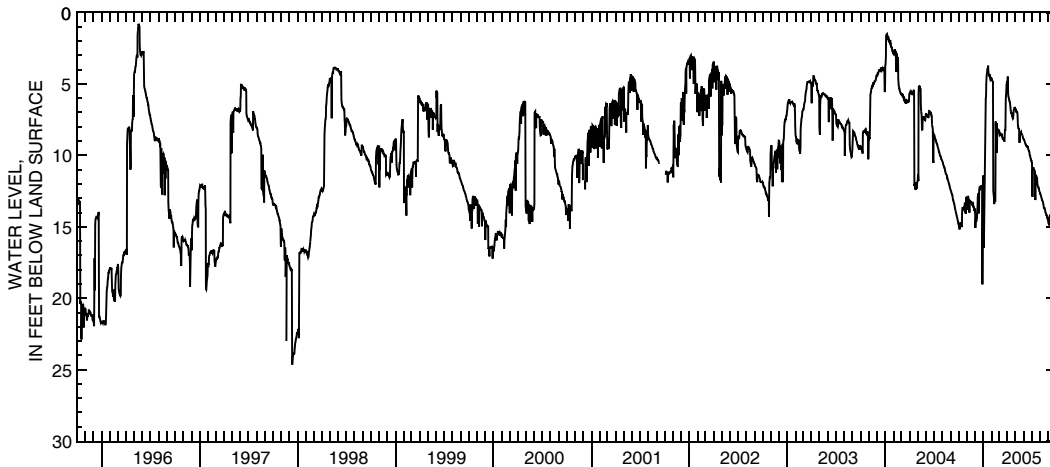
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—June 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 28.6 ft below land-surface datum, Oct. 26, 1993; minimum daily low 0.50 ft above land-surface datum, May 13, 14, and 16, 1989.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.79	13.82	13.90	11.73	4.71	8.43	4.91	6.72	8.87	10.46	12.66	14.67
2	14.94	12.99	13.86	11.39	4.68	8.49	4.58	6.78	8.90	10.53	12.67	14.78
3	14.96	13.00	15.09	16.47	4.74	8.54	4.48	6.89	8.94	12.56	12.77	14.85
4	15.10	12.96	14.61	15.85	4.79	8.48	5.73	6.96	9.00	12.90	12.84	14.90
5	15.18	13.00	14.16	9.90	4.84	8.59	5.90	6.96	9.06	11.06	12.90	14.24
6	14.78	12.96	14.64	8.55	4.82	8.56	6.00	6.93	9.15	10.88	12.98	14.19
7	14.79	13.10	14.39	7.50	12.47	8.43	6.06	7.01	9.20	10.88	13.07	14.21
8	14.78	13.14	14.45	6.78	12.71	8.61	6.18	7.05	9.23	10.94	13.13	14.30
9	14.87	13.14	14.12	6.47	12.80	8.61	6.21	7.25	9.30	11.01	13.17	14.37
10	14.93	14.01	13.86	6.03	13.15	8.48	6.29	7.91	9.31	11.04	13.22	14.43
11	14.96	13.13	12.93	5.82	13.41	8.52	6.39	8.07	9.36	11.07	13.28	14.48
12	14.97	13.19	12.83	5.02	13.08	8.66	6.60	8.13	9.36	11.13	13.32	14.45
13	14.97	13.25	12.71	4.52	13.10	8.76	6.87	8.13	9.42	11.69	13.43	14.54
14	14.03	13.26	12.69	4.39	13.19	8.81	6.94	8.16	9.42	13.13	13.58	14.64
15	13.70	13.25	14.07	4.22	13.19	8.85	7.05	8.30	9.36	11.75	13.64	14.72
16	13.71	13.28	13.92	3.96	7.64	8.84	7.10	9.12	9.42	11.39	13.68	14.84
17	13.75	13.31	12.45	3.90	8.36	8.84	7.06	8.46	9.49	11.43	13.68	14.90
18	13.74	13.35	12.30	3.90	9.60	8.88	7.10	8.51	9.59	11.45	13.74	15.00
19	13.70	13.34	12.33	3.71	7.77	8.88	7.11	8.49	9.63	11.54	13.83	15.03
20	13.75	13.44	12.30	4.09	7.74	8.99	7.36	8.40	9.66	11.57	13.89	15.06
21	13.79	13.47	12.21	4.26	9.80	9.00	7.43	8.41	9.69	11.64	14.00	15.08
22	13.82	13.44	12.21	4.37	8.13	8.37	7.40	8.37	9.81	12.05	14.03	15.09
23	13.56	13.44	12.24	4.47	8.16	8.16	7.26	8.46	9.93	12.14	14.09	15.18
24	13.32	13.41	12.20	4.39	8.19	8.27	6.98	8.52	10.01	12.18	14.19	15.25
25	13.35	13.59	12.12	4.32	8.21	8.04	6.81	8.55	10.06	12.24	14.21	15.29
26	13.37	13.59	12.17	4.55	8.34	6.06	6.75	8.56	10.20	12.24	14.21	15.40
27	13.38	13.62	12.20	4.65	8.33	5.76	6.69	8.61	10.26	12.32	14.33	15.47
28	14.09	13.83	12.09	4.62	8.19	5.46	6.68	8.67	10.29	12.36	14.43	15.47
29	13.32	13.83	19.04	4.50	---	5.04	6.61	8.73	10.37	12.48	14.46	15.60
30	12.90	13.82	14.50	4.59	---	4.91	6.71	8.81	10.38	12.56	14.43	15.66
31	12.96	---	12.00	4.64	---	4.92	---	8.85	---	12.62	14.58	---
MAX	15.18	14.01	19.04	16.47	13.41	9.00	7.43	9.12	10.38	13.13	14.58	15.66
CAL YR 2004	LOW 19.04											
WTR YR 2005	LOW 19.04											



395740083255700. Local Number, M-3

LOCATION.—Latitude 39°57'40", longitude 83°25'57", Madison County, Hydrologic Unit 05060002, 5.2 mi north of London, Ohio. Owner: State of Ohio.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 12 in., depth 290 ft, cased to 145 ft.

INSTRUMENTATION.—Periodic measurement with chalked tape by Ohio Department of Natural Resources personnel.

DATUM.—Elevation of land-surface datum is 1,020 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—November 1974 to October 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum measured low, 12.01 ft below land-surface datum, Dec. 18, 1991; minimum daily low, 3.93 ft below land-surface datum, Feb. 25 and Mar. 19, 1975.

WATER LEVEL,
IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
Oct. 22, 2004	8.95
Apr. 20, 2005	5.88

Ground-Water Records—Mahoning County

410042080453800. Local Number, MA-1

LOCATION.—Latitude 41°00'42", longitude 80°45'38", Mahoning County, Hydrologic Unit, 05030103, in county fairgrounds at south edge of Canfield, Ohio.
 Owner: City of Canfield.

AQUIFER.—Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 170 ft, cased to 99.5 ft.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,160 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter at land-surface datum.

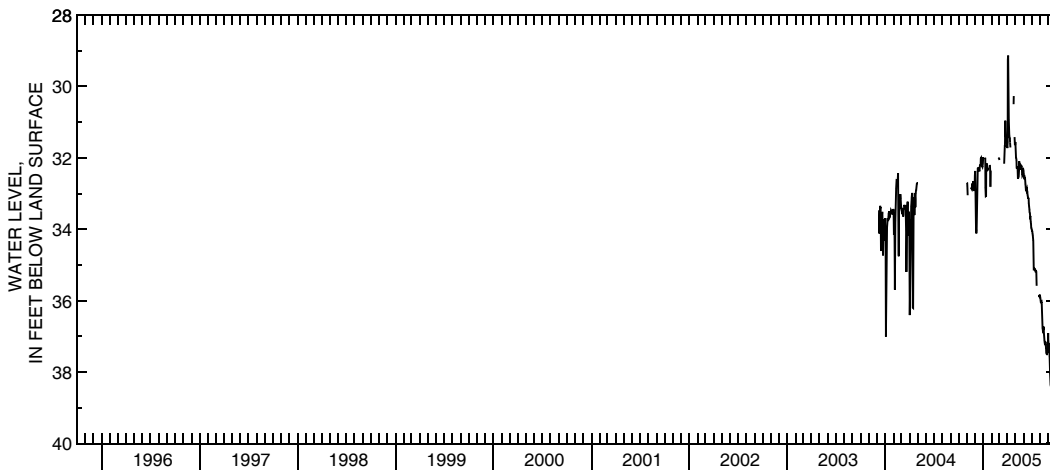
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. Influenced by seasonal water demand at county fairgrounds.

PERIOD OF RECORD.—May 1946 to September 1982 continuous, periodic October 1982 to December 2003, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 110.75 ft below land-surface datum, Sept. 18, 1946; minimum daily low, 29.14 ft below land-surface datum, Apr. 4, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	32.70	32.49	31.99	---	32.00	31.73	31.56	32.45	34.02	35.86	37.11
2	---	32.71	32.37	32.04	---	32.07	31.56	31.80	32.51	34.05	35.93	37.21
3	---	32.79	32.55	32.01	---	---	29.25	31.99	32.58	34.06	35.99	37.22
4	---	33.05	33.36	---	---	---	29.14	32.01	32.58	34.12	36.05	37.32
5	---	---	33.98	---	---	---	30.39	32.07	32.56	34.17	36.06	37.56
6	---	---	34.12	---	---	---	30.94	32.28	32.60	34.33	36.04	37.85
7	---	---	34.03	32.00	32.01	---	31.19	32.28	32.74	34.60	36.11	38.04
8	---	---	33.23	32.02	---	---	31.37	32.24	32.83	35.13	36.42	38.23
9	---	---	32.95	32.84	---	---	31.44	32.30	32.91	35.13	36.66	38.36
10	---	---	32.61	33.08	---	---	31.47	32.59	32.93	35.12	36.77	38.40
11	---	---	32.31	33.07	---	---	31.58	32.56	32.84	35.11	36.84	38.43
12	---	---	32.31	32.29	---	---	31.71	32.55	32.83	35.12	36.83	38.38
13	---	---	32.28	32.38	---	---	---	32.52	32.91	35.15	36.81	38.35
14	---	---	32.33	32.16	---	---	---	32.35	32.96	35.17	36.73	38.36
15	---	---	32.35	32.24	---	---	---	32.10	33.04	35.19	36.88	38.31
16	---	---	32.35	32.24	---	---	---	32.17	33.08	35.19	36.99	38.06
17	---	32.83	32.36	32.31	---	---	---	32.26	33.13	35.18	37.12	37.80
18	---	32.87	32.36	32.34	---	---	---	32.29	33.13	35.20	37.17	37.52
19	---	32.88	32.24	32.33	---	---	---	32.29	33.14	35.59	37.23	37.30
20	---	32.80	32.21	32.30	---	32.17	---	32.31	33.27	---	37.24	37.16
21	---	32.72	32.20	32.30	---	31.95	---	32.31	33.37	---	37.15	37.13
22	---	32.81	32.19	32.30	---	31.67	---	32.27	33.45	---	37.25	37.03
23	---	32.81	32.02	---	---	31.67	---	32.23	33.54	---	37.35	36.94
24	---	32.81	32.00	---	---	30.96	30.50	32.24	33.57	---	37.47	36.93
25	---	32.66	32.05	---	---	31.19	30.27	32.33	33.65	---	37.50	36.76
26	---	32.91	32.15	32.20	---	31.39	---	32.35	33.64	---	37.51	36.59
27	---	32.91	32.24	32.40	---	31.45	---	32.50	33.79	---	37.51	36.97
28	---	32.83	32.25	32.81	32.03	31.44	31.42	32.48	33.86	35.84	37.44	37.10
29	---	32.68	32.26	32.36	---	31.42	31.62	32.33	33.96	35.89	37.43	37.25
30	---	32.70	32.19	---	---	31.56	31.62	32.32	33.98	35.90	37.43	37.13
31	---	---	32.15	---	---	31.67	---	32.37	---	35.86	36.91	---
MAX	---	33.05	34.12	33.08	32.03	32.17	31.73	32.59	33.98	35.90	37.51	38.43
CAL YR 2004	LOW 37.01											
WTR YR 2005	LOW 38.43											



Ground-Water Records—Marion County

403413083170500. Local Number, MN-4

LOCATION.—Latitude 40°34'13", longitude 83°17'05", Marion County, Hydrologic Unit 05060001, 1.9 mi southeast of New Bloomington, Ohio. Owner: State of Ohio.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 12 in., depth drilled 290 ft, present depth 286 ft, cased to 33 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 915.96 ft above sea level. Measuring point: Floor of shelter 3.00 ft above land-surface datum.

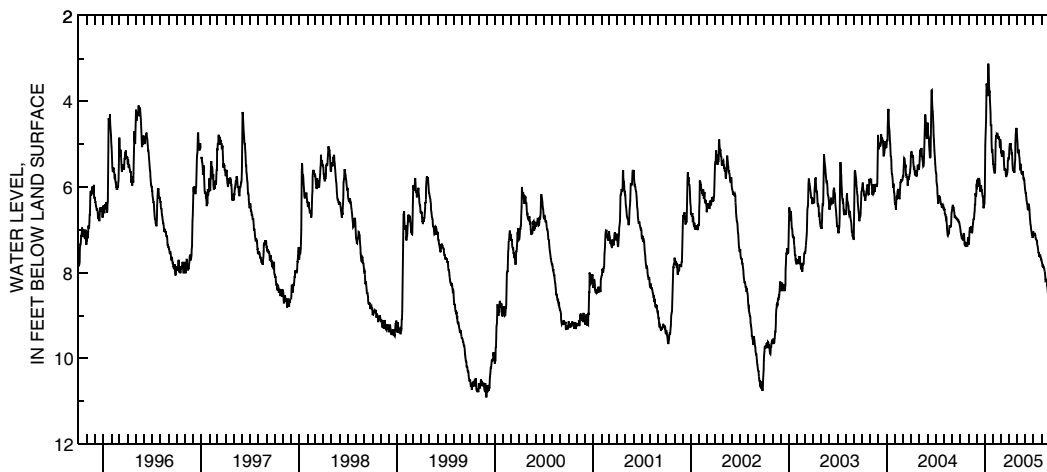
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. Influenced by seasonal water demand for nearby wildlife refuge.

PERIOD OF RECORD.—January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 32.57 ft below land-surface datum, Sept. 14, 1983; minimum daily low, 2.94 ft below land-surface datum, Jan. 1, 1991.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.94	7.34	5.99	6.17	5.48	5.00	5.36	4.77	6.09	7.04	7.73	8.31
2	7.01	7.28	6.00	5.39	5.46	5.15	5.16	4.88	6.14	7.10	7.76	8.21
3	7.05	7.34	5.85	5.02	5.54	5.21	5.09	5.01	6.14	7.10	7.79	8.19
4	7.08	7.17	5.84	4.76	5.60	5.18	5.00	5.18	6.20	7.10	7.85	8.17
5	7.15	7.06	5.96	4.44	5.67	5.28	5.00	5.21	6.26	7.10	7.86	8.19
6	7.17	6.94	5.90	3.93	5.67	5.28	5.02	5.16	6.32	7.11	7.86	8.17
7	7.22	6.96	5.87	3.59	5.67	5.15	4.98	5.15	6.38	7.10	7.85	8.17
8	7.16	7.04	5.99	3.65	5.57	5.24	5.06	5.24	6.41	7.13	7.88	8.13
9	7.16	7.06	5.96	3.66	5.36	5.25	5.12	5.28	6.47	7.19	7.91	8.16
10	7.23	6.99	5.79	3.86	4.93	5.24	5.16	5.33	6.54	7.22	7.89	8.22
11	7.25	6.92	5.84	3.86	4.89	5.16	5.24	5.46	6.51	7.23	7.95	8.28
12	7.22	6.96	5.85	3.72	4.80	5.27	5.19	5.61	6.44	7.25	7.97	8.30
13	7.10	7.05	5.93	3.20	4.84	5.43	5.36	5.57	6.41	7.25	8.00	8.30
14	7.10	7.08	6.08	3.12	4.79	5.52	5.46	5.46	6.41	7.26	8.09	8.31
15	7.08	7.05	6.11	3.21	4.80	5.60	5.57	5.55	6.45	7.32	8.17	8.41
16	7.20	6.94	6.02	3.44	4.76	5.60	5.63	5.61	6.53	7.38	8.16	8.39
17	7.32	6.90	6.02	3.68	4.76	5.57	5.60	5.64	6.60	7.40	8.17	8.28
18	7.36	6.83	5.96	3.78	4.79	5.60	5.60	5.69	6.72	7.43	8.16	8.24
19	7.28	6.78	6.08	3.78	4.86	5.60	5.63	5.64	6.80	7.49	8.21	8.24
20	7.32	6.74	6.06	3.96	4.88	5.70	5.64	5.66	6.87	7.55	8.24	8.16
21	7.36	6.76	6.11	4.13	4.82	5.75	5.67	5.72	6.89	7.53	8.30	8.17
22	7.40	6.72	6.15	4.27	4.84	5.75	5.63	5.67	6.96	7.56	8.34	8.12
23	7.31	6.61	6.20	4.56	4.88	5.66	5.46	5.63	7.02	7.64	8.41	8.09
24	7.29	6.56	6.23	4.56	4.88	5.70	5.36	5.75	7.04	7.62	8.48	7.95
25	7.35	6.42	6.23	4.56	4.91	5.69	4.98	5.82	7.11	7.64	8.51	7.77
26	7.36	6.42	6.41	4.91	5.06	5.66	4.79	5.81	7.13	7.58	8.49	7.51
27	7.38	6.14	6.50	5.15	5.07	5.58	4.69	5.84	7.16	7.61	8.48	7.31
28	7.38	6.20	6.47	5.19	4.89	5.37	4.67	5.84	7.19	7.64	8.56	7.05
29	7.29	6.23	6.38	5.12	---	5.39	4.62	5.91	7.16	7.65	8.61	6.86
30	7.17	6.14	6.41	5.22	---	5.31	4.69	5.99	7.16	7.69	8.58	6.81
31	7.31	---	6.35	5.33	---	5.34	---	6.06	---	7.69	8.36	---
MAX	7.40	7.34	6.50	6.17	5.67	5.75	5.67	6.06	7.19	7.69	8.61	8.41
CAL YR 2004	LOW 7.40											
WTR YR 2005	LOW 8.61											



403443083230400. Local Number, MN-1

LOCATION.—Latitude 40°34'43", longitude 83°23'04", Marion County, Hydrologic Unit 05060001, State Route 37 at Baptist Church in LaRue, Ohio. Owner: Village of LaRue.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 4 in., depth 100 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 930 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

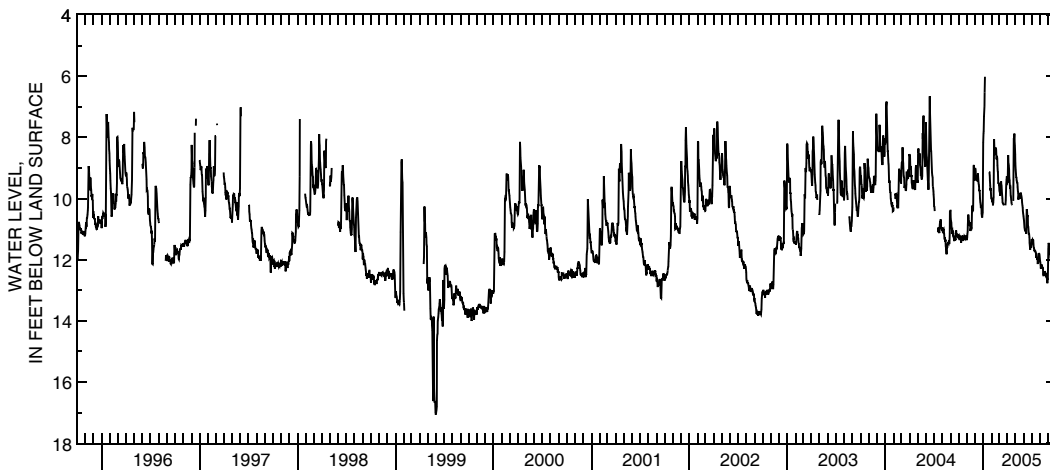
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 17.04 ft below land-surface datum, May 31 and June 1, 1999; minimum daily low, 5.67 ft below land-surface datum, Jan. 23, 1959.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.21	11.36	9.30	8.17	10.01	9.53	9.48	8.84	10.64	11.36	12.02	11.61
2	11.20	11.27	9.03	7.86	9.98	9.71	9.45	9.06	10.72	11.36	12.09	11.45
3	11.28	11.17	9.03	7.81	10.09	9.75	9.05	9.20	10.79	11.34	12.18	11.51
4	11.31	11.09	9.12	7.31	10.13	9.74	8.58	9.30	10.95	11.37	12.29	11.55
5	11.26	10.85	9.39	6.98	10.14	9.91	8.85	9.31	11.01	11.36	12.21	11.79
6	11.25	10.52	9.34	6.53	10.22	9.81	8.91	9.41	11.07	11.37	12.15	11.81
7	11.36	10.64	9.41	6.02	10.13	9.63	9.06	9.47	11.00	11.49	12.24	11.82
8	11.24	10.79	9.42	---	9.95	9.44	9.33	9.49	11.03	11.61	12.23	11.92
9	11.31	10.82	9.42	---	8.63	9.53	9.41	9.62	11.10	11.64	12.24	11.96
10	11.45	10.79	9.39	---	8.06	9.59	9.60	9.76	11.15	11.69	12.26	12.05
11	11.36	10.80	9.24	---	8.22	9.71	9.63	9.83	10.56	11.69	12.27	12.14
12	11.36	10.80	9.18	---	8.52	9.87	9.62	10.04	10.35	11.75	12.33	12.14
13	11.30	10.88	9.34	---	8.58	9.99	9.91	9.95	10.40	11.73	12.51	12.12
14	11.27	11.06	9.49	---	8.49	10.14	9.93	9.87	10.58	11.73	12.51	12.23
15	11.21	11.00	9.53	---	8.54	10.16	10.04	9.90	10.55	11.75	12.41	12.26
16	11.25	10.95	9.60	---	8.41	10.19	10.13	9.83	10.61	11.77	12.42	12.21
17	11.36	10.97	9.76	---	8.34	10.19	10.19	9.87	10.91	11.93	12.44	11.64
18	11.36	10.98	9.72	---	8.41	10.19	10.22	9.93	10.92	11.79	12.41	11.64
19	11.33	10.95	9.84	---	8.69	10.20	---	10.01	11.10	11.88	12.41	11.69
20	11.30	10.41	9.99	---	8.72	10.22	---	9.81	11.16	11.96	12.45	11.78
21	11.30	10.23	10.13	---	8.61	---	---	9.83	11.16	12.00	12.44	11.76
22	11.33	10.37	10.19	---	8.70	---	---	9.87	11.27	11.92	12.48	11.75
23	11.25	10.40	10.28	9.14	8.91	---	10.08	9.91	11.45	12.14	12.56	11.51
24	11.27	10.38	10.28	9.14	9.11	---	9.51	9.95	11.57	12.09	12.57	---
25	11.30	9.91	10.22	9.24	9.14	10.22	8.06	10.04	11.67	12.05	12.53	---
26	11.33	8.94	10.49	9.41	9.49	10.05	8.06	10.13	11.51	12.08	12.51	---
27	11.31	8.90	10.58	9.59	9.51	9.71	7.88	10.22	11.55	12.00	12.57	---
28	11.24	9.24	10.62	9.74	9.49	9.53	8.09	10.30	11.61	11.78	12.77	---
29	11.24	9.30	10.52	9.67	---	9.38	8.27	10.41	11.57	11.81	12.65	---
30	11.24	9.41	10.47	9.89	---	9.27	8.56	10.50	11.49	11.84	12.63	---
31	11.30	---	9.95	9.98	---	9.44	---	10.58	---	11.96	12.15	---
MAX	11.45	11.36	10.62	9.98	10.22	10.22	10.22	10.58	11.67	12.14	12.77	12.26
CAL YR 2004		LOW 11.82										
WTR YR 2005		LOW 12.77										



403601083110400. Local Number, MN-2

LOCATION.—Latitude 40°36'01", longitude 83°11'04", Marion County, Hydrologic Unit 05060001, 2 mi west of Marion, Ohio. Owner: City of Marion.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 12 in., depth 67 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 910 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

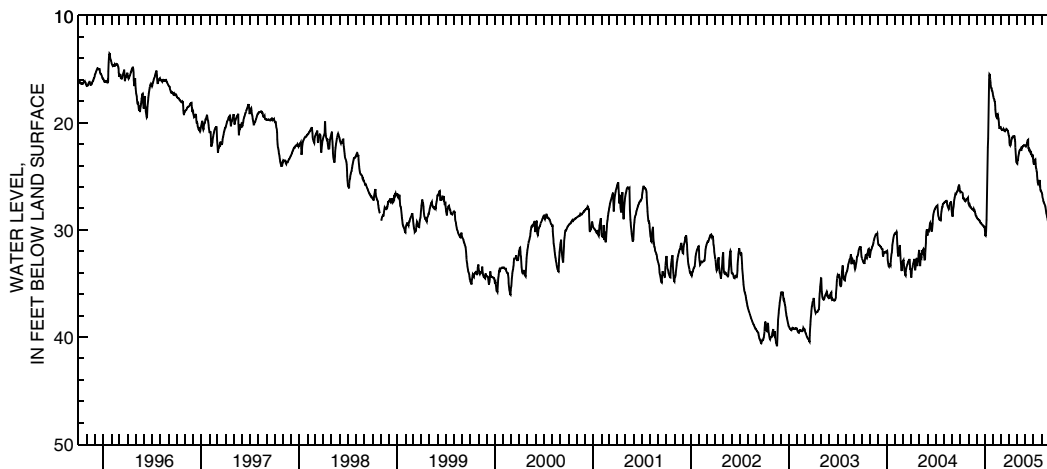
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 49.50 ft below land-surface datum, Feb. 11, 1956; minimum daily low, 7.00 ft below land-surface datum, July 12, 1987.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.45	27.57	28.80	29.91	17.46	20.47	21.21	23.82	22.19	23.60	26.52	29.82
2	26.40	27.65	28.85	30.35	17.58	20.54	21.38	23.85	22.22	23.84	26.58	29.82
3	26.40	27.57	28.89	30.54	17.72	20.58	21.86	23.43	22.23	23.93	26.73	29.55
4	26.43	27.48	28.93	30.57	17.79	20.60	22.08	23.47	22.13	23.69	26.94	29.28
5	26.46	27.65	28.98	30.18	17.88	20.69	22.08	23.43	22.07	23.52	27.06	29.12
6	26.48	27.74	29.00	29.87	18.00	20.69	22.13	23.19	22.02	23.47	27.20	29.42
7	26.51	27.86	29.04	29.10	18.05	20.67	22.02	22.98	21.89	23.45	27.36	29.90
8	26.52	27.90	29.08	27.45	18.38	20.67	21.96	22.83	21.77	23.43	27.42	30.24
9	26.55	27.90	29.07	25.79	18.78	20.67	21.75	22.71	21.68	23.82	27.47	30.36
10	26.58	27.90	29.10	24.15	19.08	20.61	21.60	22.58	21.62	24.12	27.54	30.30
11	26.83	27.93	29.16	23.07	19.23	20.58	21.53	22.55	21.59	24.27	27.60	30.36
12	27.06	27.99	29.16	22.29	19.38	20.66	21.42	22.55	22.38	24.39	27.66	30.54
13	27.15	28.05	29.25	21.51	19.47	20.72	21.35	22.50	22.47	24.53	27.74	30.69
14	27.00	28.08	29.30	19.80	19.50	20.76	21.39	22.44	22.35	24.65	27.81	30.84
15	27.09	28.10	29.31	18.17	19.26	20.79	21.38	22.50	22.43	24.96	27.88	31.05
16	27.18	28.13	29.34	16.92	19.17	20.81	21.36	22.55	22.50	25.31	28.07	31.11
17	27.26	28.13	29.38	15.96	19.32	20.70	21.30	22.56	22.59	25.58	28.29	30.65
18	27.30	28.14	29.38	15.48	19.26	20.67	21.27	22.44	22.68	25.63	28.43	30.20
19	27.32	28.14	29.45	15.53	19.43	20.66	21.24	22.38	22.76	25.56	28.55	30.06
20	27.27	28.04	29.46	15.75	19.49	20.69	21.24	22.29	22.80	25.63	28.65	29.81
21	27.29	28.17	29.49	15.96	19.64	20.69	21.24	22.29	22.71	25.73	28.76	29.64
22	27.30	28.26	29.52	16.26	19.97	20.69	21.26	22.25	22.77	25.79	28.86	29.70
23	27.18	28.29	29.57	16.55	20.22	20.60	21.57	22.17	22.86	25.59	29.07	29.83
24	27.12	28.26	29.58	16.72	20.46	20.63	21.78	22.16	22.95	25.35	29.19	29.88
25	27.12	28.38	29.60	16.80	20.58	20.67	22.35	22.16	23.03	25.59	29.25	30.12
26	27.13	28.47	29.64	16.80	20.47	20.73	22.85	22.13	23.12	25.86	29.30	30.48
27	27.11	28.52	29.67	16.95	20.46	20.75	23.25	22.10	23.18	26.25	29.38	30.57
28	27.11	28.65	29.67	17.01	20.31	20.76	23.58	22.08	23.04	26.34	29.46	30.62
29	27.05	28.70	29.70	17.04	---	20.93	23.70	22.07	22.98	26.34	29.63	30.58
30	27.00	28.71	29.72	17.18	---	21.03	23.72	22.05	23.24	26.40	29.70	30.30
31	27.20	---	29.73	17.31	---	21.18	---	22.16	---	26.45	29.81	---
MAX	27.32	28.71	29.73	30.57	20.58	21.18	23.72	23.85	23.24	26.45	29.81	31.11
CAL YR 2004	LOW 34.46											
WTR YR 2005	LOW 31.11											



Ground-Water Records—Medina County

410032081422900. Local Number, MD-5

LOCATION.—Latitude 41°00'32", longitude 81°42'29", Medina County, Hydrologic Unit 05040001, near Wadsworth, Ohio. Owner: City of Wadsworth.

AQUIFER.—Sandstone of Mississippian Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 12 in., depth 237 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,155 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

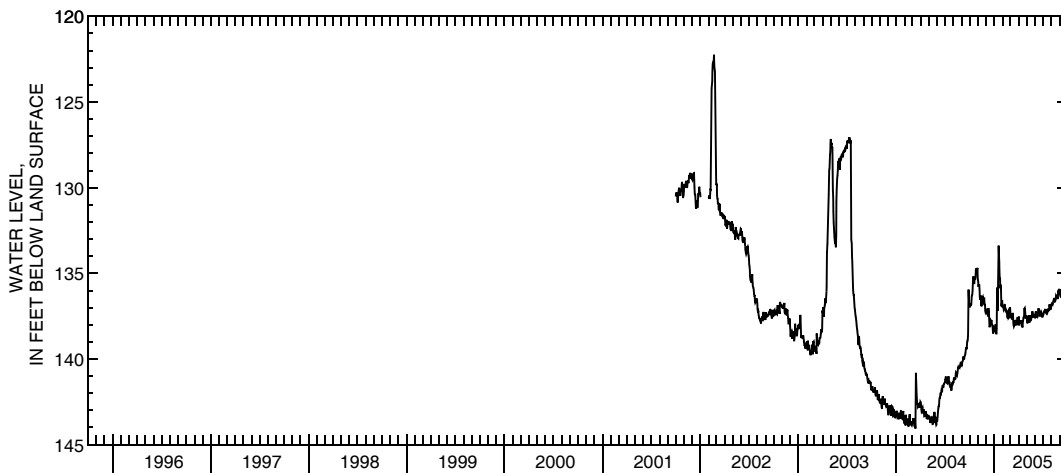
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—October 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 144.06 ft below land-surface datum, Mar. 13, 2004; minimum daily low, 122.25 ft below land-surface datum, Feb. 20, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136.94	135.41	137.12	138.38	136.97	137.04	138.04	137.52	137.58	137.31	136.92	136.04
2	136.94	135.54	137.13	138.36	136.97	137.43	137.52	137.57	137.48	137.41	136.83	136.13
3	136.94	135.79	137.12	138.18	136.86	137.57	137.70	137.70	137.39	137.40	136.77	136.22
4	136.77	135.64	137.12	138.23	137.00	137.57	137.91	137.88	137.29	137.36	136.71	136.32
5	136.86	135.69	137.39	138.14	137.12	137.58	137.94	137.88	137.29	137.26	136.79	136.37
6	136.85	135.69	137.36	137.97	137.10	137.58	137.88	137.73	137.24	137.22	136.82	136.35
7	136.83	136.02	137.16	138.29	137.06	137.34	137.73	137.55	137.37	137.22	136.76	136.25
8	136.66	136.34	137.48	138.51	136.85	137.60	137.81	137.61	137.45	137.16	136.70	136.04
9	136.31	136.53	137.48	138.51	136.85	137.70	137.85	137.57	137.55	137.19	136.65	135.93
10	136.28	136.46	137.03	138.24	137.03	137.61	137.84	137.45	137.57	137.21	136.56	136.01
11	136.25	136.29	137.21	136.02	137.03	137.31	137.85	137.69	137.54	137.13	136.54	136.05
12	136.04	136.50	137.26	135.84	137.04	137.51	137.81	137.87	137.49	137.12	136.54	135.95
13	135.60	136.83	137.70	136.42	137.24	137.88	137.76	137.82	137.31	137.13	136.44	135.75
14	135.32	136.92	138.12	137.19	137.10	138.00	137.88	137.45	137.17	137.24	136.58	135.71
15	135.18	136.88	138.15	135.66	137.24	138.09	138.06	137.48	137.04	137.36	136.65	135.83
16	135.27	136.61	138.03	134.37	137.22	138.03	138.16	137.63	137.14	137.37	136.64	135.79
17	135.56	136.49	137.91	133.39	137.31	137.82	137.97	137.69	137.22	137.33	136.53	135.78
18	135.57	136.39	137.75	133.85	137.52	137.79	137.75	137.70	137.41	137.29	136.46	135.87
19	135.33	136.37	137.79	134.37	137.60	137.78	137.61	137.60	137.48	137.16	136.31	135.91
20	135.32	136.49	137.84	134.89	137.60	137.88	137.54	137.48	137.48	137.17	136.35	135.83
21	135.33	136.70	137.72	135.30	137.26	138.00	137.59	137.55	137.41	137.09	136.34	135.90
22	135.33	136.68	137.89	135.31	137.45	138.00	137.52	137.48	137.28	137.09	136.32	135.84
23	135.15	136.53	137.97	135.85	137.60	137.78	137.06	137.22	137.29	137.21	136.39	135.98
24	134.72	136.42	138.06	135.86	137.57	137.85	137.03	137.46	137.24	137.13	136.46	135.98
25	134.79	136.70	138.08	135.67	137.07	137.88	137.28	137.57	137.29	136.86	136.46	135.83
26	134.84	136.85	138.23	136.27	137.45	137.91	137.27	137.52	137.43	136.86	136.28	135.50
27	134.75	136.85	138.51	136.85	137.45	137.91	137.55	137.43	137.51	136.94	136.01	135.69
28	134.84	137.14	138.47	136.92	136.98	137.57	137.66	137.43	137.51	136.98	136.07	135.67
29	134.73	137.26	138.11	136.76	---	137.82	137.60	137.48	137.57	137.03	136.04	135.90
30	134.69	137.21	138.14	136.56	---	137.85	137.46	137.49	137.51	137.09	135.96	135.98
31	135.24	---	138.09	136.76	---	137.94	---	137.57	---	137.07	135.91	---
MAX	136.94	137.26	138.51	138.51	137.60	138.09	138.16	137.88	137.58	137.41	136.92	136.37
CAL YR 2004	LOW 144.06											
WTR YR 2005	LOW 138.51											



Ground-Water Records—Mercer County

402833084375200. Local Number, MR-2

LOCATION.—Latitude 40°28'33", longitude 84°37'52", Mercer County, Hydrologic Unit 05120101, at AVCO Manufacturing Company building in Coldwater, Ohio. Owner: New Idea Farm Equipment Company

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 253 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 915 ft above sea level (from topographic map). Measuring point: Top of platform 1.2 ft above land-surface datum.

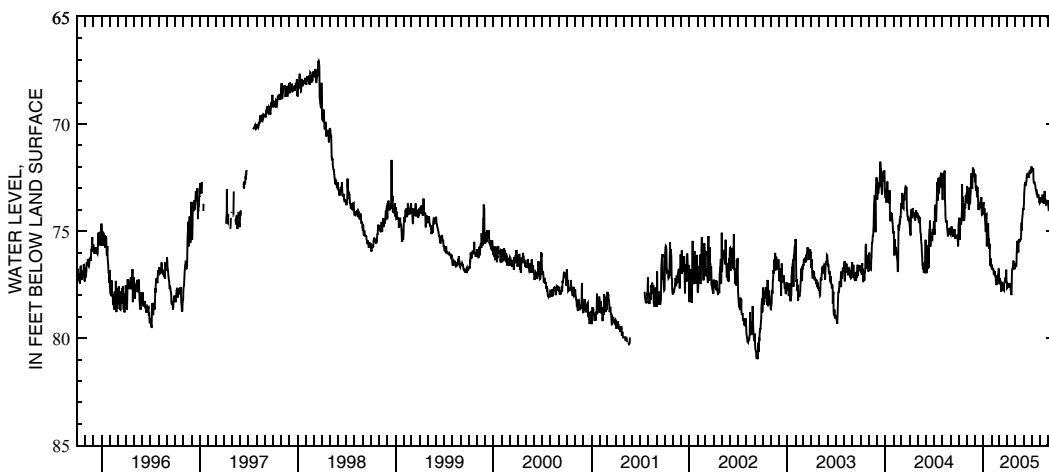
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 81.60 ft below land-surface datum, Sept. 15, 1988; minimum daily low, 60.13 ft below land-surface datum, Feb. 14, 1967.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.71	73.22	72.68	73.80	76.70	77.30	77.64	76.58	73.92	72.04	73.52	73.81
2	74.56	72.91	72.68	73.64	76.57	77.27	77.50	76.61	73.68	72.15	73.48	74.00
3	74.56	73.70	72.35	73.96	76.63	77.33	77.50	76.59	73.30	72.08	73.42	73.99
4	74.37	73.37	72.88	74.21	76.81	77.21	77.56	76.67	73.07	72.12	73.47	73.97
5	75.41	73.51	73.12	73.94	76.71	77.48	77.42	76.52	72.81	72.09	73.57	74.01
6	74.65	73.27	72.88	74.18	76.78	77.37	77.51	76.11	72.87	72.10	73.52	73.97
7	74.40	73.61	72.94	74.39	76.78	77.39	77.44	75.62	72.72	72.52	73.60	73.91
8	74.70	73.99	73.42	74.63	76.86	77.82	77.63	75.45	72.89	72.73	73.62	73.80
9	74.60	73.92	73.28	74.69	77.01	77.70	77.54	75.61	72.68	72.76	73.35	73.90
10	74.62	73.31	72.95	75.05	77.02	77.55	77.49	75.70	72.74	72.74	73.30	74.02
11	74.63	72.97	73.23	74.39	77.02	77.40	77.56	75.95	72.62	72.74	73.37	74.14
12	74.40	73.73	73.30	74.21	76.91	77.43	77.42	76.00	72.39	72.75	73.41	74.15
13	74.01	73.70	73.81	74.20	76.86	77.76	77.77	75.48	72.36	72.78	73.49	73.95
14	72.82	73.35	74.01	75.71	77.06	77.62	77.73	75.37	72.41	72.89	73.56	74.09
15	73.99	73.17	73.93	75.66	77.11	77.79	77.95	75.49	72.36	73.03	73.72	74.06
16	73.40	72.44	73.63	74.62	77.07	77.54	77.98	75.48	72.30	73.08	73.69	74.10
17	73.51	72.84	73.69	74.83	77.31	77.62	77.70	75.47	72.33	73.10	73.37	74.02
18	74.53	72.30	73.69	74.94	77.52	77.75	76.84	75.42	72.41	73.04	73.13	74.06
19	74.38	72.72	73.81	74.63	77.40	77.77	76.82	75.42	72.51	73.30	73.49	74.11
20	74.22	72.90	73.82	75.09	77.21	77.41	76.75	75.37	72.45	73.25	73.51	74.20
21	73.76	73.02	73.70	75.41	77.13	77.37	76.75	75.36	72.31	73.28	73.57	74.07
22	74.51	72.50	73.81	75.40	77.49	77.37	76.64	75.18	72.22	73.39	73.63	74.02
23	74.29	72.09	73.48	75.83	77.42	77.31	76.41	74.86	72.19	73.44	73.71	74.35
24	73.70	72.04	73.51	75.71	77.42	77.17	76.41	74.60	72.21	73.40	73.81	74.29
25	73.87	72.23	73.42	75.59	77.00	77.20	76.42	74.98	72.24	73.31	73.72	74.11
26	73.94	72.23	73.98	76.24	77.02	77.21	76.44	74.52	72.29	73.32	73.71	74.17
27	73.36	72.11	74.21	76.58	77.18	77.02	76.69	74.31	72.28	73.46	73.67	74.31
28	73.36	72.43	74.19	76.62	76.75	76.80	76.78	74.22	72.23	73.49	73.71	73.68
29	73.47	72.47	74.00	76.27	---	77.44	76.71	74.01	72.10	73.63	73.73	74.12
30	73.35	72.31	74.14	76.51	---	77.37	76.57	73.93	71.99	73.68	73.56	74.30
31	73.23	---	74.13	76.56	---	77.66	---	74.01	---	73.62	73.64	---
MAX	75.41	73.99	74.21	76.62	77.52	77.82	77.98	76.67	73.92	73.68	73.81	74.35
CAL YR 2004	LOW 76.97											
WTR YR 2005	LOW 77.98											



Ground-Water Records—Miami County

395848084085500. Local Number, MI-3

LOCATION.—Latitude 39°58'48", longitude 84°08'55", Miami County, Hydrologic Unit 05080001, 2 mi northeast of Tipp City, Ohio. Owner: Fulton Fruit Farms.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 5 in., depth 48 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 804.78 ft above sea level (levels by Miami Conservancy District). Measuring point: Floor of shelter 3.50 ft above land-surface datum.

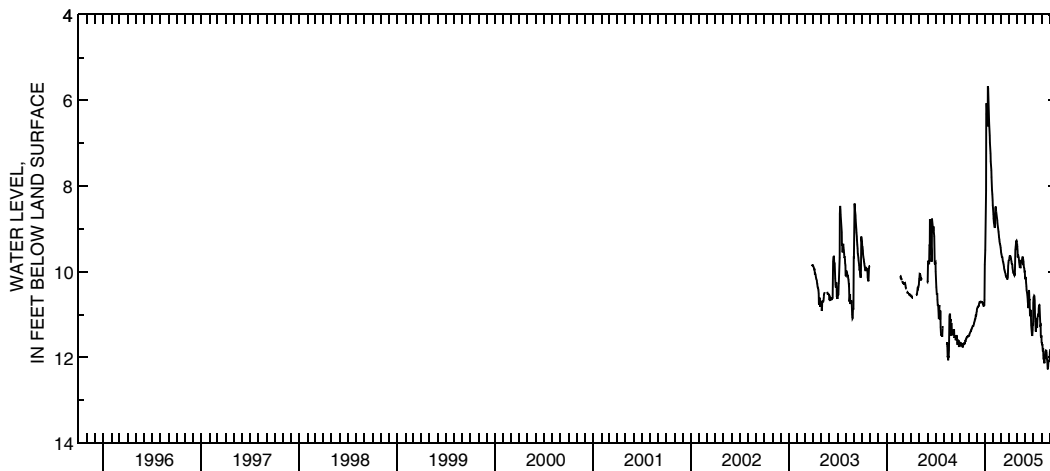
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—October 1966 to October 1982 continuous, periodic November 1982 to March 2003, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD—Maximum daily low, 13.45 ft below land-surface datum, July 25, 1988; minimum daily low, 5.68 ft below land-surface datum, Jan. 12, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.66	11.50	10.95	9.84	8.57	9.44	9.73	9.42	10.18	10.73	11.66	11.86
2	11.66	11.50	10.93	9.58	8.67	9.51	9.72	9.41	10.14	10.59	11.67	11.83
3	11.66	11.50	10.87	9.50	8.76	9.56	9.67	9.51	10.12	10.57	11.72	11.83
4	11.67	11.49	10.85	8.64	8.86	9.59	9.64	9.67	10.26	10.56	11.70	11.82
5	11.71	11.45	10.83	8.11	8.93	9.64	9.64	9.60	10.34	10.57	11.83	11.82
6	11.70	11.43	10.83	6.32	8.96	9.66	9.64	9.63	10.43	10.68	11.82	11.81
7	11.69	11.41	10.81	6.07	8.96	9.67	9.66	9.67	10.49	11.05	11.95	11.81
8	11.67	11.40	10.80	6.22	8.81	9.73	9.69	9.74	10.55	11.17	12.05	11.89
9	11.70	11.39	10.80	6.39	8.54	9.76	9.73	9.79	10.59	11.37	11.96	11.95
10	11.77	11.39	10.76	6.57	8.48	9.78	9.77	9.84	10.71	11.40	12.11	11.95
11	11.75	11.36	10.72	6.61	8.54	9.80	9.81	9.91	10.79	11.31	12.14	11.89
12	11.72	11.35	10.71	5.68	8.59	9.84	9.82	9.89	10.85	11.19	12.02	11.89
13	11.69	11.32	10.71	5.72	8.65	9.89	9.84	9.90	10.74	11.08	12.02	11.94
14	11.68	11.31	10.72	5.80	8.68	9.93	9.91	9.90	10.43	11.13	11.94	11.91
15	11.67	11.29	10.72	6.06	8.74	9.96	9.96	9.75	10.46	11.31	11.86	11.89
16	11.67	11.27	10.72	6.30	8.80	9.99	10.01	9.74	10.66	11.12	11.84	11.87
17	11.68	11.27	10.70	6.52	8.87	10.01	10.03	9.75	10.66	11.03	11.84	10.63
18	11.68	11.27	10.70	6.69	8.93	10.04	10.03	9.78	10.98	11.02	11.83	10.53
19	11.64	11.27	10.71	6.83	8.99	10.06	10.04	9.79	11.04	11.03	11.89	10.52
20	11.62	11.24	10.71	6.99	9.02	10.10	10.07	9.71	11.02	11.03	12.00	10.52
21	11.62	11.22	10.71	7.12	9.08	10.12	10.07	9.67	10.89	10.86	12.05	10.48
22	11.59	11.20	10.72	7.25	9.15	10.13	10.08	9.67	11.09	10.79	12.11	10.48
23	11.58	11.17	10.72	7.42	9.20	10.13	10.07	9.67	11.25	10.78	12.27	10.50
24	11.56	11.15	10.74	7.54	9.25	10.16	9.69	9.72	11.34	10.79	12.28	10.50
25	11.54	11.12	10.75	7.63	9.29	10.17	9.49	9.77	11.44	11.00	12.21	10.20
26	11.53	11.11	10.77	7.79	9.35	10.17	9.42	9.84	11.48	11.15	12.08	10.09
27	11.53	11.08	10.80	7.97	9.37	10.15	9.33	9.91	11.48	11.25	12.07	9.86
28	11.52	11.03	10.80	8.09	9.39	10.13	9.29	9.93	11.36	11.24	12.11	9.79
29	11.52	11.03	10.78	8.19	---	9.87	9.28	10.00	11.23	11.50	12.09	9.75
30	11.50	11.01	10.78	8.33	---	9.79	9.31	10.00	11.23	11.54	12.07	9.78
31	11.50	---	10.66	8.45	---	9.74	---	10.15	---	11.49	11.94	---
MAX	11.77	11.50	10.95	9.84	9.39	10.17	10.08	10.15	11.48	11.54	12.28	11.95
CAL YR 2004		LOW 12.07										
WTR YR 2005		LOW 12.28										



Ground-Water Records—Montgomery County

394012084151700. Local Number, MT-55

LOCATION.—Latitude 39°40'12", longitude 84°15'17", Montgomery County, Hydrologic Unit 05080002, Elm Street in West Carrollton, Ohio. Owner: Oxford Paper Company.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 12 in., depth 84 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 717.6 ft above sea level. Measuring point: Floor of instrument shelter 0.30 ft above land-surface datum.

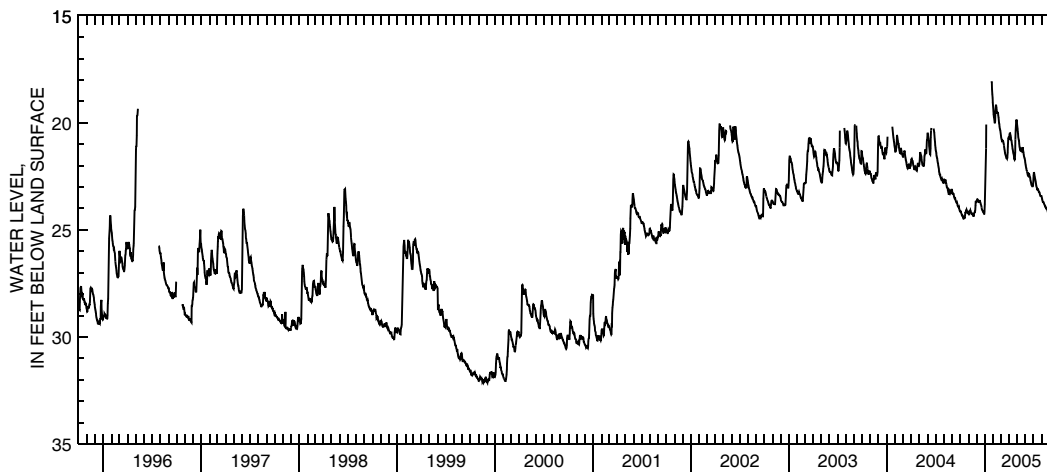
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 58.57 ft below land-surface datum, Nov. 24, 1974; minimum daily low, 18.06 ft below land-surface datum, Jan. 26, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.16	24.26	23.69	23.81	19.26	20.49	20.77	20.02	21.87	22.78	23.46	23.87
2	24.16	24.29	23.68	23.15	19.45	20.60	20.76	20.15	21.95	22.47	23.52	23.76
3	24.15	24.29	23.62	22.52	19.61	20.67	20.58	20.29	22.02	22.31	23.59	23.67
4	24.20	24.28	23.58	21.94	19.74	20.77	20.50	20.42	22.09	22.34	23.65	23.61
5	24.24	24.20	23.59	21.21	19.87	20.80	20.49	20.53	22.14	22.44	23.69	23.68
6	24.28	24.12	23.65	20.09	19.96	20.85	20.55	20.67	22.22	22.52	23.70	23.78
7	24.31	24.08	23.69	---	20.03	20.83	20.62	20.79	22.28	22.60	23.70	23.83
8	24.34	24.12	23.71	---	19.92	20.85	20.71	20.85	22.34	22.68	23.74	23.87
9	24.35	24.16	23.71	---	19.48	20.85	20.81	20.97	22.39	22.75	23.77	23.90
10	24.35	24.19	23.67	---	19.28	20.88	20.84	21.12	22.47	22.80	23.81	23.93
11	24.41	24.23	23.66	---	19.20	20.93	20.90	21.19	22.49	22.91	23.84	23.96
12	24.44	24.23	23.65	---	19.20	20.97	21.03	21.26	22.50	22.98	23.86	23.99
13	24.44	24.25	23.65	---	19.31	21.07	21.09	21.31	22.47	23.03	23.88	24.03
14	24.47	24.25	23.69	---	19.41	21.14	21.20	21.32	22.39	23.08	23.91	24.09
15	24.46	24.28	23.73	---	19.52	21.25	21.27	21.26	22.40	23.12	23.95	24.11
16	24.45	24.31	23.78	---	19.51	21.33	21.36	21.18	22.46	23.13	23.96	24.12
17	24.43	24.33	23.83	---	19.54	21.40	21.42	21.23	22.51	23.10	23.98	23.95
18	24.43	24.35	23.87	---	19.54	21.47	21.45	21.29	22.55	23.11	24.01	23.79
19	24.30	24.36	23.91	---	19.58	21.54	21.55	21.33	22.59	23.15	24.02	23.73
20	24.21	24.36	23.97	---	19.67	21.56	21.67	21.32	22.68	23.19	24.03	23.73
21	24.21	24.33	24.05	---	19.76	21.59	21.72	21.22	22.73	23.22	24.06	23.72
22	24.17	24.24	24.08	---	19.94	21.66	21.73	21.14	22.80	23.23	24.10	23.77
23	24.10	24.19	24.10	---	20.01	21.66	21.70	21.22	22.85	23.25	24.14	23.83
24	24.06	24.18	24.14	---	20.07	21.67	21.38	21.33	22.91	23.26	24.18	23.84
25	24.10	24.16	24.16	---	20.20	21.68	20.80	21.39	22.92	23.33	24.20	23.84
26	24.13	24.11	24.17	18.06	20.27	21.59	20.35	21.48	22.92	23.39	24.22	23.70
27	24.19	23.87	24.21	18.12	20.33	21.40	20.09	21.57	22.97	23.42	24.22	23.38
28	24.20	23.68	24.25	18.42	20.36	21.13	19.95	21.63	22.97	23.43	24.23	23.08
29	24.21	23.67	24.26	18.67	---	20.83	19.85	21.64	22.91	23.43	24.25	22.90
30	24.21	23.68	24.25	18.85	---	20.70	19.91	21.70	22.88	23.43	24.25	22.94
31	24.20	---	24.16	19.06	---	20.70	---	21.79	---	23.43	24.09	---
MAX	24.47	24.36	24.26	23.81	20.36	21.68	21.73	21.79	22.97	23.43	24.25	24.12
CAL YR 2004	LOW 24.47											
WTR YR 2005	LOW 24.47											



394025084162800. Local Number, MT-49

LOCATION.—Latitude 39°40'25", longitude 84°16'28", Montgomery County, Hydrologic Unit 05080002, 1.2 mi west of city hall in West Carrollton, Ohio.

Owner: Metal Shredders, Inc.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 220 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 714.61 ft above sea level (levels by Miami Conservancy District). Measuring point: Floor of shelter 2.50 ft above land-surface datum.

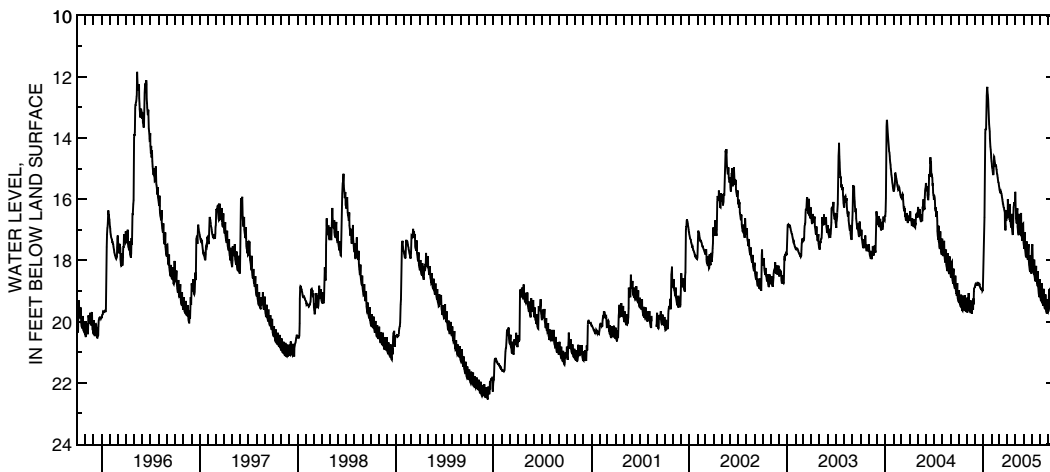
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—November 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 36.30 ft below land-surface datum, Dec. 8, 1974; minimum daily low, 10.68 ft below land-surface datum, Jan. 23, 1959.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.35	19.64	18.87	18.53	14.76	15.58	16.58	15.78	17.46	17.85	19.10	19.57
2	19.37	19.68	18.83	18.03	14.84	15.64	16.53	16.32	17.55	17.54	19.18	19.53
3	18.97	19.70	18.78	17.81	14.94	15.69	16.00	16.47	17.62	17.48	19.24	19.06
4	19.27	19.63	18.76	17.26	15.04	15.73	16.30	16.64	17.20	17.51	19.30	18.97
5	19.41	19.58	18.77	16.60	15.12	15.78	16.46	16.68	17.08	18.15	19.32	18.95
6	19.43	19.44	18.78	15.53	15.17	15.78	16.53	16.79	17.64	18.27	18.97	19.47
7	19.44	19.07	18.80	14.42	15.21	15.74	16.51	16.34	17.75	18.35	18.75	19.58
8	19.50	19.50	18.83	13.84	15.16	15.78	16.60	16.30	17.85	18.43	19.27	19.64
9	19.51	19.39	18.77	13.70	14.77	15.81	16.58	16.90	17.88	18.45	19.35	19.67
10	19.12	19.57	18.73	13.73	14.61	15.84	16.16	17.02	17.90	17.98	19.39	19.29
11	19.50	19.65	18.73	13.72	14.62	15.89	16.68	17.10	17.54	18.52	19.43	19.19
12	19.53	19.68	18.72	13.52	14.74	15.95	16.67	17.13	17.38	18.60	19.48	19.66
13	19.58	19.67	18.73	13.02	14.80	16.01	16.80	17.18	17.77	18.59	19.03	19.75
14	19.62	19.30	18.75	12.63	14.89	16.07	16.86	16.68	17.86	18.61	18.93	19.81
15	19.64	19.65	18.77	12.38	14.88	16.12	16.93	16.48	17.93	18.69	19.45	19.84
16	19.24	19.60	18.77	12.33	14.89	16.17	16.78	16.96	17.98	18.64	19.49	19.78
17	19.15	19.66	18.80	12.49	14.87	16.22	16.48	17.05	17.86	18.18	19.52	19.60
18	19.47	19.72	18.79	12.59	14.93	16.27	16.96	17.11	17.56	18.59	19.57	19.14
19	19.48	19.72	18.84	12.73	15.03	16.29	17.06	17.13	17.47	18.61	19.58	19.62
20	19.54	19.74	18.86	12.87	15.04	16.33	17.13	17.10	18.00	18.52	19.57	19.67
21	19.58	19.33	18.90	13.11	15.15	16.38	17.17	16.59	18.15	18.74	19.11	19.72
22	19.56	19.58	18.91	13.35	15.19	16.42	17.14	16.45	18.22	18.81	19.57	19.79
23	19.58	19.59	18.92	13.54	15.24	16.90	16.72	16.98	18.29	18.84	19.65	19.84
24	19.14	19.61	18.93	13.68	15.31	16.89	16.26	17.16	18.35	18.36	19.67	19.39
25	19.54	19.25	18.93	13.78	15.36	17.02	16.24	17.26	18.35	18.87	19.71	19.24
26	19.59	19.44	18.95	14.02	15.44	16.56	16.13	17.32	17.84	19.00	19.71	19.41
27	19.61	19.02	18.99	14.18	15.45	16.37	16.12	17.36	18.36	19.08	19.70	19.28
28	19.65	18.91	18.95	14.29	15.50	16.71	16.10	16.87	18.37	19.15	19.28	19.23
29	19.68	18.89	18.99	14.38	---	16.55	16.19	16.80	18.43	19.20	19.70	19.29
30	19.50	18.87	18.97	14.52	---	16.58	15.76	16.79	18.40	18.98	19.71	19.30
31	19.22	---	18.91	14.64	---	16.62	---	17.40	---	18.62	19.59	---
MAX	19.68	19.74	18.99	18.53	15.50	17.02	17.17	17.40	18.43	19.20	19.71	19.84
CAL YR 2004		LOW 19.74										
WTR YR 2005		LOW 19.84										



394425084113200. Local Number, MT-3

LOCATION.—Latitude 39°44'25", longitude 84°11'32", Montgomery County, Hydrologic Unit 05080002, Patterson Boulevard. at Stewart Street in Dayton, Ohio.

Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 80 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 744 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.20 ft above land-surface datum.

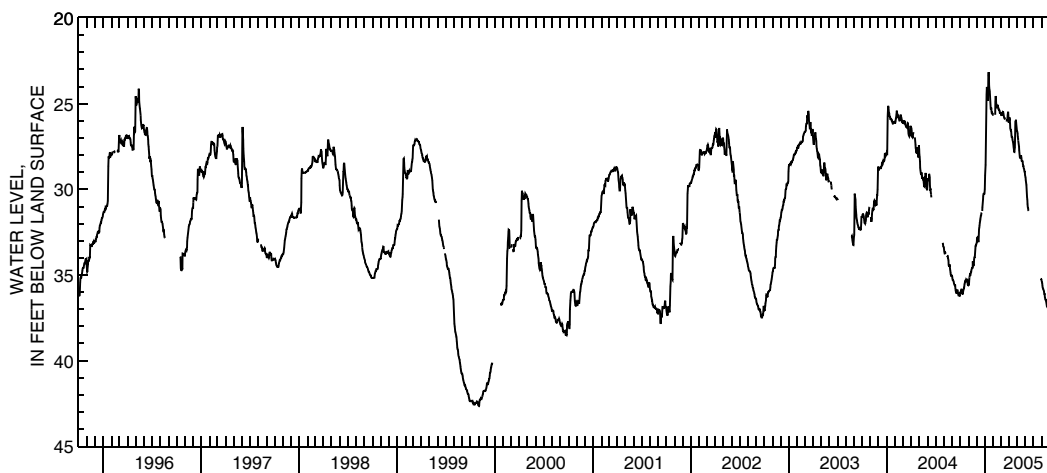
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1945 to June 1974. Reactivated June 1980.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low 78.90 ft below land-surface datum, May 24, 1968, and Sept. 30, 1969; minimum daily low, 23.16 ft below land-surface datum, Jan. 15, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.03	35.48	33.15	30.00	25.70	25.57	26.08	26.60	29.24	---	35.36	37.14
2	36.06	35.58	33.10	29.17	---	25.59	25.95	26.65	29.32	---	35.41	37.04
3	36.06	35.57	32.92	28.98	---	25.63	25.80	26.73	29.47	---	35.49	36.92
4	35.94	35.25	32.82	28.58	---	25.61	25.94	26.91	29.61	---	35.62	37.03
5	35.96	35.15	32.80	27.29	---	25.68	26.17	27.06	29.75	---	35.75	37.12
6	35.86	34.99	32.88	25.88	---	25.68	26.43	27.16	29.96	---	35.81	37.22
7	35.87	35.01	33.04	24.47	---	25.54	26.55	27.38	30.46	---	35.85	37.26
8	35.97	35.01	33.04	24.03	25.66	25.49	26.55	27.52	30.62	---	35.91	37.36
9	36.10	34.89	32.75	24.27	24.88	25.50	26.64	27.72	30.86	---	35.96	37.45
10	36.10	34.82	32.33	24.75	24.56	25.50	26.87	27.94	31.08	---	36.06	37.48
11	35.99	34.82	32.23	24.84	24.62	25.57	26.95	28.13	31.13	---	36.12	37.49
12	35.95	34.68	32.11	24.67	24.97	25.68	26.95	28.15	31.24	---	36.12	37.55
13	35.85	34.63	31.95	24.19	25.10	25.78	27.00	28.14	31.26	---	36.34	37.63
14	35.80	34.59	31.85	23.38	25.23	25.83	27.10	28.15	---	---	36.40	37.69
15	35.77	34.58	31.77	23.16	25.23	25.87	27.21	28.12	---	---	36.46	37.74
16	35.66	34.58	31.64	23.43	25.18	25.87	27.27	28.03	---	---	36.48	37.75
17	35.54	34.21	31.54	23.94	25.13	25.93	27.34	28.18	---	---	36.48	37.62
18	35.48	34.44	31.52	24.18	25.08	---	27.54	28.31	---	---	36.58	37.47
19	35.37	34.44	31.38	24.28	25.22	---	27.68	28.38	---	---	36.69	37.61
20	35.34	34.44	31.37	24.53	25.23	---	27.81	28.30	---	---	36.83	37.73
21	35.36	34.40	---	24.89	25.33	---	27.82	28.36	---	---	36.85	37.77
22	35.30	34.10	31.27	25.17	25.34	---	27.69	28.40	---	---	36.82	37.87
23	35.26	33.97	31.05	25.29	25.36	26.05	27.58	28.55	---	---	36.84	37.99
24	35.28	33.96	30.84	25.29	25.39	25.98	26.75	28.64	---	---	36.86	38.00
25	35.30	33.89	30.59	25.29	25.41	25.97	26.04	28.65	---	---	36.89	38.00
26	35.30	33.62	30.41	25.47	25.55	25.92	25.99	28.78	---	---	36.99	37.74
27	35.29	33.34	30.27	25.58	25.55	25.68	25.99	28.84	---	---	37.08	37.57
28	35.30	33.29	30.26	25.59	25.50	25.60	26.12	28.90	---	35.24	37.09	37.17
29	35.52	33.28	30.27	25.56	---	25.48	26.30	28.97	---	35.24	37.18	37.15
30	35.60	33.19	30.27	25.60	---	25.79	26.49	28.98	---	35.24	37.20	37.15
31	35.60	---	30.24	25.63	---	26.08	---	29.21	---	35.27	37.20	---
MAX	36.10	35.58	33.15	30.00	25.70	26.08	27.82	29.21	31.26	35.27	37.20	38.00
CAL YR 2004	LOW 36.21											
WTR YR 2005	LOW 38.00											



394533084113800. Local Number, MT-6

LOCATION.—Latitude 39°45'33", longitude 84°11'38", Montgomery County, Hydrologic Unit 05080002, 3rd and Ludlow Street, Dayton, Ohio. Owner: City of Dayton

AQUIFER.—Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 60 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 740 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 13.00 ft below land-surface datum.

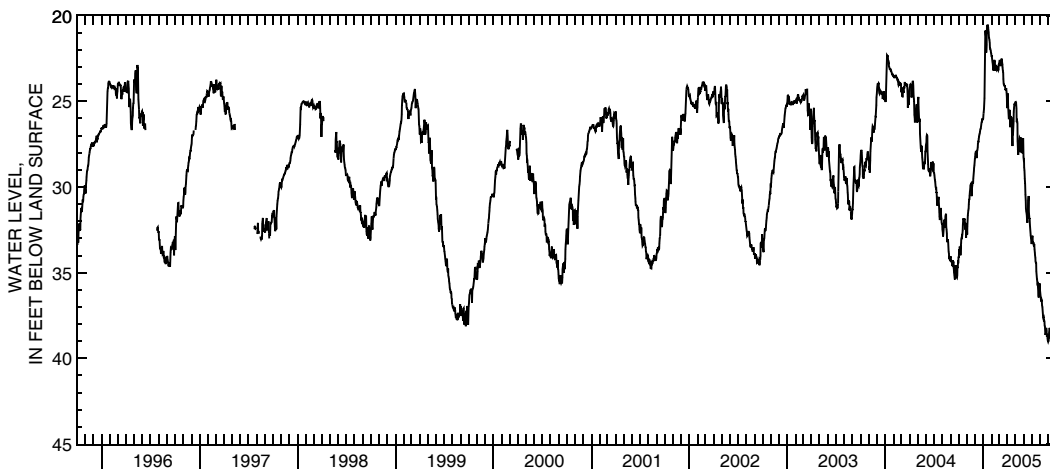
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—February 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 60.20 ft below land-surface datum, Oct. 2, 1970; minimum daily low, 20.54 ft below land-surface datum, Jan. 16, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.07	32.31	28.38	26.00	22.37	22.83	24.92	25.05	28.35	33.23	36.02	39.00
2	34.11	32.78	28.25	25.73	22.37	22.74	24.63	25.04	28.31	33.05	36.21	38.97
3	33.63	32.30	28.08	25.65	22.47	22.64	24.54	25.10	28.86	32.88	36.39	38.73
4	33.95	31.90	27.98	25.44	22.71	22.64	25.31	25.14	29.06	32.85	36.48	38.48
5	33.48	31.65	27.90	24.83	22.83	22.74	25.63	25.43	29.51	33.20	36.69	38.22
6	33.59	31.37	28.05	23.78	22.98	22.83	26.00	26.22	29.82	33.28	36.59	38.32
7	33.56	31.28	28.31	22.41	23.16	22.94	26.00	26.16	30.45	33.24	36.63	38.45
8	33.99	31.02	28.11	21.11	23.22	22.79	25.56	26.28	30.80	33.41	36.92	38.60
9	33.48	30.74	27.90	20.88	23.04	22.72	25.50	27.32	31.25	33.42	37.02	38.76
10	33.27	30.71	27.83	21.09	22.76	22.50	25.68	27.80	31.44	33.33	37.14	38.75
11	33.02	30.51	27.69	21.29	22.58	22.58	26.51	28.13	31.53	33.65	37.38	38.67
12	32.96	30.27	27.50	22.16	22.65	22.72	25.86	27.53	31.59	33.85	37.52	38.81
13	32.90	30.11	27.35	21.71	22.68	22.86	25.93	27.78	31.90	33.98	37.63	39.10
14	32.91	29.94	27.35	21.06	22.92	23.03	25.88	27.75	32.09	34.13	37.60	39.38
15	32.75	29.85	27.21	20.63	23.21	23.22	25.97	27.26	31.73	34.34	37.78	39.56
16	32.53	29.81	27.09	20.54	23.10	23.34	25.97	27.15	31.65	34.41	37.78	39.74
17	32.22	29.88	27.00	20.57	22.97	23.70	26.07	27.20	31.55	34.44	37.86	39.38
18	31.93	30.54	26.91	20.57	22.89	24.00	27.03	27.50	30.78	34.91	38.09	39.15
19	31.83	30.42	26.85	20.70	23.01	24.02	27.36	27.98	30.53	35.13	38.16	39.15
20	31.90	30.08	26.78	20.82	22.94	24.08	27.62	27.78	31.35	35.37	38.53	39.45
21	31.93	29.90	26.64	20.97	23.16	24.09	26.94	27.51	31.65	35.43	38.64	39.45
22	31.89	29.70	26.61	21.30	23.13	24.14	26.97	27.12	31.85	35.66	38.53	39.66
23	31.88	29.78	26.58	21.32	23.13	24.09	26.64	27.72	31.82	35.64	38.49	39.81
24	31.89	29.76	26.42	21.44	23.06	24.30	26.19	27.18	32.22	35.84	38.22	39.75
25	32.45	29.52	26.28	21.59	23.13	24.30	25.63	27.27	32.46	36.15	38.40	39.95
26	32.45	29.30	26.22	21.89	23.19	24.36	25.35	27.56	32.60	36.41	38.73	39.96
27	32.10	29.07	26.19	21.95	23.12	24.29	25.17	28.04	32.84	36.41	38.67	39.20
28	32.18	28.90	26.07	21.96	22.86	24.24	25.13	27.32	33.00	35.96	38.58	39.18
29	32.97	28.73	26.00	22.05	---	24.47	25.22	27.21	33.07	35.97	38.85	38.68
30	32.64	28.50	26.08	22.17	---	24.78	25.10	27.21	33.33	35.81	38.96	38.24
31	32.43	---	26.07	22.22	---	25.40	---	28.25	---	35.64	39.03	---
MAX	34.11	32.78	28.38	26.00	23.22	25.40	27.62	28.25	33.33	36.41	39.03	39.96
CAL YR 2004		LOW 35.40										
WTR YR 2005		LOW 39.96										



394811084095000. Local Number, MT-74

LOCATION.—Latitude 39°48'11", longitude 84°09'50", Montgomery County, Hydrologic Unit 05080002, in Dayton, Ohio. Owner: City of Dayton.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 8 in., depth 100 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 750 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.0 ft above land-surface datum.

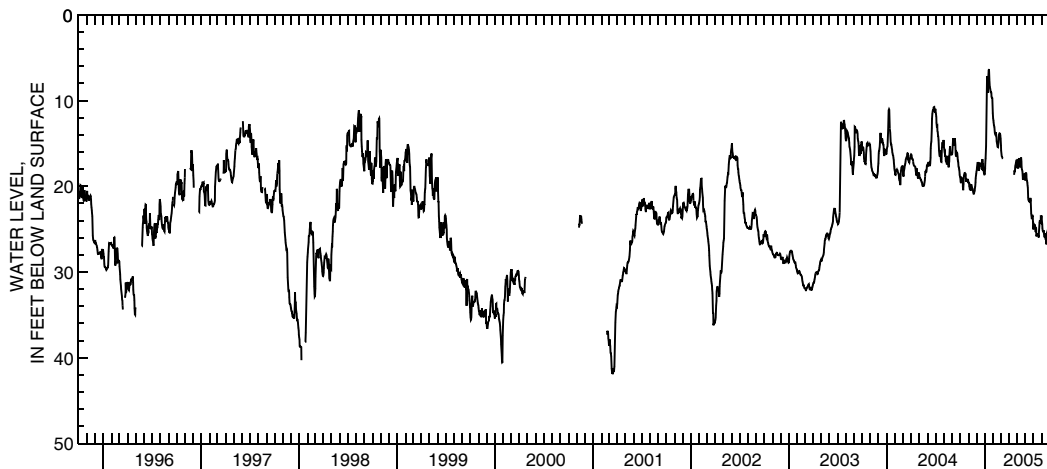
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—April 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 60.50 ft below land-surface datum, Oct. 31 and Nov. 1, 1991; minimum daily low, 6.33 ft below land-surface datum, Jan. 16, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.93	19.65	18.21	18.53	12.09	14.43	---	17.65	19.31	25.02	23.57	25.29
2	19.14	19.50	18.09	17.95	12.33	15.18	---	17.20	18.86	24.86	24.06	25.04
3	19.55	19.62	17.82	17.31	12.54	15.83	---	16.81	18.54	24.57	24.42	24.74
4	19.64	19.92	17.50	16.75	12.85	16.17	---	17.58	18.40	24.47	24.87	24.53
5	19.14	20.06	17.19	15.32	13.11	16.52	---	17.93	18.61	24.56	25.20	24.47
6	19.02	19.95	17.27	12.48	13.34	16.56	---	17.81	19.14	24.59	25.31	24.48
7	19.08	20.15	17.33	9.69	13.82	16.70	---	17.01	19.38	24.59	25.25	24.95
8	19.15	20.42	18.20	7.77	13.92	16.68	---	16.71	19.62	24.99	25.14	25.13
9	19.19	20.52	18.11	7.19	13.86	---	---	16.97	19.86	25.35	25.43	24.66
10	19.19	19.92	17.76	7.73	13.68	---	---	17.22	20.16	25.08	25.58	24.22
11	20.03	19.77	17.47	8.01	14.12	---	---	17.37	21.29	25.02	25.86	24.08
12	20.45	19.90	17.34	9.09	13.95	---	---	17.54	21.53	25.85	25.97	24.05
13	19.74	20.03	17.34	8.97	14.24	---	---	17.69	21.65	25.76	25.47	23.85
14	19.11	20.15	17.39	7.22	14.75	---	---	17.65	21.68	25.46	25.95	23.70
15	18.70	20.27	17.28	6.53	14.96	---	---	16.94	21.72	25.63	26.18	23.70
16	18.61	20.37	17.45	6.33	15.18	---	---	16.65	21.68	25.70	26.21	23.66
17	18.48	20.49	17.58	6.65	15.30	---	---	17.07	21.54	25.70	26.24	23.47
18	18.45	20.60	17.67	7.67	15.42	---	---	17.76	21.95	25.58	26.68	23.13
19	18.54	20.73	17.91	8.37	15.45	---	---	18.03	21.69	25.74	26.78	22.85
20	18.72	20.85	17.97	8.45	15.15	---	18.66	18.14	21.35	25.92	25.85	22.80
21	18.69	20.85	18.00	8.63	14.88	---	18.35	18.22	21.68	25.98	25.50	22.72
22	18.97	20.81	17.09	8.88	14.24	---	18.14	18.78	22.67	25.19	25.33	22.62
23	19.47	20.63	16.83	9.01	13.95	---	18.35	19.19	23.19	24.62	25.40	22.52
24	19.13	20.51	17.37	9.03	13.82	---	17.78	18.84	23.51	24.26	25.32	22.49
25	19.25	20.25	17.43	9.12	13.82	---	17.55	19.25	23.82	23.99	25.43	22.29
26	19.28	20.04	17.75	9.53	13.92	---	17.45	18.95	23.67	24.09	25.43	22.02
27	19.34	19.55	18.06	9.66	13.92	---	17.22	18.65	23.34	24.22	25.02	22.49
28	19.31	19.04	18.36	9.67	14.07	---	17.25	19.13	23.51	24.26	24.83	22.58
29	19.15	18.75	18.48	9.72	---	---	17.88	18.74	23.55	23.70	25.32	21.86
30	19.36	18.47	18.63	10.92	---	---	17.78	18.45	24.80	23.75	25.40	21.95
31	19.29	---	18.63	11.45	---	---	---	19.02	---	23.40	25.41	---
MAX	20.45	20.85	18.63	18.53	15.45	16.70	18.66	19.25	24.80	25.98	26.78	25.29
CAL YR 2004	LOW 20.85											
WTR YR 2005	LOW 26.78											



Ground-Water Records—Muskingum County

395804081593200. Local Number, MU-1A

LOCATION.—Latitude 39°58'04", longitude 81°59'32", Muskingum County, Hydrologic Unit 05040004, 2.2 mi northeast of the "Y" bridge in Zanesville, Ohio.
 Owner: City of Zanesville.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 109 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 700 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.48 ft above land-surface datum.

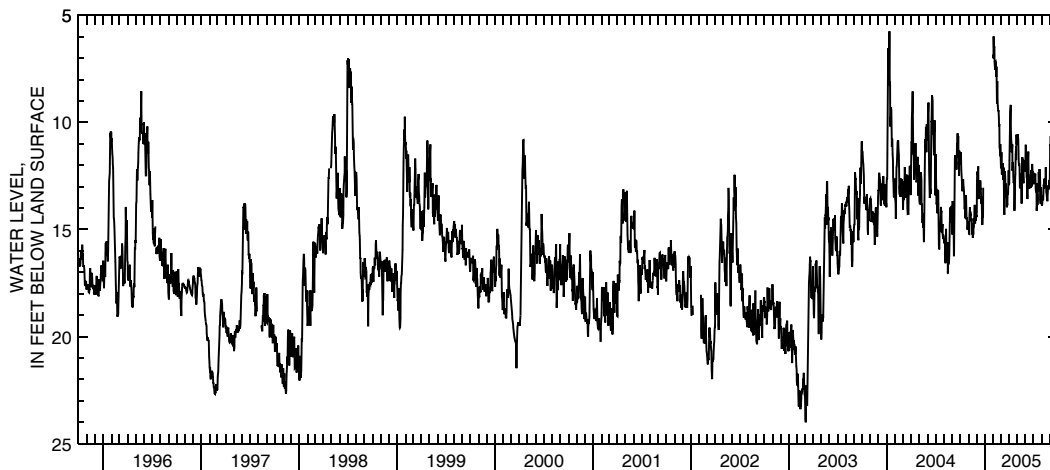
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. Water level affected by nearby wells and by stage of the Muskingum River. Prior to water year 1978, well depth reported as 132 ft.

PERIOD OF RECORD.—June 1952 to current year. This well replaced Mu-1, which has continuous record from May 1942 to June 1952.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 37.25 ft below land-surface datum, Aug. 1 and 2, 1954; minimum daily low, 5.75 ft below land-surface datum, Jan. 11, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.69	14.82	14.42	---	6.84	11.55	12.89	10.82	12.20	12.89	13.80	12.02
2	11.57	15.00	14.18	---	7.01	12.14	12.87	11.00	11.21	12.84	13.89	11.03
3	11.57	15.20	12.77	---	5.99	12.03	11.79	11.04	11.04	12.36	13.82	11.10
4	11.39	15.21	12.30	---	6.54	11.39	11.27	10.56	11.40	12.80	13.65	10.64
5	12.21	14.39	12.41	---	6.45	12.39	10.23	10.68	12.21	12.54	13.56	11.85
6	12.45	13.97	12.47	---	7.16	12.45	9.51	10.77	12.54	12.62	13.64	11.82
7	12.74	14.37	12.06	---	7.43	12.35	9.18	11.84	12.67	12.49	13.44	11.91
8	12.77	14.30	13.37	---	7.55	12.41	10.29	12.02	13.58	12.40	12.90	12.09
9	13.22	14.28	13.59	---	7.19	11.90	10.80	11.90	13.55	13.05	13.00	11.79
10	13.02	14.58	12.80	---	7.17	12.27	11.00	12.06	11.91	13.19	13.08	11.25
11	12.77	14.61	12.95	---	7.23	12.69	11.39	13.00	11.52	13.27	12.63	12.50
12	12.66	14.48	12.80	---	7.89	12.12	11.33	13.08	11.37	12.84	12.89	12.59
13	12.98	14.70	13.05	---	7.40	12.96	11.03	12.83	12.45	14.13	12.89	13.11
14	13.04	15.23	13.05	---	8.49	14.26	12.26	12.38	12.67	13.90	12.81	13.26
15	13.23	14.73	12.72	---	9.14	14.31	11.85	13.00	13.07	13.35	12.81	12.84
16	13.58	15.03	13.13	---	8.07	12.36	12.09	12.60	13.07	13.86	12.09	13.25
17	13.97	15.40	13.13	---	8.70	12.27	12.50	13.07	12.78	13.59	12.75	13.35
18	13.95	15.09	13.44	---	9.18	12.57	12.83	13.79	12.60	12.87	13.25	13.67
19	14.21	15.24	13.79	---	9.39	13.47	12.77	12.02	12.74	13.25	13.31	13.85
20	14.48	14.91	13.46	---	9.48	13.49	12.87	11.85	12.53	12.85	13.51	13.90
21	13.98	14.85	13.94	---	9.44	12.87	14.13	11.63	12.41	12.32	13.49	14.12
22	13.40	14.54	14.76	---	9.78	13.64	14.09	12.15	13.05	12.83	13.68	14.21
23	13.49	14.54	14.79	---	10.22	13.97	13.10	12.26	12.24	12.27	13.41	14.40
24	14.26	13.85	14.42	---	10.08	13.94	12.53	12.51	13.00	12.18	13.25	14.18
25	14.54	14.69	14.42	---	11.16	13.74	12.41	12.85	12.26	12.35	12.95	14.16
26	14.43	14.69	13.05	---	11.22	13.88	11.52	12.00	11.99	12.69	13.02	14.15
27	14.61	14.06	---	---	11.58	13.26	11.13	11.82	11.99	13.62	13.13	14.24
28	15.01	14.31	---	---	11.01	13.37	11.76	11.84	12.41	13.80	13.08	15.32
29	14.96	14.58	---	---	---	13.25	10.58	11.87	12.29	13.23	12.69	15.20
30	14.61	14.33	---	---	---	12.56	11.03	12.06	12.69	13.02	12.90	13.90
31	14.76	---	---	---	---	12.24	---	12.29	---	13.40	12.78	---
MAX	15.01	15.40	14.79	---	11.58	14.31	14.13	13.79	13.58	14.13	13.89	15.32
CAL YR 2004	LOW 17.06											
WTR YR 2005	LOW 15.40											



Ground-Water Records—Pickaway County

393327082571600. Local Number, PK-7

LOCATION.—Latitude 39°33'27", longitude 82°57'16", Pickaway County, Hydrologic Unit 05060002, 3.1 mi south of Circleville, Ohio. Owner: State of Ohio.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 6 in., depth drilled 172 ft, present depth 169 ft, cased to 164 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 705 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

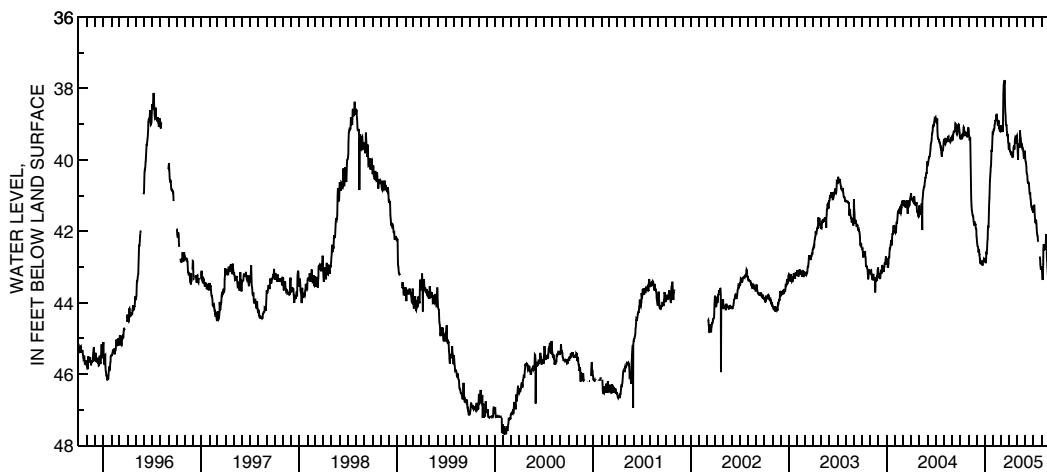
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—July 1972 to October 1982 continuous, November 1982 to April 1985 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 54.80 ft below land-surface datum, Sept. 15, 1977; minimum daily low, 37.79 ft below land-surface datum, Mar. 15-16, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.39	39.12	42.14	42.78	39.24	39.06	39.71	39.32	40.00	41.46	43.04	43.53
2	39.41	39.18	42.21	42.81	39.22	39.19	39.53	39.44	40.05	41.45	43.09	43.57
3	39.41	39.35	42.29	42.83	39.16	39.19	39.63	39.60	40.06	41.33	43.19	43.57
4	39.33	39.33	42.36	42.90	39.16	39.13	39.73	39.70	40.11	41.26	43.31	43.46
5	39.38	39.42	42.44	42.85	39.12	39.15	39.77	40.00	40.20	41.29	43.37	43.49
6	39.40	39.41	42.42	42.62	39.03	39.15	39.78	39.67	40.34	41.53	42.93	43.54
7	39.40	39.38	42.49	42.63	38.99	39.05	39.78	39.62	40.42	41.65	42.50	43.63
8	39.35	40.11	42.60	42.58	38.91	39.21	39.85	39.58	40.45	41.76	42.37	43.66
9	39.27	40.55	42.58	42.53	38.91	39.22	39.85	39.58	40.56	41.77	42.42	43.76
10	39.31	40.85	42.51	42.29	38.90	38.84	39.82	39.66	40.65	41.70	42.47	43.77
11	39.32	41.08	42.66	42.23	38.91	38.17	39.82	39.46	40.67	41.70	42.49	43.73
12	39.26	41.28	42.66	41.97	38.79	37.91	39.82	39.18	40.62	41.80	42.51	43.78
13	39.12	41.42	42.78	41.85	38.79	37.85	39.84	39.33	40.65	41.90	42.50	43.85
14	39.09	41.44	42.89	41.91	38.71	37.86	39.94	39.39	40.70	42.04	42.47	43.90
15	39.11	41.51	42.89	41.79	38.80	37.79	39.89	39.42	40.76	42.09	42.47	43.96
16	39.19	41.55	42.85	41.47	38.87	37.79	39.88	39.51	40.89	42.12	42.31	44.00
17	39.32	41.57	42.86	41.24	38.92	38.36	39.77	39.56	40.95	42.16	42.15	44.03
18	39.32	41.58	42.83	41.07	39.02	38.66	39.63	39.60	40.95	42.28	42.09	44.06
19	39.28	41.62	42.89	40.78	39.02	38.75	39.61	39.58	40.92	42.30	42.45	44.07
20	39.29	41.73	42.94	40.60	39.00	38.92	39.64	39.59	41.07	---	42.72	44.09
21	39.30	41.78	42.91	40.44	38.90	39.02	39.71	39.69	41.11	---	42.80	44.09
22	39.28	41.77	42.94	40.31	39.08	39.04	39.66	39.68	41.24	---	42.98	44.10
23	39.26	41.78	42.95	40.21	39.11	39.04	39.44	39.66	41.29	---	43.15	44.24
24	39.22	41.77	42.95	40.17	39.12	39.22	39.40	39.75	41.34	---	43.22	44.26
25	39.28	41.82	42.86	39.84	39.16	39.23	39.38	39.84	41.36	42.71	43.27	43.86
26	39.34	41.82	42.83	39.72	39.19	39.33	39.39	39.91	41.35	42.79	43.30	43.44
27	39.36	41.79	42.83	39.78	39.20	39.34	39.51	39.97	41.40	42.93	43.30	43.36
28	39.36	41.90	42.81	39.75	39.04	39.28	39.55	39.91	41.41	43.01	43.37	43.29
29	39.31	41.94	42.77	39.49	---	39.51	39.53	39.77	41.44	43.06	43.38	43.24
30	39.12	41.96	42.78	39.23	---	39.53	39.33	39.75	41.48	43.06	43.38	43.65
31	39.12	---	42.78	39.21	---	39.68	---	39.89	---	43.00	43.52	---
MAX	39.41	41.96	42.95	42.90	39.24	39.68	39.94	40.00	41.48	43.06	43.52	44.26
CAL YR 2004	LOW 43.01											
WTR YR 2005	LOW 44.26											



393402082572500. Local Number, PK-4

LOCATION.—Latitude 39°34'02", longitude 82°57'25", Pickaway County, Hydrologic Unit 05060002, 2 mi south of Circleville, Ohio. Owner: E.I. DuPont DeNemours.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 136 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 707 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

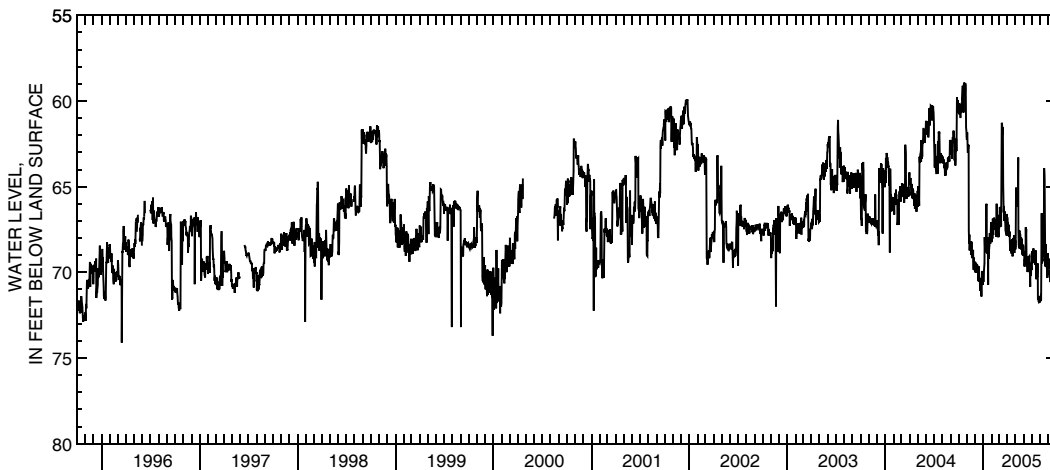
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—January 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 80.15 ft below land-surface datum, Nov. 3, 1972; minimum daily low, 47.40 ft below land-surface datum, Feb. 25, 1960.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.69	62.28	69.86	70.04	67.35	67.44	66.80	68.67	68.87	69.05	71.48	69.80
2	60.33	61.83	69.84	70.55	68.24	67.38	67.13	68.49	68.79	69.05	71.42	69.19
3	60.78	61.97	69.68	70.52	67.83	66.74	67.10	65.25	68.88	68.76	71.49	70.14
4	60.19	62.84	70.04	69.88	68.04	66.19	67.88	65.06	69.66	69.36	71.63	69.88
5	60.18	63.02	69.45	69.48	66.87	67.07	67.23	65.63	69.24	69.47	71.60	70.10
6	60.66	62.63	69.57	67.95	67.44	66.71	67.27	65.43	69.52	69.15	66.63	70.32
7	60.84	62.55	69.77	68.57	67.83	66.54	67.92	65.40	69.47	68.61	66.54	70.33
8	60.99	67.55	69.68	68.08	67.16	67.32	67.89	66.13	67.37	69.45	69.48	70.58
9	60.30	68.31	69.58	68.02	67.32	66.00	67.62	66.15	67.94	69.38	69.29	70.52
10	60.70	67.80	69.60	68.21	67.41	62.18	68.37	65.54	67.49	69.09	69.30	70.02
11	60.57	68.72	69.96	68.83	66.81	61.28	68.73	63.30	69.35	69.38	69.30	70.65
12	60.25	68.18	69.87	66.09	67.39	61.35	68.43	67.53	69.66	68.91	68.93	70.62
13	60.32	68.40	70.52	66.00	67.43	61.91	68.14	68.37	69.36	69.56	68.83	70.63
14	59.89	68.25	69.64	68.55	67.53	61.91	68.76	68.60	69.71	69.42	69.08	70.95
15	59.57	68.70	69.94	68.33	66.92	61.52	68.25	67.83	69.99	69.03	68.16	70.11
16	59.12	68.22	69.77	68.41	67.07	64.89	68.91	67.56	69.69	68.72	63.92	70.98
17	59.93	68.97	70.49	68.93	66.99	65.30	68.12	68.61	69.51	69.77	64.31	70.39
18	59.40	68.21	70.55	68.60	67.92	66.51	68.46	67.74	69.06	70.41	64.69	70.69
19	60.68	68.82	70.32	70.72	66.93	66.13	68.08	67.80	69.19	69.49	68.07	70.49
20	59.12	69.17	71.07	67.94	66.00	66.99	69.08	68.14	69.18	69.99	69.66	70.27
21	58.97	69.05	70.47	68.59	67.10	66.44	68.96	68.66	69.09	70.29	69.03	70.20
22	58.97	69.02	70.67	69.19	67.56	66.51	68.07	67.97	69.06	69.48	68.37	70.27
23	58.97	69.11	70.83	68.67	67.38	66.92	68.04	68.67	69.81	69.54	69.60	70.39
24	59.07	68.69	70.77	68.44	67.95	67.10	68.52	68.04	70.07	71.57	69.00	70.52
25	59.74	69.36	71.42	67.72	67.33	67.53	68.48	68.44	70.85	71.58	69.45	65.69
26	58.97	69.86	70.83	68.10	67.10	67.62	67.83	68.37	69.52	71.42	69.77	65.52
27	59.09	69.15	69.98	68.33	67.95	67.76	68.88	68.97	69.81	71.74	69.11	65.57
28	59.29	69.88	69.93	68.30	66.66	66.92	68.52	68.38	70.22	71.63	70.32	64.88
29	61.56	69.35	70.55	67.63	---	67.86	68.70	69.03	69.44	71.74	69.35	65.38
30	61.73	69.66	70.74	67.10	---	66.60	68.14	68.44	69.88	71.72	68.88	68.88
31	62.06	---	70.16	67.47	---	67.77	---	68.87	---	71.60	69.74	---
MAX	62.06	69.88	71.42	70.72	68.24	67.86	69.08	69.03	70.85	71.74	71.63	70.98
CAL YR 2004	LOW 71.42											
WTR YR 2005	LOW 71.74											



393637082572200. Local Number, PK-6A

LOCATION.—Latitude 39°36'37", longitude 82°57'22", Pickaway County, Hydrologic Unit 05060002, at Circleville, Ohio. Owner: City of Circleville.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 110 ft, cased to 105 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 670 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 10.00 ft above land-surface datum.

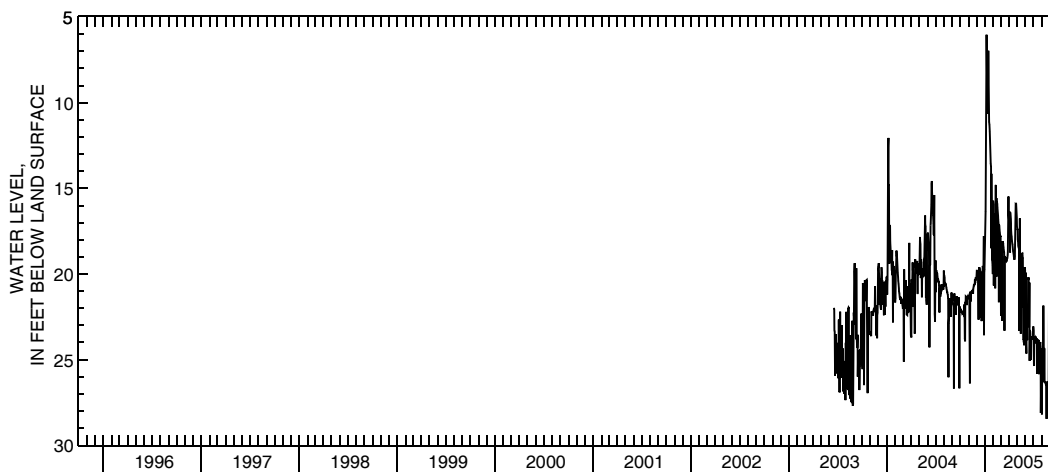
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—June 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 28.46 ft below land-surface datum, Aug. 19, 2005; minimum daily low, 6.04 ft below land-surface datum, Jan. 7, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.04	21.36	20.18	19.11	15.72	17.77	16.85	17.21	22.49	23.07	26.23	25.21
2	22.09	21.40	19.81	17.61	15.94	22.43	17.01	17.40	19.92	23.32	28.20	20.93
3	22.04	21.39	19.81	17.09	20.62	22.21	16.35	17.41	19.99	25.24	24.37	21.22
4	22.15	21.29	19.89	16.36	20.69	18.10	16.67	17.99	24.10	25.37	24.39	21.33
5	22.20	23.77	19.87	12.16	16.48	18.24	18.75	18.11	24.65	23.66	24.32	19.32
6	22.22	26.39	20.06	9.75	16.63	18.26	16.41	18.36	23.39	24.06	26.29	19.41
7	22.23	21.09	20.05	6.04	16.75	22.74	16.80	18.47	22.94	23.92	21.85	21.53
8	22.27	21.04	22.67	7.45	20.84	18.09	17.00	18.57	23.87	23.63	26.12	23.95
9	22.23	21.61	20.02	9.37	19.49	18.12	17.54	23.31	22.87	23.89	26.19	21.70
10	22.28	21.10	19.81	10.43	14.83	18.23	17.79	18.70	22.89	23.75	24.32	21.76
11	22.27	21.14	19.60	10.65	14.81	18.37	17.84	16.76	20.21	23.79	24.39	21.77
12	22.33	21.11	19.70	10.48	19.32	18.50	18.07	18.92	20.32	23.99	26.36	25.83
13	22.37	20.99	19.74	8.57	15.57	18.71	18.23	19.08	20.21	23.76	26.27	26.34
14	22.29	20.98	19.81	6.97	20.15	18.75	18.29	19.01	22.99	23.86	26.37	24.34
15	22.29	21.07	19.89	8.35	15.79	23.31	18.47	23.49	23.11	25.83	26.40	21.91
16	22.24	21.07	22.53	9.93	15.93	18.95	18.69	18.84	20.50	23.82	26.45	21.82
17	21.77	21.11	20.05	11.13	16.11	18.99	18.73	19.16	25.07	25.52	26.46	21.83
18	23.77	21.11	20.01	11.29	16.36	19.05	18.83	21.94	23.33	25.73	26.46	21.91
19	23.93	20.86	20.13	11.69	16.60	19.09	19.01	19.37	23.36	23.85	28.46	24.13
20	21.63	20.76	22.75	12.21	16.83	19.15	18.94	18.81	23.50	23.91	26.29	19.78
21	21.75	20.61	20.27	12.85	17.06	19.22	19.17	18.80	24.77	23.87	26.43	19.79
22	21.30	20.64	20.31	13.30	21.66	19.26	19.07	19.07	25.03	25.85	26.45	19.85
23	21.32	20.61	20.25	13.55	17.12	19.24	18.95	19.10	23.66	24.01	28.34	24.60
24	21.75	20.61	19.53	13.73	17.19	19.17	18.06	23.79	23.73	24.08	26.53	22.13
25	21.30	20.32	19.63	18.50	17.40	19.12	16.81	23.82	23.73	24.10	26.59	21.61
26	21.82	20.53	19.71	14.16	17.59	19.08	15.93	23.99	23.74	24.05	26.59	21.43
27	21.29	20.37	19.84	18.45	17.75	18.89	15.95	24.05	23.64	23.97	26.56	25.69
28	21.34	20.21	17.79	19.14	17.83	18.72	15.94	24.16	23.82	24.23	24.29	21.04
29	21.32	20.31	23.58	19.21	---	16.64	16.33	19.69	23.69	28.11	20.03	23.74
30	21.28	20.30	19.86	19.49	---	15.49	16.69	19.61	23.69	26.13	21.99	25.63
31	21.30	---	19.75	20.01	---	16.54	---	19.79	---	26.14	21.74	---
MAX	23.93	26.39	23.58	20.01	21.66	23.31	19.17	24.16	25.07	28.11	28.46	26.34
CAL YR 2004	LOW 26.69											
WTR YR 2005	LOW 28.46											



394503082583800. Local Number, PK-10

LOCATION.—Latitude 39°45'03", longitude 82°58'38", Pickaway County, Hydrologic Unit 05060002, 3 mi north of Ashville, Ohio. Owner: City of Columbus.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 108 ft, cased to 103 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 690 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

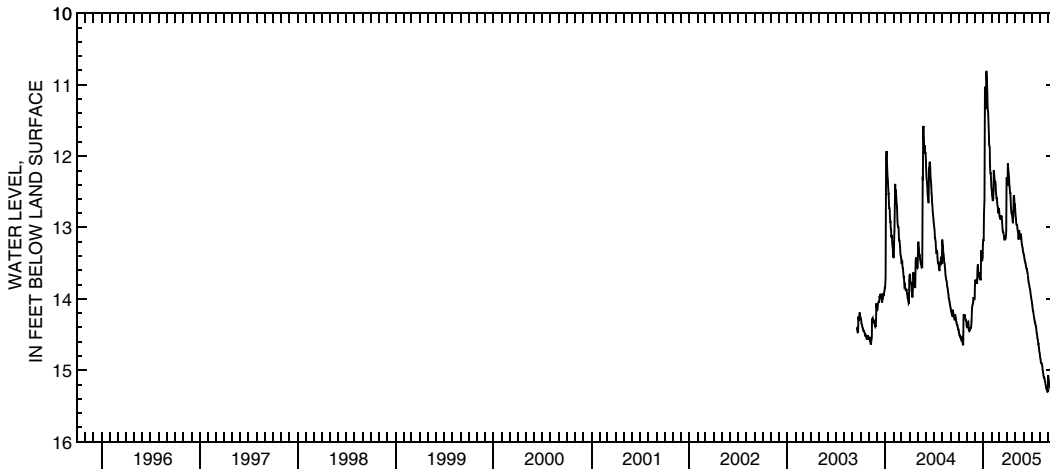
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—September 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 15.39 ft below land-surface datum, Sept. 24-25, 2005; minimum daily low, 10.82 ft below land-surface datum, Jan. 12-13, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.43	14.37	13.82	13.18	12.46	12.74	12.42	12.79	13.38	14.03	14.80	15.09
2	14.47	14.40	13.77	13.18	12.48	12.81	12.31	12.84	13.39	14.06	14.83	15.13
3	14.47	14.41	13.73	13.18	12.54	12.84	12.10	12.88	13.41	14.09	14.85	15.16
4	14.51	14.37	13.74	12.79	12.59	12.84	12.16	12.94	13.44	14.12	14.89	15.19
5	14.52	14.34	13.78	12.62	12.63	12.88	12.21	12.96	13.46	14.15	14.90	15.21
6	14.53	14.33	13.76	11.40	12.62	12.88	12.27	12.96	13.48	14.18	14.90	15.22
7	14.54	14.40	13.75	11.03	12.60	12.85	12.31	12.97	13.50	14.20	14.91	15.23
8	14.53	14.44	13.79	11.15	12.47	12.83	12.39	13.02	13.52	14.23	14.93	15.23
9	14.54	14.45	13.78	11.18	12.20	12.85	12.43	13.03	13.54	14.26	14.95	15.27
10	14.56	14.44	13.58	11.33	12.24	12.85	12.48	13.06	13.56	14.28	14.99	15.29
11	14.57	14.44	13.53	11.34	12.27	12.86	12.52	13.10	13.58	14.30	15.01	15.29
12	14.56	14.43	13.53	10.82	12.32	12.91	12.52	13.16	13.58	14.33	15.03	15.30
13	14.55	14.41	13.62	10.82	12.38	12.99	12.63	13.16	13.60	14.33	15.06	15.31
14	14.57	14.41	13.66	10.89	12.36	13.03	12.70	13.09	13.62	14.35	15.09	15.32
15	14.59	14.41	13.67	11.01	12.36	13.06	12.76	13.04	13.64	14.37	15.10	15.34
16	14.62	14.39	13.66	11.13	12.41	13.07	12.80	13.09	13.67	14.38	15.10	15.35
17	14.64	14.38	13.64	11.26	12.48	13.07	12.80	13.12	13.69	14.40	15.11	15.35
18	14.64	14.32	13.64	11.36	12.53	13.10	12.82	13.15	13.74	14.43	15.13	15.36
19	14.27	14.25	13.72	11.39	12.59	13.12	12.85	13.15	13.76	14.47	15.16	15.36
20	14.22	14.14	13.72	11.48	12.59	13.15	12.88	13.09	13.79	14.49	15.17	15.37
21	14.24	14.10	13.72	11.60	12.61	13.17	12.93	13.13	13.80	14.51	15.19	15.37
22	14.26	14.09	13.74	11.72	12.66	13.17	12.93	13.12	13.82	14.55	15.21	15.37
23	14.26	14.07	13.70	11.85	12.69	13.12	12.84	13.14	13.85	14.57	15.24	15.39
24	14.22	14.06	13.38	11.86	12.71	13.16	12.62	13.20	13.86	14.58	15.26	15.39
25	14.26	13.99	13.32	11.88	12.73	13.16	12.56	13.24	13.88	14.63	15.27	15.38
26	14.27	13.99	13.42	12.09	12.79	13.13	12.56	13.25	13.91	14.63	15.27	15.36
27	14.30	13.98	13.46	12.21	12.80	13.10	12.64	13.28	13.94	14.67	15.27	15.34
28	14.30	14.01	13.46	12.24	12.74	13.04	12.68	13.29	13.97	14.69	15.30	15.33
29	14.30	14.01	13.44	12.24	---	12.31	12.68	13.33	13.99	14.73	15.30	15.37
30	14.31	13.99	13.42	12.32	---	12.31	12.74	13.35	14.01	14.75	15.29	15.36
31	14.37	---	13.24	12.38	---	12.38	---	13.36	---	14.77	15.07	---
MAX	14.64	14.45	13.82	13.18	12.80	13.17	12.93	13.36	14.01	14.77	15.30	15.39
CAL YR 2004	LOW 14.64											
WTR YR 2005	LOW 15.39											



394503082583801. Local Number, PK-11

LOCATION.—Latitude 39°45'03", longitude 82°58'38", Pickaway County, Hydrologic Unit 05060002, 3 mi north of Ashville, Ohio. Owner: City of Columbus.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 39.5 ft, cased to 34.5 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 690 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

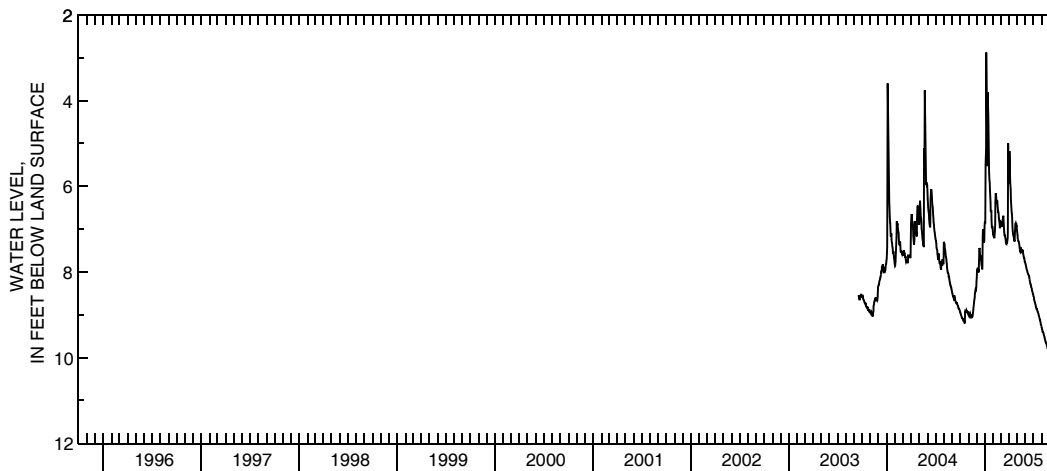
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—September 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 10.12 ft below land-surface datum, Sept. 30, 2005; minimum daily low, 2.88 ft below land-surface datum, Jan. 6, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.93	9.01	8.23	6.83	7.12	6.83	5.93	7.03	7.80	8.54	9.30	9.75
2	8.96	9.02	8.12	6.85	7.13	6.88	5.76	7.09	7.82	8.58	9.32	9.80
3	8.98	9.03	8.00	6.85	7.16	6.92	5.18	7.16	7.84	8.60	9.35	9.83
4	9.01	8.99	7.96	5.49	7.19	6.87	5.51	7.24	7.87	8.64	9.37	9.86
5	9.03	8.98	7.97	5.12	7.21	6.93	5.74	7.26	7.90	8.67	9.40	9.89
6	9.05	8.96	7.93	2.88	7.13	6.93	5.92	7.28	7.94	8.70	9.41	9.90
7	9.07	9.00	7.94	4.23	7.06	6.85	6.08	7.29	7.97	8.72	9.43	9.91
8	9.07	9.04	8.01	4.80	6.89	6.77	6.30	7.33	7.99	8.76	9.45	9.91
9	9.08	9.06	7.98	5.05	6.39	6.78	6.41	7.35	8.02	8.78	9.48	9.92
10	9.11	9.05	7.69	5.49	6.18	6.71	6.55	7.40	8.04	8.82	9.50	9.94
11	9.12	9.04	7.48	5.53	6.18	6.69	6.62	7.48	8.05	8.83	9.52	9.96
12	9.11	9.03	7.44	3.80	6.24	6.81	6.65	7.52	8.06	8.86	9.54	9.96
13	9.08	9.05	7.53	4.24	6.34	6.97	6.84	7.53	8.08	8.86	9.58	9.97
14	9.11	9.06	7.65	4.32	6.38	7.06	6.95	7.46	8.09	8.88	9.60	9.99
15	9.13	9.05	7.68	4.93	6.38	7.14	7.06	7.43	8.11	8.90	9.63	10.00
16	9.15	9.02	7.67	5.37	6.34	7.14	7.12	7.49	8.14	8.92	9.64	10.02
17	9.19	8.98	7.72	5.70	6.42	7.16	7.14	7.52	8.18	8.93	9.66	10.03
18	9.19	8.94	7.70	5.85	6.50	7.21	7.17	7.54	8.22	8.94	9.67	10.04
19	8.94	8.88	7.82	5.92	6.59	7.23	7.20	7.56	8.26	8.97	9.70	10.06
20	8.92	8.81	7.84	6.07	6.59	7.29	7.24	7.47	8.28	8.99	9.72	10.06
21	8.93	8.74	7.89	6.24	6.62	7.34	7.28	7.51	8.29	9.02	9.74	10.07
22	8.93	8.70	7.94	6.38	6.74	7.35	7.28	7.50	8.33	9.04	9.76	10.08
23	8.93	8.64	7.87	6.58	6.78	7.26	7.10	7.49	8.35	9.07	9.79	10.10
24	8.90	8.60	7.15	6.58	6.82	7.32	6.96	7.58	8.38	9.08	9.81	10.11
25	8.91	8.50	7.00	6.56	6.85	7.33	6.88	7.62	8.40	9.11	9.83	10.11
26	8.92	8.47	7.16	6.78	6.96	7.27	6.86	7.64	8.43	9.12	9.84	10.10
27	8.94	8.42	7.28	6.95	6.96	7.22	6.90	7.67	8.46	9.17	9.85	10.10
28	8.95	8.40	7.28	6.98	6.82	7.07	6.93	7.68	8.48	9.19	9.88	10.09
29	8.94	8.41	7.32	6.93	---	5.00	6.92	7.72	8.51	9.22	9.89	10.11
30	8.92	8.36	7.28	6.98	---	5.34	6.97	7.77	8.52	9.25	9.89	10.12
31	8.98	---	6.99	7.04	---	5.82	---	7.78	---	9.27	9.73	---
MAX	9.19	9.06	8.23	7.04	7.21	7.35	7.28	7.78	8.52	9.27	9.89	10.12
CAL YR 2004	LOW 9.19											
WTR YR 2005	LOW 10.12											



394742083094800. Local Number, PK-9

LOCATION.—Latitude 39°47'42", longitude 83°09'48", Pickaway County, Hydrologic Unit 05060002, at Pickaway Correctional Institute near Orient, Ohio.
 Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 8 in., depth 45 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 770 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

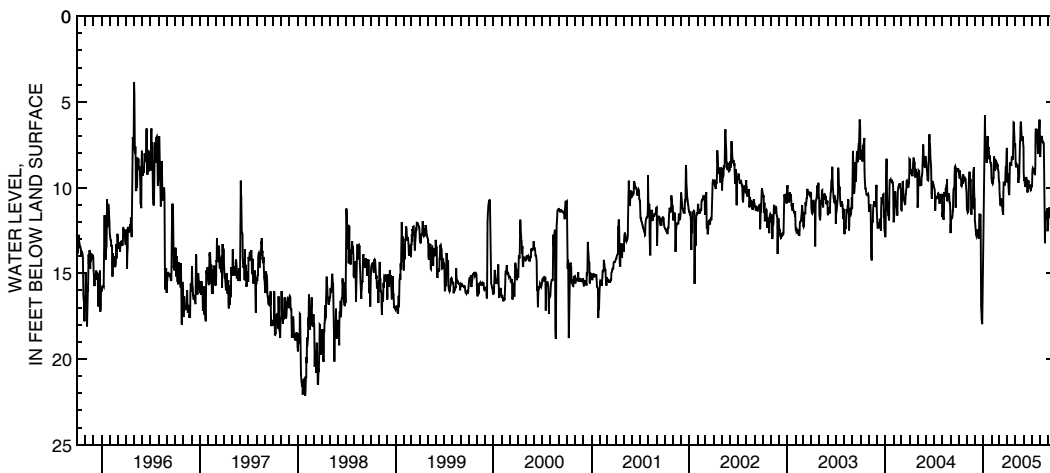
PERIOD OF RECORD.—September 1986 to current year.

REVISIONS.—Water levels published for the period July 2, 1993, to September 30, 1994, are in error. Depth to water surface values are 1 ft less than reported.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 26.10 ft below land-surface datum, Dec. 23, 1987; minimum daily low, 0.90 ft below land-surface datum, Mar. 17, 1991.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.00	11.27	11.97	12.59	9.45	9.62	9.59	7.92	9.14	9.91	8.12	11.78
2	9.14	11.34	12.08	10.98	9.57	9.69	9.71	8.56	9.41	9.98	8.21	11.45
3	9.14	11.37	12.24	10.59	9.67	10.20	9.41	8.81	9.62	9.18	7.49	11.52
4	9.33	11.45	12.44	9.86	9.76	10.55	9.16	8.73	9.53	8.96	7.40	11.16
5	9.48	11.43	12.71	8.73	9.69	10.92	9.87	8.66	9.74	8.87	7.25	11.49
6	9.01	11.37	12.80	7.69	9.80	11.03	10.25	8.63	9.91	8.92	7.05	11.76
7	9.33	11.15	12.87	5.79	9.45	11.04	10.40	8.67	9.96	8.97	6.98	11.64
8	9.36	9.65	12.81	7.25	9.44	10.62	10.44	8.72	9.81	8.87	7.16	11.66
9	9.49	9.42	12.84	7.51	8.67	10.71	9.45	8.74	9.56	9.08	7.23	11.64
10	9.54	9.12	12.65	8.15	8.19	10.79	8.59	8.84	9.38	9.15	7.31	11.28
11	9.89	9.08	12.45	8.27	8.34	10.94	8.54	9.44	9.47	9.18	7.32	11.60
12	9.91	9.49	12.56	7.28	8.63	10.97	8.61	9.72	9.53	9.23	7.36	11.70
13	9.81	9.67	12.72	8.31	8.92	11.22	8.63	9.39	9.59	9.23	7.36	11.63
14	9.60	9.48	12.89	8.56	9.01	11.36	8.51	9.49	9.91	8.66	7.40	12.74
15	9.53	9.66	12.92	7.40	8.94	11.48	8.73	9.38	10.29	6.87	7.51	12.92
16	9.76	10.82	12.98	7.29	8.88	11.58	8.48	8.36	9.66	6.56	10.08	12.17
17	9.67	11.49	11.92	6.99	8.41	10.28	8.33	7.53	9.59	6.94	11.04	12.84
18	9.23	11.58	11.52	7.28	8.43	9.74	8.17	7.29	9.69	6.66	11.96	12.72
19	9.38	11.19	11.61	7.65	8.59	9.76	8.21	7.14	9.67	6.57	13.25	11.00
20	9.48	11.04	11.70	7.73	8.55	9.78	8.25	6.51	9.81	6.92	12.02	10.34
21	9.53	11.12	11.55	7.64	8.66	9.74	8.36	6.15	9.90	7.40	11.40	12.26
22	9.60	11.13	11.64	7.88	8.72	9.83	8.16	6.35	9.95	7.49	11.72	12.56
23	9.57	11.15	15.21	8.25	8.64	9.83	7.28	6.69	9.95	7.89	11.66	12.57
24	9.66	9.60	16.94	8.34	8.76	9.67	6.20	6.98	9.99	8.04	11.69	11.45
25	9.56	9.11	17.25	8.12	8.91	9.18	6.21	7.20	10.01	7.51	11.60	9.86
26	9.48	8.96	17.60	8.24	9.00	8.76	6.59	7.13	10.05	7.22	11.49	11.30
27	9.51	8.81	17.86	8.51	9.09	8.85	7.04	7.28	10.14	7.01	11.22	11.48
28	9.75	10.05	17.97	8.55	9.48	8.73	7.46	7.13	10.11	6.50	11.31	11.69
29	9.93	10.62	16.86	8.56	---	7.92	7.61	7.02	9.99	6.39	12.54	12.03
30	10.23	10.68	15.30	8.66	---	7.69	7.43	7.50	9.80	6.03	12.35	12.39
31	10.28	---	13.88	8.73	---	8.15	---	7.64	---	6.44	12.21	---
MAX	10.28	11.58	17.97	12.59	9.80	11.58	10.44	9.72	10.29	9.98	13.25	12.92
CAL YR 2004	LOW 17.97											
WTR YR 2005	LOW 17.97											



Ground-Water Records—Pike County

390359083015100. Local Number, PI-2

LOCATION.—Latitude 39°03'59", longitude 83°01'51", Pike County, Hydrologic Unit 05060002, 1 mi west of Piketon, Ohio. Owner: Goodyear Atomic Corporation.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 60 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 550 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

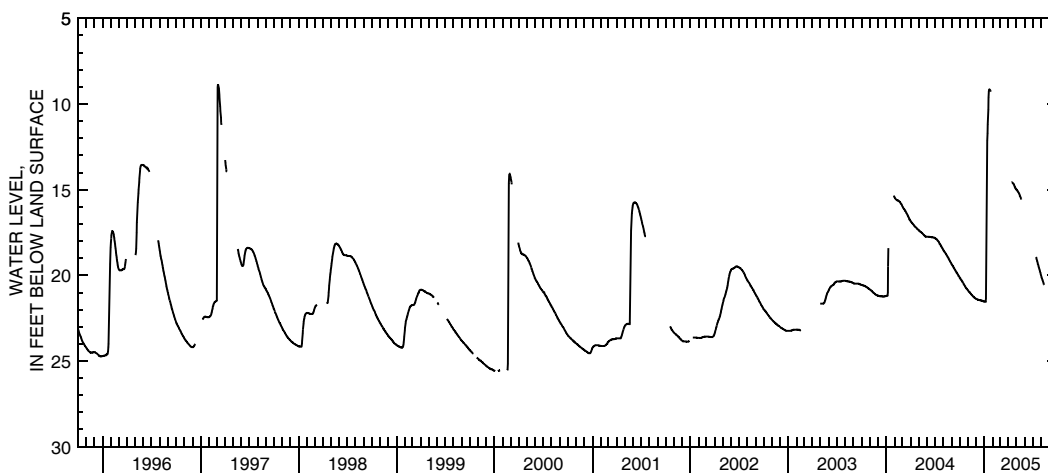
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—September 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 27.46 ft below land-surface datum, Feb. 15, 1977; minimum daily low, 8.85 ft below land-surface datum, Mar. 6, 1997.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.12	20.88	21.37	21.53	---	---	---	14.99	---	---	20.01	---
2	20.15	20.90	21.38	21.53	---	---	---	15.02	---	---	20.06	---
3	20.17	20.92	21.39	21.53	---	---	---	15.03	---	---	20.12	---
4	20.20	20.94	21.39	21.54	---	---	---	15.05	---	---	20.17	---
5	20.22	20.96	21.40	21.54	---	---	---	15.08	---	---	20.23	---
6	20.25	20.98	21.41	21.54	---	---	---	15.10	---	---	20.28	---
7	20.27	20.99	21.42	21.35	---	---	---	15.13	---	---	20.34	---
8	20.30	20.99	21.42	19.05	---	---	---	15.16	---	---	20.39	---
9	20.32	21.03	21.43	16.26	---	---	---	15.19	---	---	20.44	---
10	20.35	21.05	21.43	14.10	---	---	---	15.22	---	---	20.49	---
11	20.37	21.07	21.44	12.79	---	---	---	15.26	---	---	20.54	---
12	20.40	21.09	21.44	12.13	---	---	---	15.29	---	---	20.57	---
13	20.42	21.11	21.44	11.71	---	---	14.59	15.33	---	18.93	---	---
14	20.45	21.13	21.45	11.20	---	---	14.58	15.37	---	18.99	---	---
15	20.48	21.15	21.45	10.81	---	---	14.59	15.41	---	19.05	---	---
16	20.50	21.16	21.46	10.33	---	---	14.60	15.45	---	19.11	---	---
17	20.53	21.18	21.46	9.63	---	---	14.61	15.50	---	19.17	---	---
18	20.56	21.20	21.46	9.27	---	---	14.63	15.54	---	19.23	---	---
19	20.58	21.21	21.47	9.16	---	---	14.65	15.58	---	19.29	---	---
20	20.61	21.23	21.47	9.15	---	---	14.67	---	---	19.35	---	---
21	20.64	21.24	21.48	9.16	---	---	14.70	---	---	19.40	---	---
22	20.66	21.26	21.48	9.17	---	---	14.73	---	---	19.46	---	---
23	20.69	21.28	21.49	9.20	---	---	14.76	---	---	19.51	---	---
24	20.71	21.29	21.49	9.24	---	---	14.80	---	---	19.57	---	---
25	20.74	21.30	21.49	9.29	---	---	14.84	---	---	19.63	---	22.45
26	20.75	21.31	21.50	---	---	---	14.87	---	---	19.68	---	22.48
27	20.77	21.33	21.50	---	---	---	14.90	---	---	19.73	---	22.52
28	20.79	21.34	21.51	---	---	---	14.93	---	---	19.79	---	22.55
29	20.82	21.35	21.51	---	---	---	14.96	---	---	19.84	---	22.58
30	20.84	21.36	21.52	---	---	---	14.97	---	---	19.90	---	22.61
31	20.86	---	21.52	---	---	---	---	---	---	19.96	---	---
MAX	20.86	21.36	21.52	21.54	---	---	14.97	15.58	---	19.96	20.57	22.61
CAL YR 2004	LOW 21.52											
WTR YR 2005	LOW 22.61											



Ground-Water Records—Portage County

411401081025000. Local Number, PO-1

LOCATION.—Latitude 41°14'01", longitude 81°02'50", Portage County, Hydrologic Unit 05030103. Bauer Street in Windham, Ohio. Owner: Cristopher Minter.
 AQUIFER.—Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 55 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval. Satellite telemeter at site.

DATUM.—Elevation of land-surface datum is 980 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

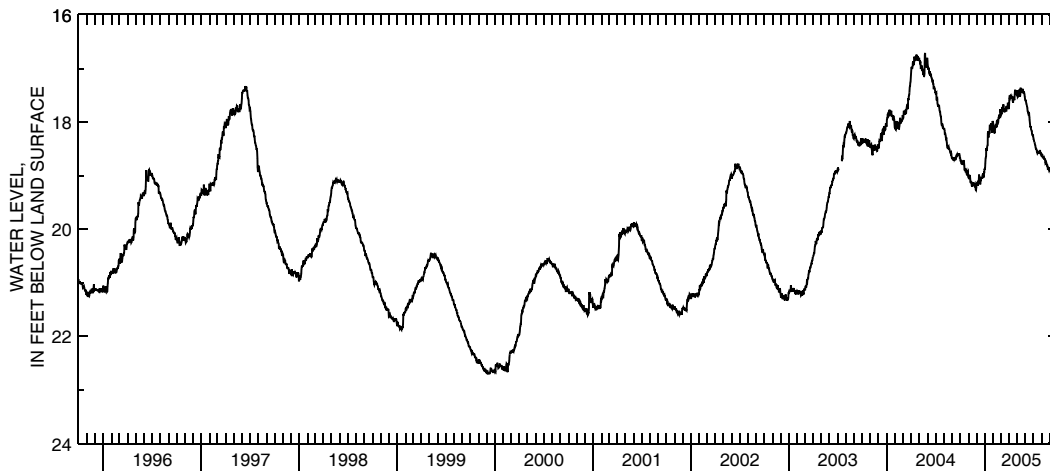
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 23.32 ft below land-surface datum, Mar. 13, 1992; minimum daily low, 14.59 ft below land-surface datum, June 24, 1947.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.67	19.04	19.16	18.89	18.02	17.81	17.76	17.42	17.59	18.29	18.60	18.88
2	18.72	19.03	19.16	18.85	18.05	17.85	17.59	17.43	17.60	18.32	18.61	18.90
3	18.72	19.06	19.14	18.78	18.13	17.86	17.55	17.48	17.60	18.34	18.62	18.92
4	18.74	18.99	19.13	18.68	18.16	17.84	17.56	17.53	17.63	18.36	18.62	18.95
5	18.77	19.01	19.19	18.64	18.20	17.84	17.53	17.52	17.66	18.38	18.66	18.96
6	18.78	18.99	19.17	18.49	18.20	17.82	17.51	17.45	17.68	18.40	18.66	18.97
7	18.78	19.07	19.11	18.54	18.17	17.72	17.50	17.43	17.71	18.42	18.66	18.95
8	18.76	19.12	19.16	18.49	18.11	17.76	17.52	17.44	17.74	18.44	18.67	18.93
9	18.74	19.14	19.12	18.48	18.07	17.76	17.54	17.42	17.78	18.49	18.66	18.98
10	18.78	19.11	18.98	18.44	18.05	17.72	17.53	17.40	17.81	18.50	18.67	19.01
11	18.80	19.10	19.03	18.43	18.05	17.67	17.56	17.48	17.83	18.50	18.69	19.03
12	18.77	19.15	19.03	18.21	18.05	17.74	17.52	17.53	17.84	18.51	18.69	19.01
13	18.71	19.20	19.10	18.18	18.10	17.79	17.54	17.49	17.83	18.52	18.70	19.00
14	18.74	19.21	19.15	18.28	18.03	17.80	17.58	17.36	17.83	18.55	18.75	19.04
15	18.75	19.18	19.15	18.28	18.04	17.82	17.62	17.40	17.85	18.56	18.77	19.07
16	18.82	19.15	19.09	18.23	17.97	17.79	17.64	17.43	17.91	18.58	18.76	19.05
17	18.89	19.14	19.09	18.20	17.96	17.75	17.57	17.44	17.96	18.57	18.77	19.08
18	18.89	19.14	19.03	18.22	18.00	17.77	17.56	17.44	18.02	18.58	18.76	19.12
19	18.86	19.15	19.06	18.07	18.01	17.76	17.55	17.41	18.08	18.58	18.79	19.13
20	18.90	19.17	19.05	18.07	18.00	17.77	17.57	17.42	18.10	18.58	18.80	19.14
21	18.93	19.20	19.03	18.11	17.92	17.79	17.59	17.43	18.08	18.55	18.79	19.14
22	18.93	19.18	19.06	18.05	17.92	17.79	17.55	17.39	18.14	18.57	18.81	19.16
23	18.91	19.16	19.00	18.13	17.92	17.70	17.44	17.38	18.15	18.59	18.84	19.22
24	18.90	19.15	18.98	18.11	17.88	17.74	17.40	17.43	18.16	18.56	18.88	19.22
25	18.96	19.20	18.96	18.02	17.86	17.73	17.43	17.45	18.17	18.54	18.88	19.19
26	18.98	19.21	18.99	18.13	17.91	17.72	17.43	17.43	18.22	18.54	18.85	19.16
27	18.98	19.20	19.04	18.20	17.91	17.71	17.46	17.45	18.24	18.57	18.84	19.19
28	18.99	19.26	19.00	18.18	17.76	17.64	17.47	17.46	18.24	18.59	18.89	19.17
29	18.93	19.27	18.94	18.05	---	17.72	17.44	17.49	18.25	18.61	18.90	19.19
30	18.92	19.22	18.94	17.98	---	17.71	17.42	17.53	18.26	18.62	18.89	19.21
31	19.02	---	18.87	18.00	---	17.74	---	17.58	---	18.61	18.86	---
MAX	19.02	19.27	19.19	18.89	18.20	17.86	17.76	17.58	18.26	18.62	18.90	19.22
CAL YR 2004		LOW 19.27										
WTR YR 2005		LOW 19.27										



Ground-Water Records—Preble County

394438084335900. Local Number, PR-2

LOCATION.—Latitude 39°44'38", longitude 84°33'59", Preble County, Hydrologic Unit 05080002, Stover Road, 4 mi east of Eaton, Ohio. Owner: City of Eaton.
 AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 78.5 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 900 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.50 ft above land-surface datum.

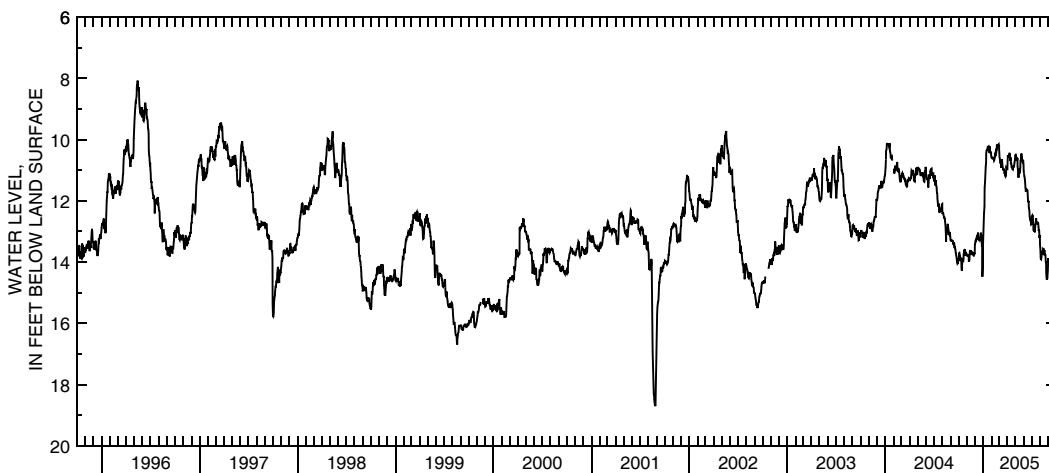
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 18.71 ft below land-surface datum, Aug. 27, 2001; minimum daily low, 7.94 ft below land-surface datum, May 4, 1975.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.89	13.76	13.43	13.31	10.57	10.27	10.97	10.50	11.00	12.65	13.44	13.87
2	13.86	13.77	13.39	13.02	10.61	10.45	10.64	10.49	11.11	12.51	13.54	13.95
3	13.71	13.79	13.31	12.80	10.57	10.58	10.51	10.53	11.15	12.50	13.82	13.92
4	13.70	13.79	13.28	12.42	10.62	10.62	10.58	10.68	11.22	12.48	13.91	13.98
5	13.76	13.80	13.26	12.18	10.62	10.75	10.55	10.60	11.27	12.50	13.92	14.08
6	13.86	13.80	13.28	11.56	10.62	10.75	10.55	10.60	11.39	12.71	13.81	14.01
7	13.92	13.79	13.21	11.44	10.59	10.73	10.50	10.68	11.56	12.96	13.70	13.98
8	13.96	13.96	13.23	11.15	10.59	10.90	10.46	10.60	11.68	12.97	13.72	14.11
9	13.87	13.96	13.23	11.05	10.63	10.91	10.46	10.88	11.68	12.97	13.71	14.29
10	13.89	13.93	13.14	10.86	10.68	10.68	10.49	10.97	11.68	12.98	13.75	14.26
11	13.96	13.77	13.11	10.77	10.67	10.64	10.64	11.19	11.66	13.01	13.64	14.12
12	14.26	13.64	13.04	10.44	10.61	10.69	10.69	11.24	11.69	13.01	13.57	14.15
13	14.28	13.63	13.10	10.35	10.57	10.83	10.58	11.20	11.66	12.95	13.58	14.16
14	14.08	13.61	13.22	10.34	10.43	10.88	10.80	11.01	11.66	12.76	13.58	14.18
15	13.97	13.67	13.27	10.34	10.51	10.93	10.76	10.95	11.67	12.78	13.70	14.21
16	13.94	13.68	13.29	10.32	10.51	11.00	10.86	11.00	11.85	12.69	13.69	14.19
17	13.97	13.64	13.29	10.29	10.35	10.97	10.92	11.10	11.98	12.57	13.61	13.98
18	14.00	13.67	13.28	10.31	10.33	10.97	10.88	11.03	12.05	12.66	13.77	13.93
19	13.89	13.76	13.23	10.26	10.35	10.97	10.96	10.91	12.00	12.72	13.77	14.07
20	13.73	13.67	13.26	10.23	10.29	11.01	10.97	10.69	12.21	12.69	13.76	14.05
21	13.69	13.70	13.23	10.22	10.16	11.12	10.98	10.68	12.27	12.75	13.77	13.97
22	13.70	13.73	13.16	10.28	10.20	11.09	10.89	10.60	12.33	12.70	13.99	13.85
23	13.60	13.72	13.04	10.41	10.22	11.04	10.90	10.46	12.50	12.78	14.04	13.84
24	13.58	13.68	13.09	10.41	10.20	11.19	10.90	10.48	12.55	12.69	14.36	13.74
25	13.70	13.77	13.16	10.22	10.23	11.20	10.88	10.62	12.63	12.75	14.52	13.68
26	13.69	13.79	13.31	10.28	10.19	11.15	10.87	10.62	12.57	12.87	14.58	13.53
27	13.77	13.79	13.48	10.42	10.18	11.10	10.78	10.72	12.68	12.98	14.51	13.55
28	13.77	13.69	13.48	10.43	10.17	10.89	10.73	10.73	12.72	12.94	14.52	13.56
29	13.70	13.75	14.48	10.42	---	10.90	10.68	10.68	12.78	12.99	14.45	13.61
30	13.72	13.71	14.20	10.42	---	10.91	10.54	10.69	12.77	13.21	14.29	13.50
31	13.80	---	13.58	10.53	---	10.97	---	10.80	---	13.12	13.97	---
MAX	14.28	13.96	14.48	13.31	10.68	11.20	10.98	11.24	12.78	13.21	14.58	14.29
CAL YR 2004		LOW 14.48										
WTR YR 2005		LOW 14.58										



Ground-Water Records—Richland County

404625082305100. Local Number, R-4

LOCATION.—Latitude 40°46'25", longitude 82°30'51", Richland County, Hydrologic Unit 05040002, at Ohio Brass Plant in Mansfield, Ohio. Owner: Ohio Brass Company

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 14 in., depth 127 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,150 ft above sea level (from topographic map). Measuring point: Top of platform 5.00 ft above land-surface datum.

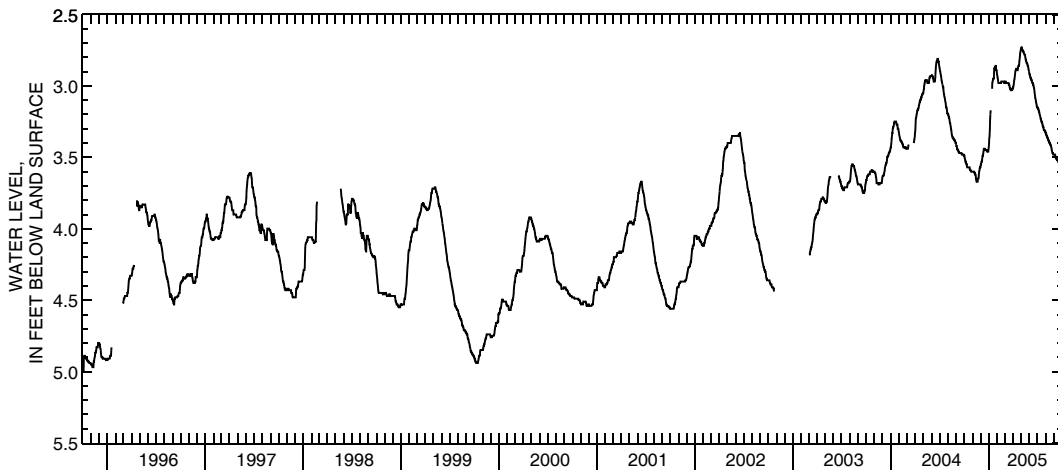
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1942 to current year. (No record in 1948.)

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 60.10 ft below land-surface datum, Oct. 12, 13, 19, and 20, 1962; minimum daily low, 2.73 ft below land-surface datum, May 3-4, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.49	3.60	3.57	3.43	2.92	2.98	3.01	2.74	2.91	3.15	3.33	3.48
2	3.49	3.60	3.55	3.40	2.93	2.97	3.01	2.74	2.92	3.15	3.33	3.48
3	3.50	3.60	3.55	3.37	2.94	2.97	3.00	2.73	2.92	3.16	3.34	3.48
4	3.51	3.60	3.54	3.35	2.95	2.97	2.99	2.73	2.93	3.16	3.34	3.48
5	3.52	3.60	3.53	3.30	2.97	2.97	2.97	2.74	2.94	3.16	3.35	3.48
6	3.53	3.60	3.53	3.25	2.98	2.98	2.96	2.75	2.94	3.17	3.35	3.49
7	3.53	3.60	3.52	3.20	2.98	2.98	2.95	2.75	2.95	3.18	3.36	3.50
8	3.54	3.60	3.50	3.17	2.98	2.98	2.94	2.75	2.95	3.18	3.36	3.50
9	3.54	3.61	3.49	---	2.98	2.98	2.92	2.76	2.96	3.19	3.37	3.50
10	3.55	3.61	3.49	---	2.98	2.98	2.90	2.76	2.96	3.20	3.37	3.51
11	3.55	3.62	3.47	---	2.98	2.98	2.89	2.76	2.97	3.21	3.38	3.51
12	3.57	3.62	3.46	---	2.98	2.98	2.88	2.77	2.98	3.22	3.38	3.52
13	3.57	3.63	3.44	3.02	2.98	2.98	2.88	2.78	2.98	3.23	3.39	3.52
14	3.57	3.65	3.44	2.98	2.98	2.98	2.88	2.78	2.98	3.23	3.39	3.52
15	3.57	3.66	3.44	2.97	2.98	2.98	2.88	2.78	2.99	3.24	3.40	3.52
16	3.57	3.67	3.44	2.96	2.97	2.99	2.89	2.79	2.99	3.25	3.40	3.52
17	3.57	3.67	3.44	2.95	2.97	2.99	2.89	2.80	3.00	3.25	3.41	3.53
18	3.57	3.67	3.44	2.95	2.97	2.99	2.89	2.81	3.01	3.26	3.41	3.53
19	3.57	3.67	3.45	2.95	2.97	3.00	2.88	2.82	3.02	3.26	3.41	3.54
20	3.57	3.67	3.45	2.94	2.97	3.01	2.87	2.82	3.03	3.27	3.42	3.54
21	3.57	3.65	3.45	2.88	2.97	3.02	2.86	2.83	3.05	3.28	3.42	3.55
22	3.58	3.65	3.45	2.88	2.97	3.02	2.86	2.84	3.07	3.28	3.43	3.56
23	3.59	3.65	3.45	2.87	2.97	3.02	2.86	2.84	3.08	3.29	3.44	3.56
24	3.59	3.64	3.45	2.87	2.97	3.03	2.85	2.84	3.09	3.29	3.45	3.57
25	3.59	3.62	3.45	2.87	2.97	3.03	2.83	2.85	3.10	3.31	3.46	3.57
26	3.59	3.60	3.46	2.86	2.97	3.03	2.81	2.86	3.11	3.31	3.47	3.57
27	3.60	3.59	3.46	2.86	2.98	3.03	2.79	2.86	3.12	3.31	3.47	3.57
28	3.60	3.58	3.46	2.88	2.98	3.03	2.77	2.87	3.13	3.31	3.47	3.57
29	3.60	3.57	3.46	2.89	---	3.03	2.76	2.88	3.14	3.31	3.48	3.57
30	3.60	3.57	3.46	2.89	---	3.02	2.75	2.89	3.15	3.32	3.48	3.57
31	3.60	---	3.45	2.90	---	3.02	---	2.90	---	3.32	3.48	---
MAX	3.60	3.67	3.57	3.43	2.98	3.03	3.01	2.90	3.15	3.32	3.48	3.57
CAL YR 2004	LOW 3.67											
WTR YR 2005	LOW 3.67											



405753082360800. Local Number, R-3

LOCATION.—Latitude 40°57'53", longitude 82°36'08", Richland County, Hydrologic Unit 05040002, Voisard plant in Shiloh, Ohio. Owner: Voisard Corporation.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 150 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,080 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.17 ft above land-surface datum.

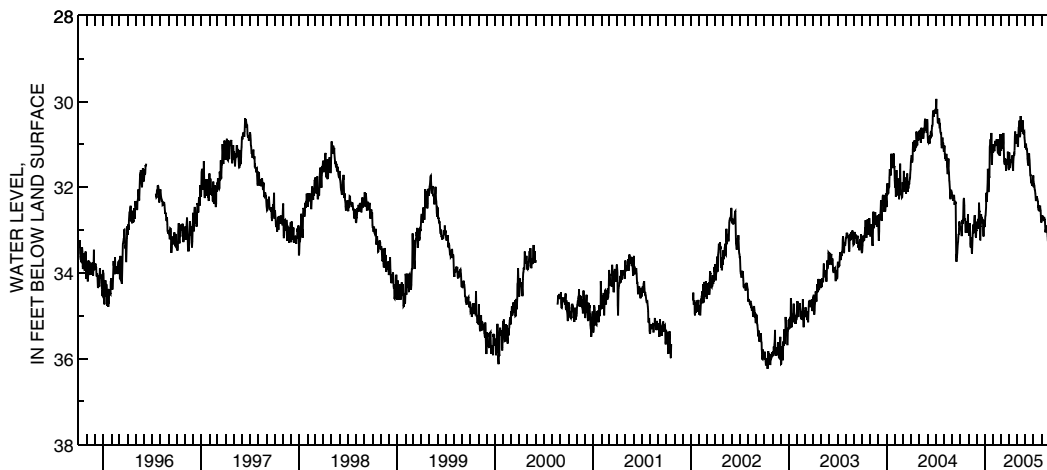
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. Published in WDR-OH-2 prior to 1995 water year.

PERIOD OF RECORD.—April 1946 to current year. (No record in 1948.)

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 36.24 ft below land-surface datum, Oct. 13, 2002; minimum daily low, 23.68 ft below land-surface datum, June 15 and 23, 1947.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.93	33.02	33.02	32.93	31.19	30.84	31.60	30.78	31.05	31.72	32.68	33.11
2	32.95	33.00	32.94	32.75	31.13	31.06	31.19	30.79	31.02	31.87	32.68	33.19
3	32.96	33.14	32.90	32.68	31.02	31.15	31.41	30.91	31.00	31.92	32.67	33.26
4	32.99	32.84	32.81	32.65	31.09	31.04	31.55	31.04	31.00	31.93	32.67	33.33
5	33.06	32.91	32.97	32.47	31.16	31.08	31.53	31.04	31.12	31.97	32.76	33.38
6	33.14	32.84	32.74	32.13	31.11	31.03	31.49	30.84	31.11	32.05	32.73	33.38
7	33.12	33.10	32.76	32.18	31.04	30.76	31.34	30.59	31.14	32.08	32.75	33.33
8	32.91	33.32	32.96	32.34	30.93	30.99	31.40	30.61	31.23	32.15	32.74	33.20
9	32.76	33.40	32.70	32.25	30.92	31.10	31.37	30.57	31.33	32.24	32.75	33.26
10	32.85	33.20	32.36	32.05	31.03	30.96	31.41	30.44	31.42	32.30	32.69	33.34
11	32.83	33.17	32.58	31.86	30.99	30.73	31.40	30.64	31.48	32.30	32.75	33.35
12	32.68	33.31	32.55	31.57	30.93	30.95	31.26	30.83	31.48	32.25	32.74	33.29
13	32.35	33.54	32.99	31.67	31.03	31.26	31.31	30.75	31.35	32.24	32.79	33.19
14	32.28	33.55	33.24	32.11	30.88	31.40	31.41	30.34	31.29	32.21	32.96	33.20
15	32.25	33.35	33.23	32.09	30.92	31.44	31.54	30.49	31.21	32.26	33.05	33.30
16	32.43	33.16	32.91	31.84	30.98	31.47	31.62	30.60	31.34	32.28	32.99	33.22
17	32.72	33.05	32.92	31.75	31.05	31.32	31.42	30.66	31.37	32.33	32.98	33.25
18	32.77	32.93	32.63	31.78	31.19	31.34	31.30	30.71	31.56	32.32	32.92	33.34
19	32.73	32.87	32.81	31.06	31.20	31.35	31.25	30.62	31.70	32.48	32.91	33.41
20	32.84	32.95	32.77	31.03	31.16	31.47	31.21	30.56	31.72	32.47	32.92	33.38
21	33.05	33.07	32.69	31.14	30.88	31.61	31.22	30.63	31.72	32.43	33.00	33.40
22	33.06	32.95	32.77	30.88	31.03	31.55	31.13	30.54	31.88	32.50	33.05	33.24
23	32.90	32.77	32.82	31.18	31.15	31.34	30.81	30.44	31.89	32.56	33.16	33.45
24	32.79	32.65	32.82	31.10	31.15	31.46	30.70	30.67	31.86	32.53	33.26	33.41
25	32.94	32.91	32.77	30.73	31.17	31.44	30.80	30.76	31.89	32.49	33.24	33.33
26	33.02	32.91	32.97	31.13	31.27	31.47	30.77	30.69	31.96	32.43	33.10	33.28
27	33.06	32.80	33.15	31.46	31.23	31.41	30.93	30.72	31.94	32.50	32.88	33.42
28	33.04	33.16	32.91	31.46	30.76	31.17	30.98	30.71	31.95	32.54	33.04	33.34
29	32.83	33.18	32.80	31.15	---	31.40	30.87	30.84	31.86	32.62	33.02	33.41
30	32.63	33.00	32.81	30.99	---	31.39	30.77	30.92	31.78	32.81	32.96	33.44
31	32.96	---	32.79	31.06	---	31.55	---	31.08	---	32.81	33.00	---
MAX	33.14	33.55	33.24	32.93	31.27	31.61	31.62	31.08	31.96	32.81	33.26	33.45
CAL YR 2004	LOW 33.74											
WTR YR 2005	LOW 33.55											



Ground-Water Records—Ross County

391341083172200. Local Number, RO-7

LOCATION.—Latitude 39°13'41", longitude 83°17'22", Ross County, Hydrologic Unit 05060003, Highland County well field, 1 mi west of Bainbridge, Ohio.

Owner: Highland County Water Company.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 67 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 740 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

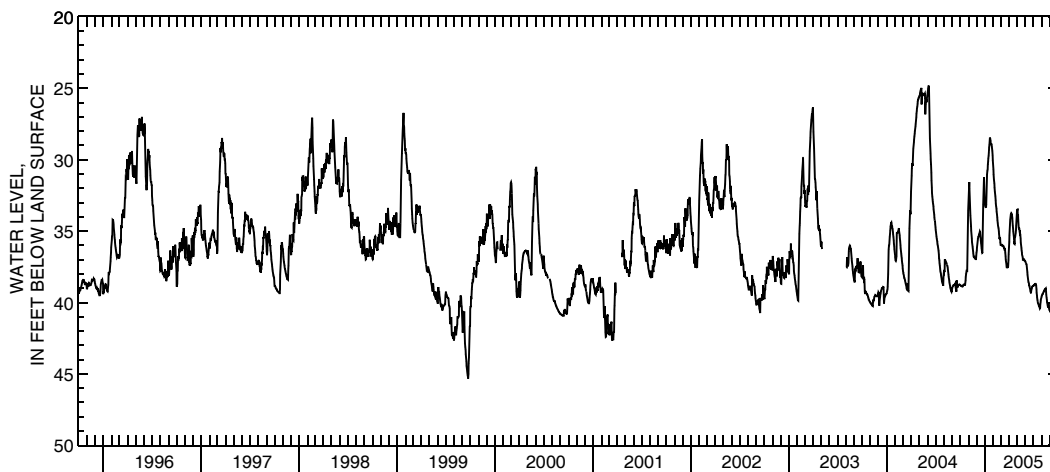
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—February 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 45.88 ft below land-surface datum, Dec. 31, 1989; minimum daily low, 20.93 ft below land-surface datum, Feb. 28, 1971.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.77	33.05	36.51	32.95	30.38	35.98	36.24	33.64	37.12	38.83	39.58	40.59
2	38.79	32.51	36.38	33.16	30.68	35.98	35.75	33.49	37.18	38.81	39.50	40.63
3	38.80	32.09	36.16	33.24	31.04	35.98	35.28	33.48	37.23	38.81	39.45	40.67
4	38.83	31.57	35.95	33.31	31.37	35.97	34.88	33.90	37.28	38.80	39.41	40.71
5	38.84	32.02	35.76	33.30	31.68	36.01	34.46	33.90	37.31	38.77	39.39	40.75
6	38.86	32.82	35.55	33.13	31.96	36.01	34.18	34.21	37.33	38.70	39.30	40.80
7	38.87	33.44	35.42	32.32	32.24	35.99	33.90	34.77	37.64	38.69	39.27	40.82
8	38.87	33.91	35.40	31.39	32.45	36.05	33.79	34.80	37.87	38.70	39.24	40.85
9	38.88	34.30	35.35	31.03	32.55	36.06	33.74	34.77	38.06	38.70	39.21	40.88
10	38.87	34.65	35.24	30.79	32.86	36.04	33.77	34.99	38.25	38.76	39.17	40.90
11	38.82	34.97	35.20	30.67	33.08	36.05	33.84	35.14	38.42	38.81	39.14	40.95
12	38.77	35.23	35.14	30.35	33.28	36.09	33.88	35.12	38.51	39.06	39.11	40.98
13	38.74	35.51	35.04	30.10	33.44	36.14	34.08	35.28	38.62	39.31	39.08	41.00
14	38.74	35.76	35.10	29.91	33.63	36.20	34.30	35.51	38.68	39.50	39.05	41.12
15	38.74	35.94	35.27	29.73	33.82	36.22	34.61	35.81	38.79	39.67	39.03	41.12
16	38.77	36.11	35.48	29.39	34.03	36.37	34.83	36.00	38.82	39.82	39.01	41.10
17	38.78	36.24	35.65	29.13	34.24	36.21	35.03	36.18	38.90	39.95	39.23	41.04
18	38.78	36.41	35.86	28.94	34.44	36.51	35.22	36.34	39.03	40.05	39.44	40.99
19	38.73	36.57	36.05	28.60	34.66	36.76	35.43	36.49	39.10	40.10	39.64	40.96
20	38.63	36.73	36.19	28.44	34.70	36.99	35.66	36.69	39.23	40.17	39.81	40.93
21	38.46	36.83	36.39	28.52	34.80	37.15	35.90	36.74	39.30	40.20	39.96	40.92
22	38.21	36.84	36.53	28.69	35.02	37.29	35.91	36.83	39.29	40.24	40.08	40.90
23	38.02	36.84	36.51	28.86	35.19	37.46	35.38	37.01	39.18	40.28	40.20	40.88
24	37.88	36.82	34.98	28.92	35.39	37.59	35.38	37.01	39.06	40.32	40.30	40.88
25	37.79	36.89	33.95	28.91	35.56	37.44	35.27	36.98	39.00	40.40	40.34	40.87
26	37.80	36.93	33.13	28.92	35.43	37.48	35.17	36.93	38.91	40.36	40.04	40.85
27	37.80	36.93	32.47	29.07	35.53	37.53	34.91	37.00	38.88	40.12	40.23	40.84
28	36.11	36.96	31.84	29.18	35.80	37.58	34.62	37.02	38.86	39.96	40.35	40.84
29	35.02	36.96	31.23	29.38	---	37.46	34.24	37.04	38.84	39.83	40.45	40.83
30	34.22	36.67	31.93	29.69	---	37.02	33.87	37.07	38.82	39.71	40.52	40.82
31	33.56	---	32.62	30.03	---	36.61	---	37.10	---	39.64	40.56	---
MAX	38.88	36.96	36.53	33.31	35.80	37.59	36.24	37.10	39.30	40.40	40.56	41.12
CAL YR 2004	LOW 39.37											
WTR YR 2005	LOW 41.12											



391544083095700. Local Number, RO-6

LOCATION.—Latitude 39°15'44", longitude 83°09'57", Ross County, Hydrologic Unit 05060003, southwest of Bourneville, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 78 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 676.27 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 7.4 ft above land-surface datum.

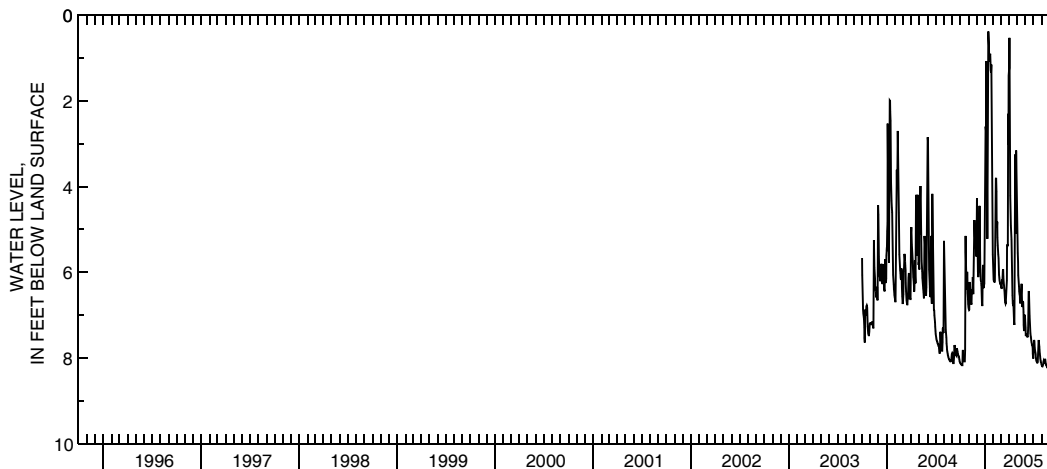
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—August 1960 to December 1975 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 8.50 ft below land-surface datum, Oct. 16, 18, 20, 1969, and Aug. 26-28, 1974; minimum daily low, 0.03 ft below land-surface datum, Apr. 23, 1964.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.12	6.81	5.60	5.21	5.80	6.25	1.31	4.32	7.18	8.00	8.17	7.90
2	8.13	6.87	4.44	4.47	6.06	6.29	1.23	4.73	7.29	7.78	8.19	8.01
3	8.14	6.88	4.27	3.33	6.17	6.34	0.53	5.23	7.49	7.66	8.20	8.08
4	8.15	6.87	4.65	2.60	6.21	6.37	2.11	5.55	7.47	7.58	8.20	8.14
5	8.15	6.23	5.59	2.72	6.23	6.37	3.34	5.76	7.43	7.61	8.17	8.19
6	8.16	6.27	5.97	1.07	6.23	6.21	4.21	6.07	7.45	7.76	8.15	8.22
7	8.17	6.42	6.11	2.39	6.19	6.22	4.65	6.22	7.48	7.82	8.10	8.25
8	8.17	6.52	5.97	3.43	5.65	6.06	4.91	6.34	7.51	7.87	8.07	8.27
9	8.17	6.61	5.39	4.71	4.61	5.95	5.09	6.44	7.52	7.91	8.09	8.28
10	7.85	6.69	5.46	5.22	4.04	5.93	5.24	6.51	7.47	8.00	8.10	8.29
11	7.81	6.74	4.89	3.46	3.81	6.09	5.51	6.55	7.29	8.04	8.11	8.31
12	7.96	6.74	4.45	1.16	3.80	6.23	5.95	6.71	6.93	8.07	8.11	8.32
13	8.03	6.40	5.09	0.58	4.12	6.30	6.31	6.71	6.46	8.09	8.04	8.33
14	8.07	6.45	5.69	0.38	4.85	6.36	6.54	6.67	6.46	8.11	8.04	8.35
15	8.08	6.49	5.95	0.54	4.95	6.43	6.72	6.63	6.60	8.11	8.07	8.36
16	8.08	6.25	6.09	0.71	4.82	6.56	6.79	6.46	6.87	8.11	8.13	8.37
17	8.08	6.11	6.18	0.93	5.19	6.64	6.65	6.32	7.02	8.09	8.17	8.36
18	8.08	6.41	6.24	1.08	5.37	6.70	6.83	6.27	7.15	7.99	8.18	8.36
19	7.82	6.51	6.31	0.96	5.50	6.73	7.04	6.53	7.32	7.83	8.18	8.37
20	6.26	6.22	6.45	0.93	5.58	6.72	7.17	6.74	7.42	7.62	8.20	8.36
21	5.15	5.85	6.69	0.90	5.67	6.59	7.23	6.81	7.49	7.58	8.20	8.35
22	5.53	5.31	6.79	1.15	5.93	6.46	7.04	6.72	7.54	7.66	8.22	8.34
23	5.78	4.78	6.77	1.28	6.06	6.39	5.66	6.67	7.58	7.74	8.23	8.35
24	6.23	5.01	5.95	1.34	6.13	6.19	3.25	6.70	7.63	7.81	8.25	8.35
25	6.40	5.15	5.83	1.15	6.19	5.39	4.30	6.93	7.67	7.90	8.27	8.35
26	6.16	5.30	6.21	2.64	6.23	5.35	5.10	7.23	7.70	7.97	8.28	8.34
27	5.99	5.33	6.37	3.25	6.27	5.37	3.96	7.37	7.73	8.02	8.29	8.32
28	6.07	5.29	6.28	4.19	6.28	5.36	3.16	7.30	7.75	8.06	8.31	8.31
29	6.48	5.51	6.29	4.91	---	2.30	3.48	7.02	7.90	8.09	8.31	8.33
30	6.63	5.63	6.27	5.35	---	3.03	4.09	6.99	8.00	8.12	8.27	8.33
31	6.74	---	5.75	5.59	---	1.41	---	7.08	---	8.14	8.20	---
MAX	8.17	6.88	6.79	5.59	6.28	6.73	7.23	7.37	8.00	8.14	8.31	8.37
WTR YR 2004	LOW 8.17											
WTR YR 2005	LOW 8.37											



Ground-Water Records—Shelby County

401707084103100. Local Number, SH-5

LOCATION.—Latitude 40°17'07", longitude 84°10'31", Shelby County, Hydrologic Unit 05080001, at Sidney, Ohio. Owner: Stolle Corporation.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 300 ft, cased to 130 ft.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,028 ft above sea level (from topographic map). Measuring point: Top of platform 1.7 ft above land-surface datum.

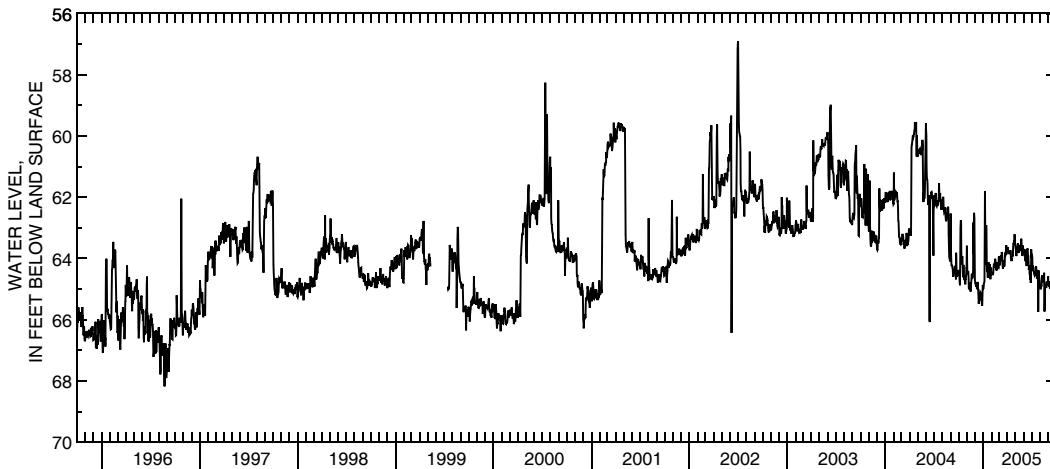
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—July 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 70.22 ft below land-surface datum, Sept. 23, 1993; minimum daily low, 56.90 ft below land-surface datum, July 2, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.52	63.59	64.69	64.98	64.53	63.93	63.77	63.60	63.76	63.94	64.92	64.77
2	64.47	64.35	64.79	64.97	64.50	64.16	63.64	63.67	63.84	63.92	64.92	64.84
3	64.53	64.53	64.82	64.91	64.46	64.23	63.79	63.77	63.83	63.96	65.01	64.93
4	64.55	64.48	64.82	64.80	64.51	64.12	63.83	63.90	63.70	64.25	64.92	64.76
5	64.79	64.49	64.93	64.75	64.55	64.15	63.82	63.92	63.75	64.33	64.90	64.84
6	64.88	64.47	64.88	64.43	64.52	64.11	63.82	63.81	63.99	64.30	64.90	64.99
7	63.66	64.66	64.79	61.81	64.47	63.91	63.73	63.66	64.09	64.32	64.64	64.97
8	63.02	64.98	65.00	63.39	64.28	64.03	63.79	63.66	64.04	64.41	64.56	64.85
9	62.75	65.01	64.99	63.87	64.23	64.06	63.84	63.54	63.95	64.50	64.78	64.79
10	62.79	64.93	64.77	64.17	64.24	63.89	63.84	63.51	63.87	64.53	64.65	64.92
11	63.75	64.80	64.84	64.21	64.29	63.79	63.83	63.66	64.25	64.56	64.59	64.99
12	64.19	64.84	64.87	62.91	64.16	63.85	63.73	63.83	63.98	64.53	64.72	64.93
13	64.09	65.00	65.06	63.44	64.12	64.09	63.82	63.77	63.73	64.44	64.76	64.91
14	64.00	65.06	65.37	64.19	64.01	64.21	63.96	63.61	63.70	64.41	64.71	64.85
15	63.93	65.06	65.48	64.43	64.05	64.33	64.02	63.59	63.67	64.47	64.72	64.90
16	64.24	64.91	65.37	64.40	64.14	64.28	64.09	63.69	63.78	64.34	64.47	64.43
17	64.50	64.78	65.29	64.49	64.22	64.15	64.06	63.73	63.95	64.26	65.74	64.62
18	64.62	64.67	65.15	64.64	64.34	64.10	63.97	63.72	63.94	64.36	65.62	64.81
19	64.55	64.54	65.22	64.32	64.40	64.08	63.91	63.65	64.16	64.54	64.87	64.68
20	64.22	64.50	65.23	64.13	64.38	64.24	63.86	63.55	64.38	64.66	64.90	64.69
21	64.56	64.63	65.11	64.19	64.14	64.24	63.88	63.66	64.28	64.38	64.92	64.68
22	64.71	64.63	65.13	64.15	64.27	64.10	63.82	63.58	64.29	64.56	64.85	64.59
23	64.59	64.51	65.29	64.43	64.28	63.82	63.52	63.36	64.50	64.66	64.90	64.24
24	64.55	64.41	65.36	64.44	64.18	63.85	63.51	63.65	64.54	64.64	64.97	64.35
25	64.70	62.83	65.37	64.19	64.20	63.83	63.51	63.71	64.70	65.75	64.76	64.38
26	64.85	63.72	65.37	64.21	64.29	63.86	63.40	63.91	64.24	65.01	64.90	64.34
27	64.69	63.88	65.51	64.63	64.30	63.82	63.50	63.63	64.80	64.40	64.80	64.52
28	64.68	62.51	65.54	64.68	63.98	63.57	63.21	63.58	64.53	64.60	64.84	64.45
29	64.57	62.69	65.25	64.54	---	63.71	63.44	63.65	63.70	64.66	64.81	64.44
30	64.33	63.72	64.87	64.30	---	63.64	63.53	63.68	63.91	64.74	64.76	64.50
31	64.33	---	64.88	64.41	---	63.69	---	63.84	---	64.98	64.59	---
MAX	64.88	65.06	65.54	64.98	64.55	64.33	64.09	63.92	64.80	65.75	65.74	64.99
CAL YR 2004	LOW 66.08											
WTR YR 2005	LOW 65.75											



Ground-Water Records—Stark County

404939081203800. Local Number, ST-5A

LOCATION.—Latitude 40°49'39", longitude 81°20'38", Stark County, Hydrologic Unit 05040001, off Harrisburg Road, Canton, Ohio. Owner: City of Cantont.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 12 in., depth 132 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,060 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

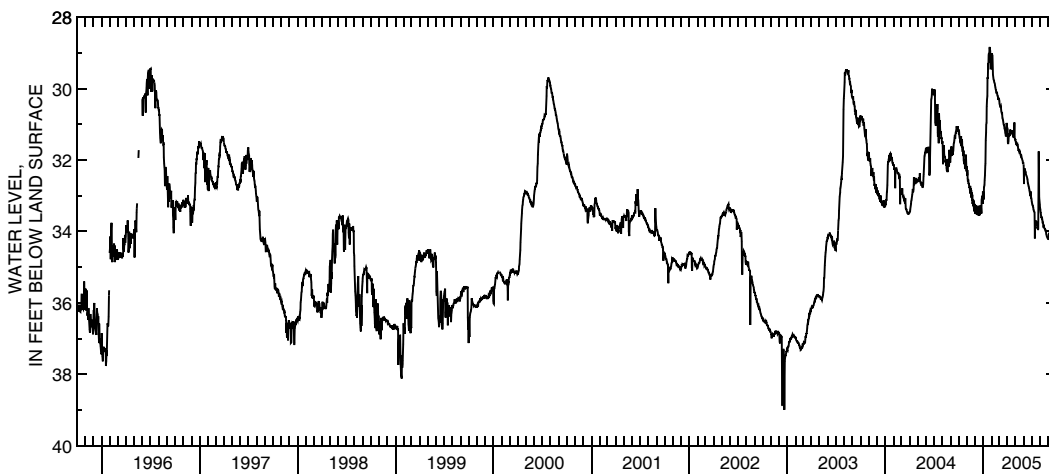
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 54.00 ft below land-surface datum, Feb. 10, 1956; minimum daily low, 26.13 ft below land-surface datum, May 18, 1964.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.14	32.18	33.45	32.90	29.46	30.29	31.11	31.41	32.15	33.15	33.33	34.22
2	31.28	32.43	33.27	33.09	29.00	30.35	31.14	31.49	32.67	33.20	33.38	34.14
3	31.17	32.28	33.51	33.09	29.04	30.42	31.50	31.50	32.34	33.24	33.47	34.05
4	31.32	32.52	33.27	32.76	29.08	30.45	31.55	31.52	32.25	33.27	33.48	34.07
5	31.40	32.58	33.50	32.70	29.42	30.51	31.47	31.58	32.25	33.28	33.59	34.03
6	31.38	32.57	33.27	32.57	29.61	30.51	31.29	31.56	32.30	33.33	33.59	33.99
7	31.50	32.67	33.51	32.43	29.68	30.48	31.33	31.58	32.32	33.39	33.63	34.05
8	31.41	32.64	33.51	32.16	29.75	30.58	31.29	31.56	32.34	33.41	33.63	33.99
9	31.55	32.73	33.33	32.10	29.76	30.63	31.25	31.59	32.40	33.44	33.69	34.07
10	31.33	32.78	33.33	31.44	29.78	30.66	31.33	31.62	32.43	33.45	33.75	34.05
11	31.61	32.76	33.32	31.23	29.83	30.69	31.17	31.71	32.45	33.47	33.75	34.05
12	31.41	32.85	33.51	30.99	29.85	30.69	31.17	31.71	32.46	34.20	33.77	34.05
13	31.65	32.72	33.50	30.96	29.88	30.81	31.20	31.74	32.49	33.80	33.85	34.08
14	31.47	32.94	33.33	30.51	29.91	30.83	31.25	31.74	32.53	33.69	33.84	34.13
15	31.71	32.78	33.36	30.30	29.96	30.86	31.25	31.76	32.55	33.74	33.87	34.13
16	31.77	32.99	33.56	30.21	30.02	30.92	31.23	31.74	32.64	33.75	33.90	34.16
17	31.63	32.84	33.33	29.68	30.03	30.95	31.17	31.77	32.67	33.74	33.92	34.19
18	31.89	33.06	33.33	29.72	30.08	31.01	31.20	31.80	32.70	33.78	33.92	34.19
19	31.73	32.91	33.54	29.28	30.12	31.02	31.26	31.82	32.73	33.77	33.93	34.23
20	32.01	33.13	33.53	29.46	30.12	31.04	31.26	31.86	32.75	33.84	33.96	34.25
21	32.06	32.97	33.27	29.06	30.09	31.11	31.29	31.88	32.79	33.82	33.98	34.28
22	31.98	33.23	33.32	29.00	30.17	31.14	31.28	31.85	32.85	33.92	33.98	34.19
23	32.12	33.17	33.35	29.28	30.20	31.17	31.29	31.88	32.87	33.87	34.03	34.26
24	32.03	33.09	33.36	28.88	30.21	31.23	31.29	31.92	32.93	33.96	34.08	34.29
25	32.25	33.30	33.50	28.83	30.23	31.25	31.35	31.97	32.99	33.93	34.10	34.32
26	32.21	33.13	33.12	28.89	30.32	31.32	31.35	31.98	33.00	33.32	34.14	34.35
27	32.13	33.36	33.07	28.95	30.26	31.32	30.95	32.01	32.88	31.76	34.16	34.38
28	31.85	33.20	33.03	29.25	30.27	31.20	31.35	32.03	33.03	32.79	34.17	34.38
29	31.98	33.44	33.00	29.25	---	30.96	31.41	32.09	33.06	33.05	34.19	34.38
30	32.24	33.23	33.23	29.38	---	31.01	31.43	32.06	33.09	33.15	34.20	34.41
31	32.32	---	32.90	29.42	---	31.07	---	32.13	---	33.25	34.17	---
MAX	32.32	33.44	33.56	33.09	30.32	31.32	31.55	32.13	33.09	34.20	34.20	34.41
CAL YR 2004		LOW 33.56										
WTR YR 2005		LOW 34.41										



405211081253500. Local Number, ST-27

LOCATION.—Latitude 40°52'11", longitude 81°25'35", Stark County, Hydrologic Unit 05040001, Dresler Road near North Canton, Ohio. Owner: City of North Canton.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 55 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,060 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.50 ft above land-surface datum.

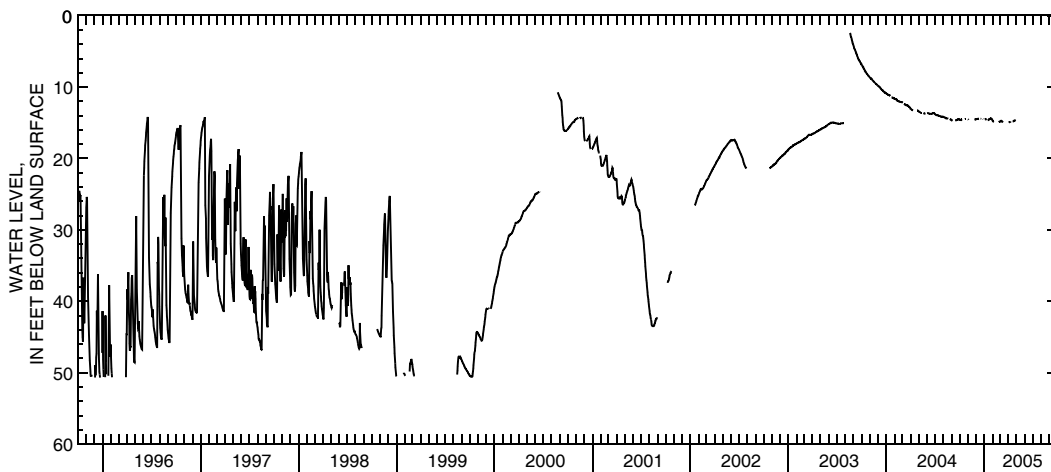
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 51.10 ft below land-surface datum, May 20, 1990; minimum daily low, 2.42 ft below land-surface datum, Aug. 19, 2003.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.59	14.54	14.54	---	14.72	14.82	---	---	---	---	---	---
2	14.60	14.57	14.52	---	14.75	14.82	14.96	---	---	---	---	---
3	14.61	14.60	14.50	14.54	14.81	14.78	14.94	---	---	---	---	---
4	14.62	---	14.50	14.52	14.88	14.78	14.93	---	---	---	---	---
5	14.63	---	14.49	14.50	14.90	14.75	14.93	---	---	---	---	---
6	14.64	---	14.48	14.50	---	14.75	14.90	---	---	---	---	---
7	14.63	---	14.48	14.55	---	14.78	14.90	---	---	---	---	---
8	14.57	---	14.46	14.60	---	14.82	14.87	---	---	---	---	---
9	14.57	---	14.45	14.64	---	14.85	14.84	---	---	---	---	---
10	14.55	---	14.45	---	---	14.88	---	---	---	---	---	---
11	---	---	14.43	---	---	14.91	---	---	---	---	---	---
12	---	---	---	---	---	14.94	14.82	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	14.65	---	---	---	---	---	---	---	---
15	---	---	---	14.64	---	---	---	---	---	---	---	---
16	---	---	---	14.63	---	---	---	---	---	---	---	---
17	---	---	14.43	14.60	---	---	14.82	---	---	---	---	---
18	---	---	14.45	14.57	---	---	14.81	---	---	---	---	---
19	---	---	---	14.55	---	---	14.79	---	---	---	---	---
20	---	---	14.45	14.52	---	---	14.78	---	---	---	---	---
21	14.54	---	14.46	14.49	---	---	14.76	---	---	---	---	---
22	14.52	---	---	14.48	---	---	14.75	---	---	---	---	---
23	14.50	---	---	14.48	---	---	14.75	---	---	---	---	---
24	14.49	---	---	14.43	14.90	---	14.72	---	---	---	---	---
25	14.48	---	---	14.42	14.88	---	14.69	---	---	---	---	---
26	---	14.58	---	14.40	14.87	---	14.67	---	---	---	---	---
27	---	14.58	14.49	14.43	14.85	---	14.67	---	---	---	---	---
28	---	14.57	14.54	14.48	14.84	---	14.65	---	---	---	---	---
29	---	14.55	---	14.52	---	---	---	---	---	---	---	---
30	---	14.55	---	14.58	---	---	---	---	---	---	---	---
31	---	---	---	14.63	---	---	---	---	---	---	---	---
MAX	14.64	14.60	14.54	14.65	14.90	14.94	14.96	---	---	---	---	---
CAL YR 2004	LOW 14.72											
WTR YR 2005	LOW 14.96											



Ground-Water Records—Tuscarawas County

403207081293800. Local Number, TU-3

LOCATION.—Latitude 40°32'07", longitude 81°29'38", Tuscarawas County, Hydrologic Unit 05040001, in the northwest part of Dover, Ohio. Owner: City of Dover.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 62 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 880 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

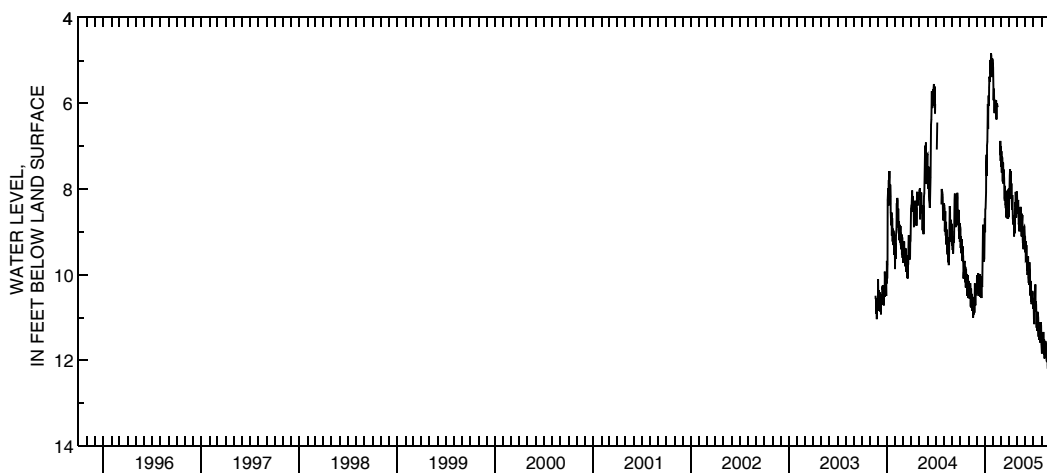
PERIOD OF RECORD.—May 1960 to October 1982 continuous, November 1982 to November 2003 periodic, continuous thereafter.

REVISIONS.—The water level reported for Jan. 31, 1993, has been revised to 9.25 ft below land-surface datum.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 19.35 ft below land-surface datum, Nov. 29, 30, and Dec. 6-8, 1962; minimum daily low, 3.2 ft below land-surface datum, July 14-15, 1969.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.88	10.55	10.32	8.69	5.16	7.35	8.66	8.06	9.48	10.55	11.69	11.49
2	8.94	10.16	10.43	9.01	5.71	7.01	7.98	8.28	9.22	10.60	11.84	11.03
3	9.38	10.15	10.02	8.48	5.93	7.49	8.08	8.58	9.66	11.03	11.40	10.96
4	9.11	10.51	10.39	8.45	5.66	7.12	7.69	8.40	9.65	11.09	11.43	11.01
5	9.50	10.55	10.07	8.08	6.16	7.62	7.54	8.28	9.31	11.16	11.76	11.47
6	9.32	10.55	10.11	7.39	6.23	7.24	7.92	8.26	9.45	10.72	11.69	11.15
7	9.17	10.20	9.97	7.20	5.94	7.28	7.59	8.83	9.90	10.57	11.34	11.24
8	9.66	10.29	10.50	7.70	5.92	7.83	8.17	8.76	9.57	10.23	11.82	11.26
9	9.67	10.75	10.46	6.98	6.19	7.39	8.23	8.96	10.01	10.87	11.86	11.66
10	9.34	10.35	10.41	6.90	6.23	7.40	7.88	8.99	9.65	10.63	11.52	11.29
11	9.52	10.35	10.29	6.58	6.11	7.88	8.02	8.44	9.58	10.70	11.94	11.34
12	9.57	10.78	10.29	6.02	5.93	7.55	8.49	8.89	10.07	11.14	11.96	11.36
13	10.09	10.45	9.99	6.60	6.38	7.67	8.14	8.91	10.19	11.24	11.61	11.44
14	10.00	10.85	10.05	6.06	6.07	7.75	8.23	8.42	10.16	10.90	11.57	11.74
15	10.01	10.54	10.52	5.82	6.00	8.21	8.68	8.97	10.24	11.31	11.55	11.52
16	10.10	10.55	10.03	6.05	6.04	8.28	8.79	8.59	9.71	10.87	11.89	11.48
17	9.68	10.61	10.48	5.63	6.06	7.93	8.82	8.71	9.85	10.91	11.61	11.89
18	9.72	11.00	10.07	5.38	6.09	8.36	8.84	9.11	9.94	10.92	11.59	11.50
19	10.18	10.84	10.55	5.44	---	8.37	8.62	8.58	10.37	11.01	12.00	12.00
20	9.82	10.87	10.15	5.50	---	8.45	9.11	8.74	10.49	11.45	12.03	12.00
21	9.86	10.88	10.24	4.99	6.37	8.20	8.68	8.61	10.15	11.11	12.04	11.68
22	10.30	10.52	10.29	5.30	---	8.67	9.04	9.18	10.63	11.52	11.69	11.67
23	9.87	10.89	10.14	5.24	---	8.25	8.52	9.26	10.61	11.12	12.11	11.74
24	10.31	10.46	9.56	4.84	---	8.10	8.31	9.19	10.69	11.51	12.20	12.18
25	9.99	10.21	8.84	4.89	---	8.06	8.42	9.41	10.66	11.17	11.83	11.84
26	10.03	10.70	9.14	5.39	---	8.05	8.07	8.94	10.54	11.25	11.86	11.73
27	10.49	10.70	9.09	5.06	7.21	8.70	8.22	8.89	10.38	11.59	11.83	12.10
28	10.12	10.40	9.63	5.36	6.88	8.25	8.67	8.88	10.41	11.50	11.86	11.70
29	10.47	10.48	9.69	4.96	---	8.69	8.24	8.91	10.44	11.11	11.87	12.05
30	10.02	10.45	9.62	5.00	---	8.09	8.08	9.10	10.80	11.19	12.21	12.06
31	10.50	---	9.09	5.06	---	8.16	---	9.12	---	11.62	11.63	---
MAX	10.50	11.00	10.55	9.01	7.21	8.70	9.11	9.41	10.80	11.62	12.21	12.18
CAL YR 2004	LOW 11.00											
WTR YR 2005	LOW 12.21											



403557081313600. Local Number, TU-4

LOCATION.—Latitude 40°35'57", longitude 81°31'36", Tuscarawas County, Hydrologic Unit 05040001, near Fire Department building in Strasburg, Ohio.

Owner: Village of Strasburg.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 42.5 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 920 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

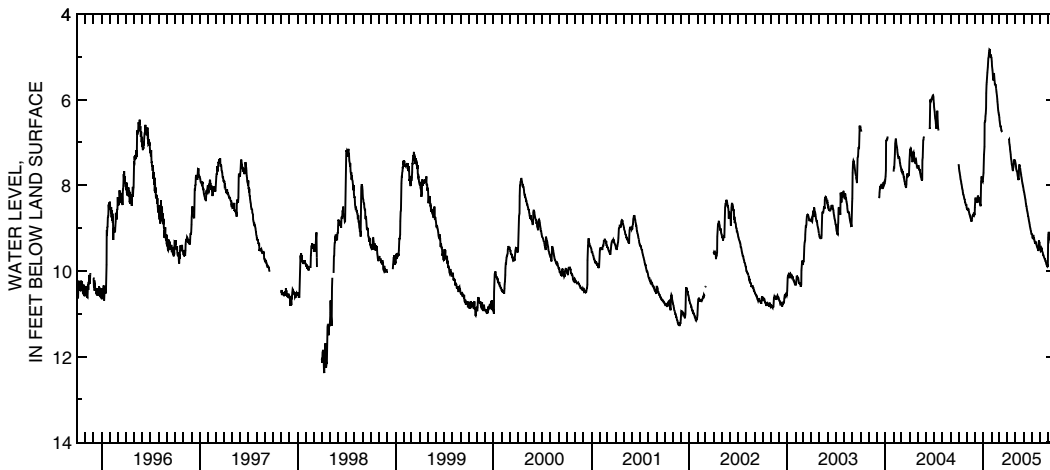
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 12.38 ft below land-surface datum, Apr. 10, 1998; minimum daily low, 4.05 ft below land-surface datum, July 13, 1969.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.51	8.54	8.51	7.80	5.02	6.36	---	7.47	8.12	9.14	9.44	9.15
2	7.56	8.55	8.39	7.71	5.12	6.42	---	7.50	8.15	9.16	9.47	9.09
3	7.61	8.58	8.31	7.61	5.21	6.48	---	7.56	8.16	9.18	9.51	9.11
4	7.67	8.54	8.31	7.29	5.31	6.53	---	7.61	8.21	9.23	9.54	9.14
5	7.71	8.56	8.36	7.10	5.40	6.60	---	7.64	8.25	9.24	9.53	9.18
6	7.76	8.55	8.37	6.54	5.48	6.63	6.94	7.67	8.30	9.16	9.47	9.23
7	7.81	8.56	8.36	6.51	5.55	6.63	6.93	7.68	8.34	9.18	9.48	9.26
8	7.85	8.61	8.41	6.50	5.45	6.68	7.01	7.73	8.40	9.23	9.53	9.29
9	7.88	8.64	8.39	6.39	5.40	6.71	7.05	7.77	8.43	9.24	9.56	9.33
10	7.92	8.67	8.30	6.33	5.40	6.72	7.11	7.81	8.48	9.27	9.57	9.36
11	7.95	8.69	8.27	6.20	5.46	6.75	7.17	7.86	8.49	9.30	9.59	9.41
12	7.98	8.70	8.24	5.85	5.55	6.76	7.22	7.86	8.54	9.33	9.63	9.42
13	8.03	8.73	8.27	5.64	5.64	---	7.28	7.88	8.58	9.36	9.63	9.47
14	8.06	8.76	8.31	5.60	5.64	---	7.34	7.59	8.61	9.30	9.65	9.48
15	8.09	8.79	8.31	5.48	5.66	---	7.40	7.53	8.64	9.33	9.67	9.51
16	8.13	8.81	8.31	5.37	5.66	---	7.44	7.53	8.67	9.34	9.69	9.53
17	8.17	8.82	8.37	5.33	5.69	---	7.50	7.55	8.72	9.36	9.71	9.54
18	8.21	8.85	8.36	5.24	5.75	---	7.53	7.59	8.73	9.39	9.72	9.56
19	8.22	8.81	8.40	5.10	5.82	---	7.58	7.62	8.78	9.41	9.72	9.59
20	8.24	8.78	8.43	5.04	5.85	---	7.62	7.67	8.81	9.44	9.76	9.60
21	8.28	8.73	8.45	5.01	5.91	---	7.65	7.71	8.85	9.45	9.76	9.63
22	8.30	8.72	8.49	4.92	5.99	---	7.65	7.76	8.88	9.47	9.78	9.66
23	8.33	8.72	8.28	4.91	6.05	---	7.59	7.79	8.91	9.48	9.81	9.66
24	8.34	8.70	7.91	4.83	6.12	---	7.56	7.83	8.96	9.49	9.83	9.66
25	8.39	8.70	7.85	4.84	6.18	---	7.49	7.88	9.00	9.53	9.86	9.67
26	8.40	8.67	7.79	4.91	6.26	---	7.41	7.91	9.01	9.51	9.87	9.60
27	8.43	8.64	7.85	4.97	6.30	---	7.41	7.95	9.06	9.33	9.84	9.60
28	8.45	8.66	7.86	5.01	6.33	---	7.41	7.98	9.08	9.29	9.87	9.56
29	8.46	8.69	7.91	4.95	---	---	7.43	8.01	9.11	9.34	9.89	9.53
30	8.46	8.67	7.92	4.97	---	---	7.44	8.04	9.14	9.34	9.89	9.51
31	8.51	---	7.88	5.01	---	---	---	8.09	---	9.41	9.23	---
MAX	8.51	8.85	8.51	7.80	6.33	6.76	7.65	8.09	9.14	9.53	9.89	9.67
CAL YR 2004	LOW 8.85											
WTR YR 2005	LOW 9.89											



403653081321800. Local Number, TU-1

LOCATION.—Latitude 40°36'53", longitude 81°32'18", Tuscarawas County, Hydrologic Unit 05040001, 1.3 mi north of Strasburg, Ohio. Owner: Ray Libert.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 4 in., depth 23 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 928.24 ft above sea level. Measuring point: Floor of instrument shelter 0.90 ft above land-surface datum.

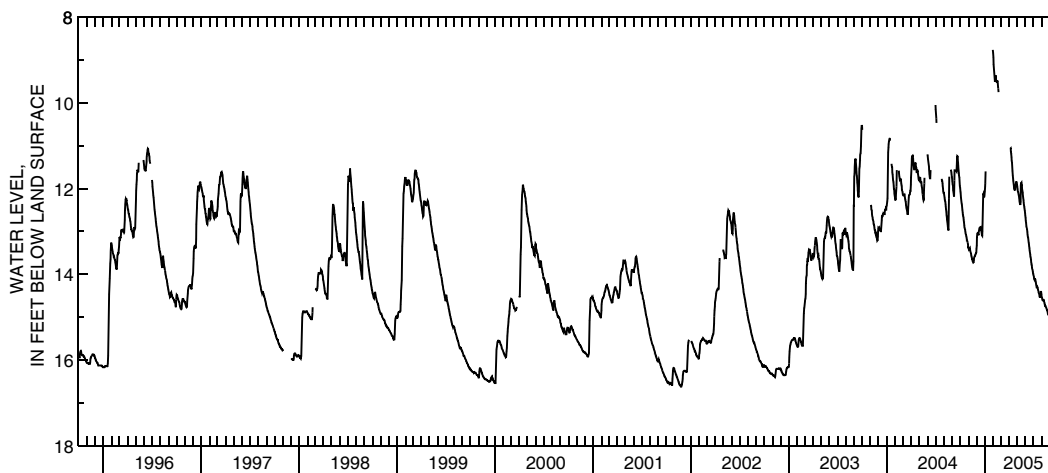
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 16.62 ft below land-surface datum, Nov. 24-26, 2001; minimum daily low, 6.64 ft below land-surface datum, July 14, 1969.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.99	13.36	13.40	12.07	8.83	---	---	11.90	12.63	13.99	14.52	14.19
2	12.07	13.41	13.33	11.96	8.94	---	---	11.95	12.68	14.04	14.55	13.97
3	12.10	13.43	13.13	11.87	9.10	---	---	12.01	12.75	14.06	14.57	13.89
4	12.21	13.42	13.05	11.60	9.21	---	---	12.06	12.80	14.11	14.60	13.93
5	12.27	13.41	13.05	---	9.35	---	---	12.08	12.88	14.13	14.61	13.99
6	12.34	13.39	13.04	---	9.39	---	11.07	12.09	12.91	14.11	14.60	14.05
7	12.38	13.45	13.07	---	9.49	---	11.06	12.15	12.95	14.11	14.58	14.09
8	12.42	13.48	13.09	---	9.49	---	11.13	12.19	13.01	14.13	14.61	14.13
9	12.50	13.50	13.03	---	9.45	---	11.19	12.22	13.07	14.17	14.62	14.18
10	12.56	13.52	12.98	---	9.38	---	11.27	12.29	13.12	14.19	14.65	14.23
11	12.61	13.55	12.94	---	9.36	---	11.35	12.35	13.15	14.24	14.67	14.29
12	12.64	13.58	12.92	---	9.48	---	11.39	12.36	13.19	14.27	14.69	14.31
13	12.68	13.61	12.91	---	9.49	---	11.51	12.38	13.25	14.31	14.73	14.35
14	12.73	13.64	12.93	---	9.51	---	11.59	12.31	13.30	14.31	14.73	14.40
15	12.79	13.65	12.93	---	9.51	---	11.69	11.92	13.34	14.29	14.74	14.43
16	12.86	13.68	12.92	---	9.50	---	11.77	11.87	13.39	14.30	14.75	14.44
17	12.92	13.70	12.95	---	9.48	---	11.82	11.86	13.44	14.32	14.77	14.47
18	12.94	13.72	12.94	---	9.54	---	11.88	11.91	13.49	14.36	14.79	14.50
19	12.96	13.73	13.01	---	9.63	---	11.94	11.92	13.54	14.39	14.81	14.52
20	13.00	13.72	13.02	---	9.66	---	12.01	12.01	13.58	14.41	14.83	14.55
21	13.04	13.67	13.09	---	9.75	---	12.03	12.05	13.61	14.44	14.84	14.58
22	13.07	13.61	13.10	---	---	---	12.03	12.09	13.67	14.46	14.85	14.61
23	13.09	13.59	13.00	---	---	---	12.03	12.15	13.72	14.48	14.89	14.62
24	13.12	13.58	12.57	---	---	---	12.02	12.22	13.76	14.50	14.91	14.62
25	13.15	13.57	12.29	---	---	---	11.97	12.27	13.79	14.53	14.94	14.63
26	13.19	13.56	12.13	---	---	---	11.91	12.33	13.85	14.53	14.95	14.63
27	13.22	13.53	12.11	---	9.82	---	11.85	12.39	13.89	14.52	14.95	14.63
28	13.24	13.52	12.16	---	---	---	11.85	12.43	13.91	14.46	14.97	14.57
29	13.26	13.51	12.17	---	---	---	11.85	12.47	13.94	14.41	14.97	14.54
30	13.30	13.49	12.18	---	---	---	11.87	12.51	13.98	14.41	14.98	14.53
31	13.39	---	12.15	8.76	---	---	---	12.58	---	14.47	14.83	---
MAX	13.39	13.73	13.40	12.07	9.82	---	12.03	12.58	13.98	14.53	14.98	14.63
CAL YR 2004		LOW 13.73										
WTR YR 2005		LOW 14.98										



403823081324200. Local Number, TU-5

LOCATION.—Latitude 40°38'23", longitude 81°32'42", Tuscarawas County, Hydrologic Unit 05040001, near Strasburg, Ohio. Owner: City of Canton.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 937.93 ft above sea level. Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

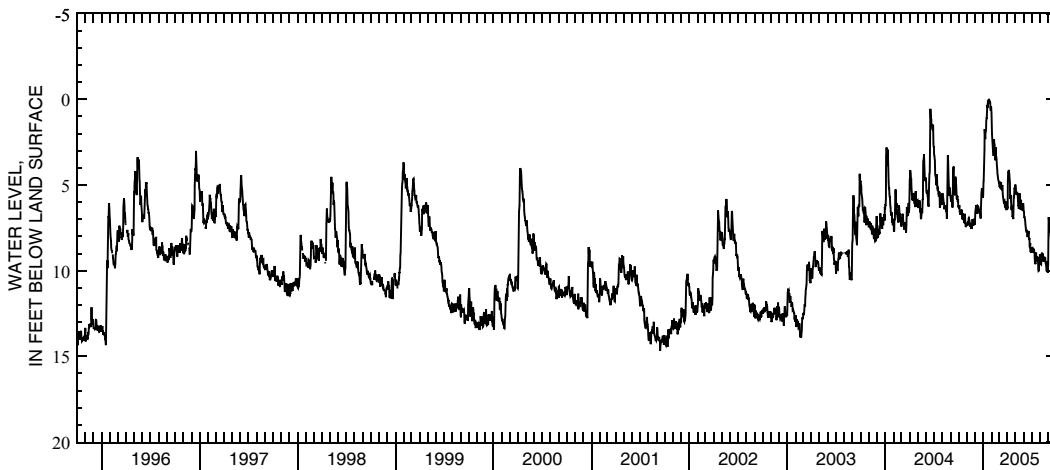
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 14.67 ft below land-surface datum, Sept. 14, 2001; minimum daily low, 0.03 ft above land-surface datum, Jan. 23, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.32	7.31	7.26	5.58	0.80	4.95	6.33	4.98	6.53	8.79	9.05	8.09
2	6.20	7.35	6.84	4.80	1.49	4.77	6.34	5.21	6.56	8.66	9.16	6.89
3	6.36	7.40	6.53	4.76	2.05	5.11	4.80	5.39	6.87	8.76	9.33	7.11
4	6.17	7.14	6.45	3.75	2.44	5.04	4.28	5.52	6.87	8.79	9.63	7.51
5	6.56	7.25	6.17	2.96	2.77	5.19	4.28	5.57	6.93	8.74	9.65	7.68
6	6.63	7.25	6.26	1.74	2.97	5.08	4.12	5.46	7.06	8.88	9.01	7.65
7	6.72	6.94	6.24	2.04	3.00	5.13	4.31	5.45	7.32	8.94	8.99	7.68
8	6.50	6.92	6.68	2.32	3.30	4.84	4.34	5.48	7.47	8.72	9.01	7.85
9	6.74	6.99	6.65	2.00	2.49	5.26	4.59	5.55	7.62	8.84	9.01	7.91
10	6.48	7.10	6.57	1.90	2.33	5.05	4.89	5.82	7.71	8.91	9.03	8.15
11	6.65	7.29	6.42	1.79	2.59	5.23	5.63	6.18	7.77	9.01	9.08	8.22
12	6.44	7.35	6.24	1.27	2.63	5.31	5.82	6.18	7.61	9.49	9.08	8.07
13	6.69	7.34	6.26	1.10	2.97	5.01	5.57	6.39	7.77	9.53	9.44	8.27
14	6.98	7.44	6.35	1.10	3.39	5.31	5.75	6.26	7.91	9.60	9.48	8.66
15	6.94	7.32	6.41	0.70	3.56	5.61	6.11	5.57	8.04	9.63	9.20	8.78
16	7.02	7.35	6.47	0.32	2.80	5.77	6.47	5.49	7.88	8.99	9.27	8.64
17	6.65	7.53	6.56	0.50	3.24	5.83	6.29	5.60	7.97	8.99	9.26	8.45
18	6.94	7.29	6.68	0.16	3.35	5.94	6.21	5.79	7.81	9.29	9.41	8.33
19	6.96	7.55	6.61	0.19	3.43	6.10	6.59	6.30	7.69	9.47	9.33	8.91
20	6.99	7.46	6.51	0.23	3.58	5.97	6.89	6.44	8.01	9.23	9.31	8.92
21	7.16	7.29	6.78	0.20	3.91	5.94	6.80	5.90	8.21	9.23	9.44	8.70
22	7.23	6.99	6.96	0.12	4.11	6.19	6.81	5.91	8.10	9.18	9.57	8.87
23	7.17	7.28	6.66	-0.03	4.35	6.24	6.99	6.32	8.55	9.48	9.66	9.21
24	6.99	7.29	6.14	0.23	4.47	6.21	6.21	6.36	8.69	9.38	9.78	9.24
25	6.69	7.38	5.48	0.14	4.54	6.25	5.69	6.32	8.39	9.60	10.01	9.14
26	7.19	7.32	5.42	0.14	4.71	6.25	5.70	6.39	8.87	10.02	10.02	9.00
27	7.28	7.11	5.18	0.20	4.77	6.03	5.24	6.50	8.91	10.01	9.65	9.01
28	7.46	7.13	5.30	0.49	4.80	6.31	5.15	6.39	8.70	9.23	9.48	8.58
29	7.29	7.16	5.48	0.67	---	6.48	5.24	6.15	8.94	9.57	9.95	8.49
30	7.35	7.32	5.52	0.43	---	5.94	5.31	6.06	8.78	9.62	10.13	8.87
31	7.26	---	5.76	0.47	---	6.21	---	6.29	---	9.09	9.62	---
MAX	7.46	7.55	7.26	5.58	4.80	6.48	6.99	6.50	8.94	10.02	10.13	9.24
CAL YR 2004	LOW 7.80											
WTR YR 2005	LOW 10.13											



Ground-Water Records—Union County

401826083255200. Local Number, U-4

LOCATION.—Latitude 40°18'26", longitude 83°25'52", Union County, Hydrologic Unit 05060001, 2.6 mi southeast of Raymond, Ohio. Owner: State of Ohio.
 AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled test artesian well, diameter 12 in., depth 350 ft, cased to 37 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 1,040 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

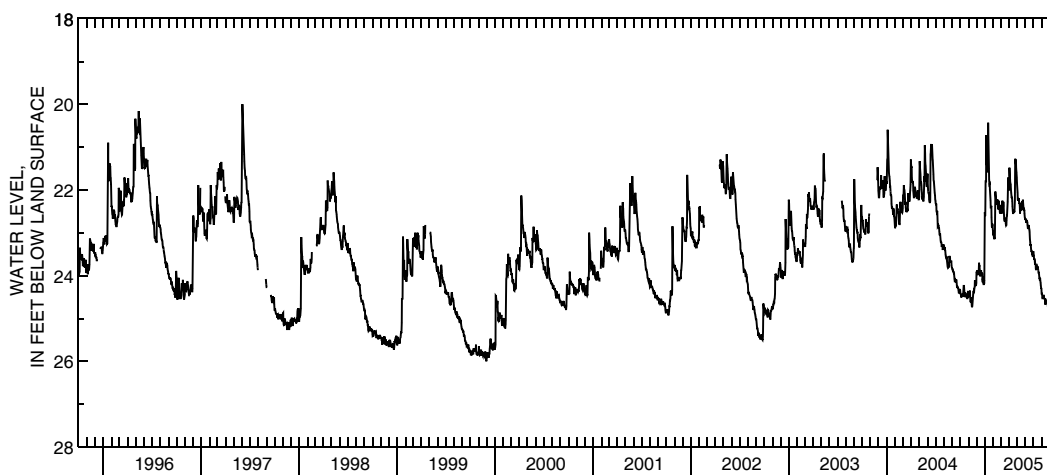
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—February 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 26.00 ft below land-surface datum, Nov. 30, 1999; minimum daily low, 19.32 ft below land-surface datum, Feb. 24, 1975.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.35	24.48	23.93	22.52	23.01	22.35	22.01	21.83	22.70	23.43	24.42	24.20
2	24.42	24.47	23.93	22.61	23.00	22.49	21.81	21.95	22.68	23.52	24.42	24.32
3	24.44	24.50	23.88	22.59	23.04	22.52	21.48	22.07	22.67	23.54	24.47	24.41
4	24.46	24.38	23.90	21.80	23.10	22.49	21.66	22.22	22.71	23.63	24.53	24.48
5	24.51	24.41	23.99	21.80	23.15	22.55	21.75	22.25	22.77	23.60	24.53	24.53
6	24.48	24.35	23.96	20.72	23.13	22.52	21.83	22.22	22.72	23.64	24.47	24.54
7	24.47	24.50	23.91	21.36	23.12	22.25	21.87	22.19	22.72	23.75	24.47	24.54
8	24.44	24.60	23.97	21.42	22.76	22.34	21.97	22.28	22.76	23.72	24.53	24.50
9	24.44	24.62	23.90	21.42	22.04	22.37	22.07	22.31	22.82	23.75	24.51	24.53
10	24.47	24.56	23.70	21.57	22.13	22.37	22.14	22.31	22.89	23.85	24.53	24.57
11	24.47	24.51	23.78	21.57	22.16	22.28	22.19	22.40	22.89	23.87	24.54	24.65
12	24.41	24.60	23.78	20.87	22.28	22.40	22.16	22.55	22.82	23.81	24.53	24.65
13	24.29	24.72	23.90	20.43	22.34	22.58	22.28	22.47	22.85	23.79	24.57	24.62
14	24.24	24.74	24.00	20.96	22.25	22.67	22.38	22.32	22.85	23.78	24.65	24.62
15	24.24	24.71	24.02	21.30	22.25	22.72	22.49	22.34	22.89	23.82	24.68	24.69
16	24.36	24.59	23.93	21.50	22.25	22.72	22.56	22.40	22.94	23.78	24.60	24.66
17	24.47	24.54	23.91	21.75	22.22	22.65	22.53	22.46	22.98	23.81	24.59	24.27
18	24.50	24.45	23.87	21.87	22.34	22.67	22.52	22.46	23.15	23.82	24.60	24.36
19	24.39	24.38	23.99	21.86	22.44	22.68	22.50	22.44	23.22	23.87	24.62	24.36
20	24.44	24.36	23.97	21.99	22.44	22.79	22.49	22.26	23.30	23.93	24.63	24.36
21	24.48	24.39	23.93	22.11	22.25	22.83	22.52	22.32	23.27	23.93	24.62	24.38
22	24.50	24.38	23.96	22.25	22.35	22.82	22.46	22.34	23.37	23.97	24.62	24.35
23	24.42	24.29	24.09	22.41	22.37	22.70	22.25	22.23	23.42	24.05	24.65	24.36
24	24.44	24.26	24.08	22.41	22.38	22.59	21.29	22.34	23.42	24.05	24.71	23.90
25	24.50	24.11	24.14	22.37	22.40	22.59	21.29	22.43	23.45	24.11	24.71	23.58
26	24.50	24.14	24.15	22.64	22.53	22.43	21.36	22.43	23.49	24.06	24.66	23.46
27	24.53	24.14	24.20	22.85	22.55	22.28	21.35	22.49	23.52	24.12	24.65	23.12
28	24.53	24.22	24.20	22.88	22.37	22.14	21.50	22.46	23.51	24.17	24.77	23.16
29	24.42	24.24	24.11	22.79	---	21.71	21.59	22.55	23.52	24.22	24.80	23.28
30	24.36	24.17	24.12	22.83	---	21.74	21.71	22.64	23.51	24.29	24.74	23.30
31	24.47	---	23.90	22.91	---	21.93	---	22.68	---	24.30	24.32	---
MAX	24.53	24.74	24.20	22.91	23.15	22.83	22.56	22.68	23.52	24.30	24.80	24.69
CAL YR 2004	LOW 24.74											
WTR YR 2005	LOW 24.80											



402010083321900. Local Number, U-5

LOCATION.—Latitude 40°20'10", longitude 83°32'19", Union County, Hydrologic Unit 05060001, east of East Liberty, Ohio. Owner: Honda of America.

AQUIFER.—Limestone of Silurian Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 145 ft, cased to 98 ft.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface is 1085 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 4 ft. above land-surface datum.

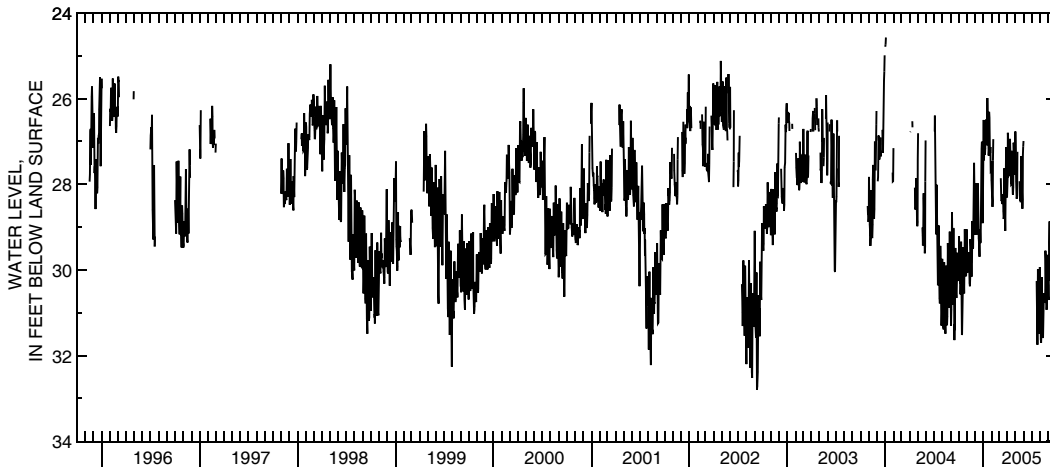
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—September 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 33.25 ft below land-surface datum, Oct. 10, 1991; minimum daily low, 23.06 ft below land-surface datum, Apr. 29, 1993.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.24	29.32	29.00	27.46	27.91	---	28.06	26.77	---	---	30.57	30.62
2	30.07	29.65	28.93	26.96	28.09	---	27.82	27.10	---	---	30.96	30.70
3	29.21	29.97	29.18	26.50	28.22	---	26.80	27.62	---	---	31.33	30.30
4	29.44	29.87	28.91	27.44	28.53	---	26.96	27.93	---	---	31.61	29.35
5	29.87	30.06	27.98	27.03	28.38	---	27.31	28.17	---	---	31.70	28.87
6	30.29	29.90	28.28	27.11	27.44	---	27.39	28.34	---	---	31.36	29.55
7	30.32	29.60	28.60	27.31	26.95	27.86	27.65	28.28	---	---	30.17	29.87
8	30.57	29.59	29.09	27.17	---	28.21	27.78	27.24	---	---	30.55	30.06
9	30.31	29.96	29.15	27.02	---	28.36	27.77	---	---	---	30.92	30.25
10	29.34	30.19	29.15	26.55	---	28.36	26.94	---	---	---	31.21	29.90
11	29.59	30.30	28.89	26.49	---	28.38	27.01	---	---	---	31.46	29.11
12	31.12	30.38	27.98	26.66	---	28.46	27.33	---	---	---	31.59	29.64
13	31.52	30.16	28.34	26.66	---	28.39	27.64	---	---	---	31.27	30.00
14	31.49	29.28	28.89	27.09	---	28.24	27.77	---	---	---	30.85	30.38
15	30.90	29.44	29.26	26.96	---	28.38	28.00	---	---	---	30.55	30.93
16	30.58	29.85	29.37	25.99	---	28.39	27.99	27.93	---	---	30.65	31.01
17	29.48	29.94	29.49	26.24	---	28.63	27.22	28.21	---	---	30.73	30.99
18	29.51	30.16	29.69	26.70	---	28.81	27.51	28.38	---	---	30.74	30.60
19	29.84	30.05	29.41	26.72	---	28.74	27.76	28.36	---	30.26	30.76	29.99
20	30.25	29.82	29.05	27.00	---	27.63	27.98	28.40	---	30.61	30.47	30.21
21	30.35	28.86	29.37	27.33	---	28.04	28.24	28.40	---	31.40	29.55	30.29
22	30.55	29.19	29.34	27.21	---	28.39	28.23	27.35	---	31.75	29.76	30.41
23	30.15	29.50	28.86	26.31	---	28.70	28.07	27.44	---	31.33	30.36	30.40
24	29.05	29.48	28.02	26.45	---	29.09	27.03	27.95	---	29.99	30.77	30.09
25	29.37	29.25	27.57	26.81	---	28.82	27.05	28.05	---	30.31	30.93	28.92
26	29.72	28.49	27.17	27.25	---	27.61	27.25	28.31	---	30.72	30.83	28.82
27	29.91	27.95	27.01	27.25	---	27.14	27.52	28.57	---	31.23	30.48	29.22
28	30.10	27.50	27.86	27.13	---	27.36	27.71	28.35	---	31.34	29.65	29.15
29	30.15	28.27	28.63	27.69	---	28.04	27.78	27.32	---	31.48	30.08	29.29
30	29.97	28.62	28.91	27.68	---	28.11	27.73	27.12	---	31.12	30.24	29.39
31	29.05	---	28.22	27.47	---	28.31	---	26.99	---	29.93	30.36	---
MAX	31.52	30.38	29.69	27.69	28.53	29.09	28.24	28.57	---	31.75	31.70	31.01
CAL YR 2004	LOW 31.64											
WTR YR 2005	LOW 31.75											



Ground-Water Records—Vinton County

391452082282900. Local Number, V-1

LOCATION.—Latitude 39°14'52", longitude 82°28'29", Vinton County, Hydrologic Unit 05090101, State Highway garage in McArthur, Ohio. Owner: Vinton County School Board.

AQUIFER.—Sandstone of Mississippian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 218 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 730 ft above sea level (from topographic map). Measuring Point: Top of platform 2.50 ft below land-surface datum.

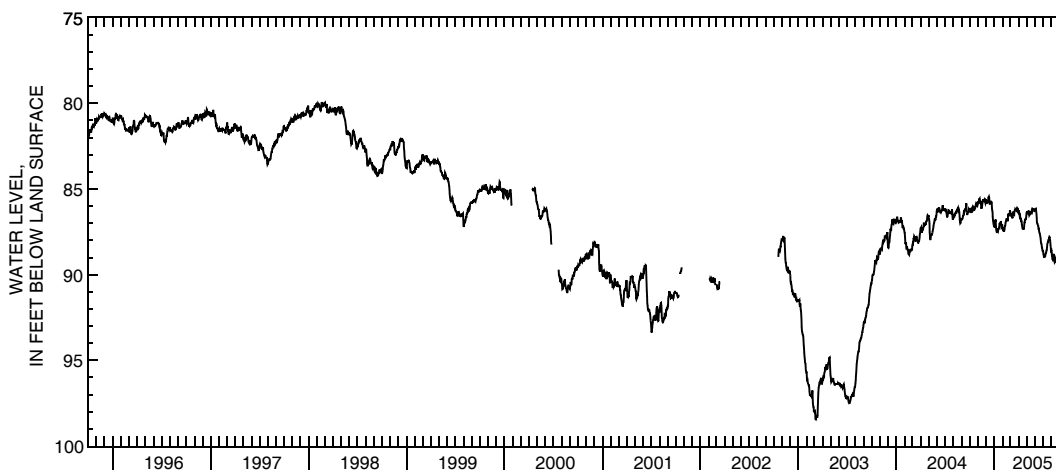
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—September 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 98.45 ft below land-surface datum, Mar. 7, 2003; minimum daily low, 49.55 ft below land-surface datum, Mar. 20, 1963.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86.28	85.81	85.61	87.21	87.32	86.30	86.41	86.42	86.29	88.63	88.61	88.49
2	86.24	85.72	85.69	87.20	87.32	86.42	86.24	86.35	86.22	88.66	88.58	88.54
3	86.30	85.84	85.76	87.07	87.43	86.54	86.31	86.35	86.18	88.79	88.71	88.50
4	86.15	85.75	85.77	86.88	87.44	86.54	86.43	86.38	86.15	88.85	88.90	88.40
5	86.28	85.61	85.81	86.88	87.40	86.55	86.54	86.48	86.14	88.80	88.96	88.41
6	86.35	85.59	85.81	86.78	87.43	86.56	86.60	86.43	86.25	88.95	89.11	88.49
7	86.40	85.56	85.67	87.13	87.44	86.43	86.56	86.29	86.41	88.95	89.13	88.55
8	86.32	85.70	85.76	87.38	87.35	86.55	86.67	86.36	86.66	88.94	89.00	88.56
9	86.21	85.80	85.76	87.43	87.23	86.68	86.74	86.33	86.93	88.94	88.94	88.61
10	86.26	85.81	85.50	87.50	87.13	86.71	86.74	86.27	87.00	88.91	88.86	88.56
11	86.29	85.69	85.46	87.56	87.16	86.49	86.87	86.44	87.03	88.81	88.79	88.57
12	86.26	85.85	85.54	87.37	86.98	86.38	86.86	86.51	87.07	88.75	88.93	88.53
13	86.15	86.06	85.52	87.29	86.91	86.39	86.90	86.49	87.14	88.73	89.12	88.50
14	86.02	86.15	85.80	87.44	86.87	86.43	87.08	86.40	87.18	88.66	89.11	88.50
15	86.03	86.09	85.90	87.47	86.77	86.51	87.18	86.35	87.32	88.57	89.28	88.55
16	86.15	86.04	85.83	87.37	86.77	86.52	87.29	86.35	87.32	88.54	89.25	88.49
17	86.24	85.88	85.78	87.34	86.77	86.34	87.32	86.44	87.42	88.37	89.13	88.51
18	86.23	85.76	85.78	87.30	86.77	86.24	87.33	86.43	87.56	88.16	89.07	88.48
19	86.10	85.72	85.70	87.19	86.85	86.24	87.33	86.37	87.60	88.12	89.03	88.39
20	86.13	85.61	85.76	87.02	86.85	86.18	87.31	86.31	87.65	88.10	88.92	88.30
21	86.13	85.70	85.76	87.01	86.53	86.21	87.31	86.35	87.75	87.98	88.91	88.36
22	86.08	85.70	85.79	86.99	86.55	86.22	87.25	86.24	87.86	87.96	88.87	88.19
23	86.00	85.66	86.11	87.08	86.55	86.18	86.96	86.14	87.96	87.94	88.80	88.35
24	85.86	85.62	86.26	87.09	86.48	86.28	86.95	86.15	88.16	87.88	88.89	88.48
25	85.83	85.67	86.35	86.88	86.48	86.29	86.80	86.17	88.20	87.80	88.94	88.53
26	85.86	85.71	86.61	86.94	86.52	86.18	86.76	86.23	88.22	87.83	88.95	88.40
27	85.93	85.56	86.86	87.20	86.52	86.20	86.78	86.23	88.39	87.95	88.92	88.49
28	85.99	85.75	86.93	87.28	86.30	86.12	86.78	86.21	88.45	88.01	88.95	88.46
29	86.01	85.84	87.03	87.26	---	86.15	86.73	86.27	88.53	88.11	88.84	88.66
30	85.87	85.78	87.15	87.07	---	86.22	86.56	86.27	88.66	88.34	88.74	88.86
31	85.76	---	87.16	87.21	---	86.39	---	86.30	---	88.55	88.46	---
MAX	86.40	86.15	87.16	87.56	87.44	86.71	87.33	86.51	88.66	88.95	89.28	88.86
CAL YR 2004	LOW 88.85											
WTR YR 2005	LOW 89.28											



392016082272400. Local Number, V-100

LOCATION.—Latitude 39°20'16", longitude 82°27'24", Vinton County, Hydrologic Unit 05090101, 6 mi north of McArthur, Ohio. Owner: State of Ohio.

AQUIFER.—Sandstone of Mississippian Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 6 in., depth 211 ft, cased to 180 ft.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 770 ft above sea level (from topographic map). Measuring Point: Top of platform 3.00 ft below land-surface datum.

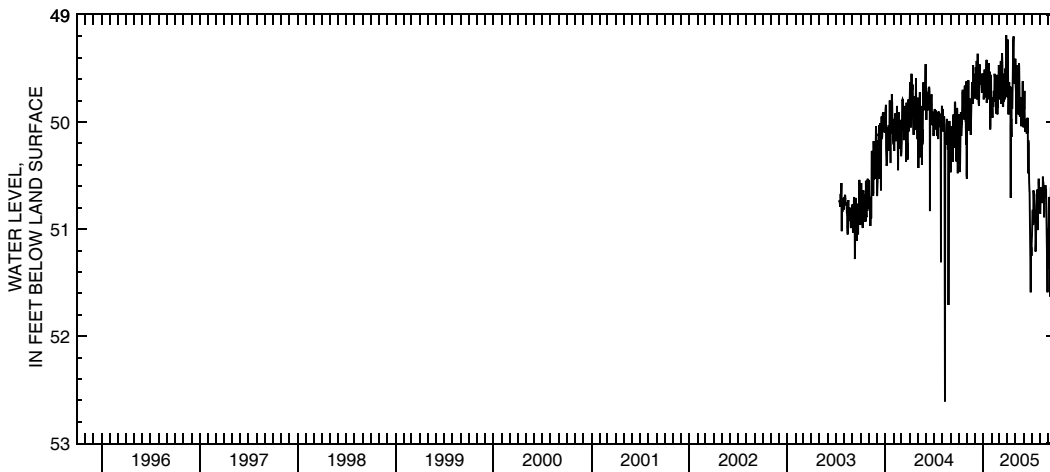
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—March 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 52.61 ft below land-surface datum, Aug. 11, 2004; minimum daily low, 49.19 ft below land-surface datum, Mar. 28, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.10	50.53	49.78	49.62	49.90	49.48	49.77	49.41	49.88	51.12	50.85	51.37
2	49.93	49.84	49.71	49.61	49.89	49.55	49.23	49.65	49.84	51.06	50.85	51.19
3	49.94	49.92	49.70	49.79	49.83	49.79	49.43	49.73	49.88	50.93	50.66	50.70
4	50.06	49.65	49.49	49.73	49.96	49.67	49.69	50.02	49.71	50.84	50.61	50.71
5	50.46	49.84	49.54	49.52	49.80	49.60	49.93	49.78	50.01	50.82	50.69	50.76
6	50.46	49.61	49.67	49.51	49.77	49.57	49.83	49.79	50.09	50.96	50.71	50.95
7	50.34	49.64	49.43	49.66	49.86	49.43	49.64	49.47	50.04	50.64	50.73	51.63
8	50.17	49.99	49.79	49.65	49.75	49.61	49.63	49.51	50.09	50.66	50.63	51.12
9	49.91	50.08	49.51	49.65	49.71	49.83	49.85	49.77	50.03	50.78	50.75	50.99
10	49.92	49.94	49.37	49.77	49.76	49.68	49.67	49.80	49.97	50.67	50.75	50.61
11	50.13	49.79	49.37	49.55	49.81	49.45	49.82	49.83	49.99	50.78	50.51	50.70
12	50.05	49.79	49.37	49.50	49.55	49.36	49.67	49.93	50.11	50.94	50.55	50.95
13	50.01	49.97	49.53	49.42	49.58	49.47	50.71	49.77	50.00	50.86	50.57	50.89
14	49.89	49.98	49.81	49.82	49.56	49.67	50.03	49.45	50.10	50.91	50.60	50.83
15	49.73	50.12	49.83	49.75	49.67	49.86	49.97	49.50	49.96	51.21	50.67	50.91
16	49.70	49.97	49.85	49.67	49.69	49.85	50.14	49.81	50.10	51.15	50.89	51.14
17	49.79	49.90	49.72	49.74	49.88	49.75	49.73	49.95	50.48	50.97	50.82	50.51
18	49.97	49.79	49.46	49.79	49.92	49.81	49.87	49.85	50.17	50.91	50.61	50.53
19	49.88	49.83	49.53	49.55	49.74	49.55	49.87	49.85	50.20	50.78	50.63	50.87
20	49.89	49.63	49.60	49.58	49.73	49.58	49.81	49.77	50.33	50.72	50.71	50.83
21	49.97	49.69	49.58	49.50	49.56	49.73	49.68	49.80	50.55	50.75	50.59	50.77
22	49.97	49.65	49.65	49.45	49.77	49.79	49.56	49.96	50.64	50.63	50.67	50.77
23	49.73	49.83	49.57	49.67	49.93	49.57	49.24	50.04	50.65	51.01	50.63	50.82
24	49.66	49.47	49.56	49.67	49.69	49.58	49.20	49.87	50.79	50.67	50.67	50.69
25	49.95	49.56	49.55	49.53	49.87	49.50	49.52	49.96	50.88	50.83	50.74	50.65
26	49.95	49.56	49.67	49.57	49.64	49.54	49.47	49.79	50.96	50.57	50.84	50.67
27	49.99	49.55	49.72	50.07	49.66	49.45	49.55	49.77	51.59	50.53	50.95	50.74
28	49.99	49.67	49.72	50.03	49.47	49.19	49.64	49.62	51.22	50.62	51.12	50.97
29	50.21	49.69	49.55	49.69	---	49.51	49.56	49.69	51.17	50.71	51.59	50.85
30	49.62	49.74	49.65	49.56	---	49.47	49.57	49.94	51.25	50.81	51.22	50.91
31	50.49	---	49.55	49.79	---	49.46	---	50.05	---	50.71	51.01	---
MAX	50.49	50.53	49.85	50.07	49.96	49.86	50.71	50.05	51.59	51.21	51.59	51.63
CAL YR 2004	LOW 52.61											
WTR YR 2005	LOW 51.63											



Ground-Water Records—Warren County

392119084142000. Local Number, W-6

LOCATION.—Latitude 39°21'19", longitude 84°14'20", Warren County, Hydrologic Unit 05090202, southeast of Kings Mills, Ohio Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled observation well, diameter 6 in., depth 48 ft., cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 619 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

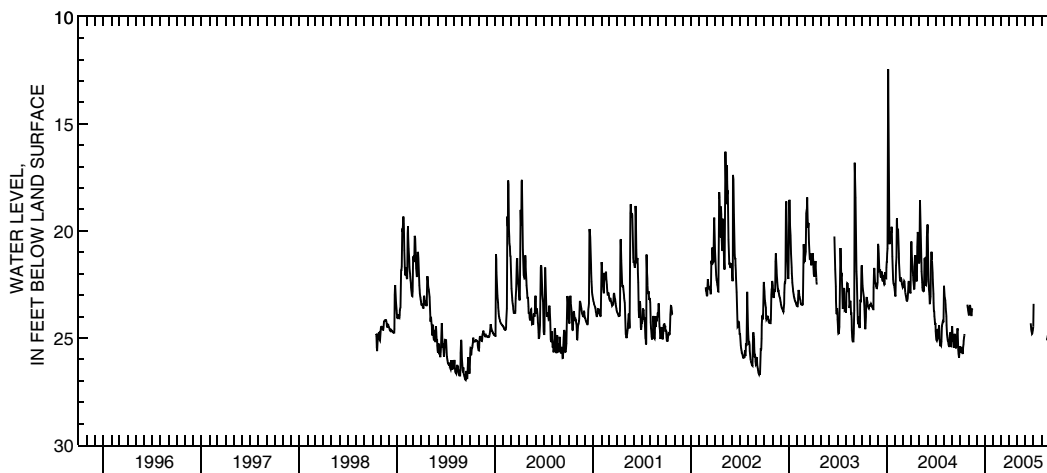
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—October 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 26.97 ft below land-surface datum, Sept. 13, 1999; minimum daily low, 12.45 ft below land-surface datum, Jan. 6, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.69	23.83	---	---	---	---	---	---	---	24.47	---	23.80
2	25.65	23.92	---	---	---	---	---	---	---	23.41	---	23.52
3	25.41	23.92	---	---	---	---	---	---	---	---	---	23.71
4	25.65	23.80	---	---	---	---	---	---	---	---	---	24.07
5	25.61	23.60	---	---	---	---	---	---	---	---	---	24.33
6	25.45	23.46	---	---	---	---	---	---	---	---	---	24.52
7	25.61	23.52	---	---	---	---	---	---	---	---	---	24.66
8	25.49	23.60	---	---	---	---	---	---	---	---	---	24.78
9	25.69	23.72	---	---	---	---	---	---	---	---	---	24.79
10	25.75	23.84	---	---	---	---	---	---	---	---	---	24.79
11	25.63	23.94	---	---	---	---	---	---	---	---	---	24.76
12	25.40	23.94	---	---	---	---	---	---	---	---	---	24.76
13	25.31	23.76	---	---	---	---	---	---	---	---	---	24.76
14	25.14	23.63	---	---	---	---	---	---	---	---	---	24.80
15	25.00	23.68	---	---	---	---	---	---	---	---	---	24.83
16	24.90	---	---	---	---	---	---	---	---	---	---	24.85
17	24.82	---	---	---	---	---	---	---	---	---	---	24.85
18	---	---	---	---	---	---	---	---	---	---	---	24.71
19	---	---	---	---	---	---	---	---	---	---	---	24.56
20	---	---	---	---	---	---	---	---	---	---	---	24.52
21	---	---	---	---	---	---	---	---	24.32	---	25.12	24.32
22	---	---	---	---	---	---	---	---	24.48	---	25.02	24.19
23	---	---	---	---	---	---	---	---	24.60	---	25.05	---
24	---	---	---	---	---	---	---	---	24.68	---	25.11	---
25	---	---	---	---	---	---	---	---	24.76	---	25.16	---
26	---	---	---	---	---	---	---	---	24.81	---	---	---
27	---	---	---	---	---	---	---	---	24.79	---	---	---
28	23.45	---	---	---	---	---	---	---	24.70	---	---	24.06
29	23.56	---	---	---	---	---	---	---	24.65	---	25.16	24.03
30	23.66	---	---	---	---	---	---	---	24.54	---	25.16	24.03
31	23.74	---	---	---	---	---	---	---	---	---	24.75	---
MAX	25.75	23.94	---	---	---	---	---	---	24.81	24.47	25.16	24.85
CAL YR 2004	LOW 25.93											
WTR YR 2005	LOW 25.75											



392517084181700. Local Number, W-7

LOCATION.—Latitude 39°25'17", longitude 84°18'17", Warren County, Hydrologic Unit 05090202, at Lebanon Correctional Institute, Lebanon, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 3 in., depth 40 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 665 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

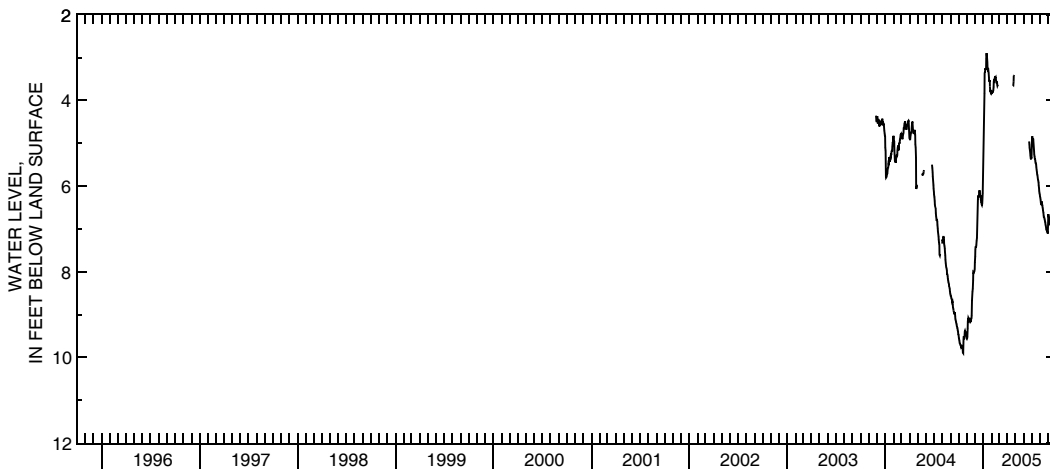
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—December 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 9.90 ft below land-surface datum, Oct. 18, 2004; minimum daily low, 2.90 ft below land-surface datum, Jan. 13, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.47	9.57	7.78	5.12	3.84	---	---	---	---	5.16	6.24	6.66
2	9.55	9.55	7.65	4.88	3.83	---	---	---	---	4.90	6.28	6.71
3	9.57	9.52	7.48	4.70	3.81	---	---	---	---	4.84	6.33	6.75
4	9.61	9.33	7.41	4.25	3.81	---	---	---	---	4.90	6.38	6.80
5	9.66	9.16	7.44	3.84	3.81	---	---	---	---	4.92	6.43	6.85
6	9.69	9.08	7.38	3.36	3.79	---	---	---	---	4.92	6.44	6.88
7	9.71	9.10	7.28	3.34	3.77	---	---	---	---	4.98	6.36	6.90
8	9.71	9.16	7.21	3.28	3.69	---	---	---	---	5.08	6.42	6.91
9	9.73	9.18	7.04	3.25	3.57	---	---	---	---	5.19	6.46	6.92
10	9.76	9.14	6.70	3.29	3.52	---	---	---	---	5.27	6.50	6.94
11	9.78	9.10	6.45	3.27	3.53	---	---	---	---	5.31	6.54	6.98
12	9.77	9.08	6.31	3.02	3.50	---	---	---	---	5.37	6.58	7.00
13	9.72	9.15	6.22	2.90	3.52	---	---	---	---	5.37	6.62	7.01
14	9.73	9.17	6.25	2.94	3.47	---	---	---	---	5.42	6.69	7.04
15	9.75	9.16	6.25	3.00	3.47	---	---	---	---	5.46	6.73	7.07
16	9.83	9.13	6.19	3.11	3.46	---	---	---	---	5.47	6.74	7.09
17	9.89	9.10	6.16	3.23	3.49	---	---	---	---	5.51	6.76	7.11
18	9.90	9.08	6.10	3.27	3.55	---	---	---	---	5.56	6.78	7.16
19	9.59	9.03	6.17	3.25	3.59	---	---	---	---	5.63	6.82	7.18
20	9.51	8.67	6.18	3.30	3.59	---	---	---	---	5.68	6.85	7.15
21	9.53	8.53	6.24	3.36	3.56	---	---	---	4.96	5.72	6.89	7.08
22	9.54	8.47	6.24	3.47	3.64	---	3.64	---	5.04	5.75	6.93	7.07
23	9.52	8.40	6.31	3.56	3.66	---	3.65	---	5.11	5.81	6.97	7.13
24	9.39	8.21	6.37	3.55	3.64	---	3.57	---	5.17	5.84	7.02	7.15
25	9.38	8.02	6.38	3.53	---	---	3.43	---	5.23	5.88	7.04	7.16
26	9.41	8.03	6.43	3.68	---	---	3.41	---	5.29	5.92	7.04	7.12
27	9.46	8.01	6.45	3.79	---	---	---	---	5.35	5.99	7.05	7.06
28	9.48	8.00	6.41	3.80	---	---	---	---	5.38	6.05	7.09	7.02
29	9.46	7.99	6.33	3.77	---	---	---	---	5.34	6.12	7.10	6.99
30	9.49	7.94	6.17	3.78	---	---	---	---	5.36	6.17	7.10	7.01
31	9.56	---	5.61	3.80	---	---	---	---	---	6.21	6.77	---
MAX	9.90	9.57	7.78	5.12	3.84	---	3.65	---	5.38	6.21	7.10	7.18
CAL YR 2004		LOW 9.90										
WTR YR 2005		LOW 9.90										



392517084181701. Local Number, W-8

LOCATION.—Latitude 39°25'17", longitude 84°18'17", Warren County, Hydrologic Unit 05090202, at Lebanon Correctional Institute, Lebanon, Ohio. Owner: State of Ohio.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 3 in., depth 228 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 665 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

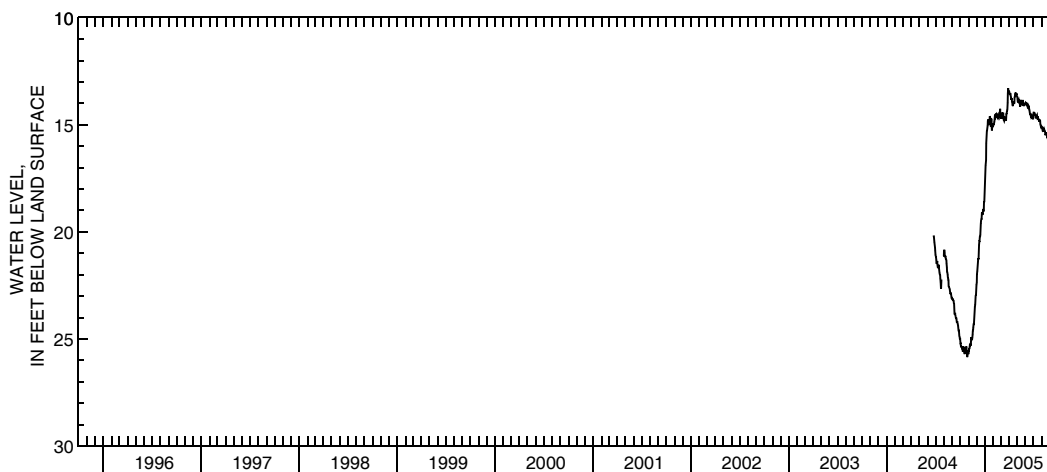
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—July 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 25.82 ft below land-surface datum, Oct. 27-28, 2004; minimum daily low, 13.29 ft below land-surface datum, Mar. 29, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.00	25.68	22.48	17.89	15.06	14.67	13.41	13.64	14.03	14.55	15.11	15.53
2	25.21	25.56	22.37	17.52	14.95	14.72	13.47	13.70	14.00	14.44	15.15	15.56
3	25.21	25.56	21.98	17.29	14.99	14.58	13.54	13.82	13.98	14.44	15.15	15.58
4	25.35	25.43	21.84	16.90	14.97	14.67	13.57	13.91	14.00	14.46	15.22	15.62
5	25.35	25.45	21.66	16.65	14.85	14.67	13.61	13.96	14.05	14.46	15.29	15.65
6	25.39	25.26	21.45	15.86	14.76	14.44	13.52	13.91	14.05	14.53	15.27	15.65
7	25.42	25.24	21.24	15.59	14.58	14.67	13.66	13.84	14.09	14.53	15.22	15.62
8	25.35	25.31	21.29	15.29	14.53	14.67	13.70	13.91	14.07	14.55	15.24	15.51
9	25.46	25.29	21.04	15.27	14.65	14.55	13.77	13.89	14.14	14.67	15.20	15.53
10	25.57	25.10	20.62	15.15	14.62	14.44	13.84	13.91	14.21	14.67	15.22	15.62
11	25.57	24.92	20.44	15.04	14.49	14.55	13.77	14.00	14.23	14.60	15.27	15.71
12	25.53	25.01	20.44	14.83	14.53	14.74	13.91	14.16	14.21	14.60	15.29	15.69
13	25.39	25.03	20.23	14.76	14.51	14.81	13.98	14.07	14.14	14.58	15.31	15.62
14	25.39	25.06	20.21	15.01	14.53	14.83	14.09	13.89	14.16	14.55	15.42	15.62
15	25.46	24.94	20.14	14.97	14.53	14.78	14.14	13.84	14.26	14.62	15.49	15.69
16	25.64	24.80	19.84	14.81	14.62	14.62	14.03	13.93	14.32	14.69	15.44	15.69
17	25.67	24.64	19.63	14.85	14.67	14.69	13.98	13.98	14.37	14.67	15.40	15.71
18	25.67	24.57	19.45	14.90	14.69	14.72	13.98	14.00	14.49	14.62	15.35	15.71
19	25.53	24.46	19.40	14.60	14.62	14.81	13.91	13.93	14.53	14.74	15.44	15.74
20	25.57	24.32	19.40	14.62	14.51	14.78	14.03	13.93	14.55	14.75	15.47	15.67
21	25.64	24.32	19.10	14.83	14.62	14.78	13.98	13.98	14.51	14.77	15.53	15.69
22	25.57	24.14	19.13	14.81	14.65	14.49	13.73	13.91	14.58	14.79	15.51	15.60
23	25.39	23.86	19.17	15.08	14.55	14.51	13.68	13.84	14.62	14.86	15.60	15.74
24	25.35	23.63	19.17	15.01	14.58	14.39	13.57	14.00	14.58	14.79	15.67	15.74
25	25.46	23.52	18.94	14.72	14.62	14.37	13.54	14.09	14.65	14.79	15.67	15.62
26	25.67	23.40	18.97	14.99	14.62	14.28	13.50	14.09	14.67	14.82	15.60	15.65
27	25.82	23.10	19.06	15.24	14.26	13.98	13.64	14.05	14.69	14.97	15.51	15.76
28	25.82	22.97	18.90	15.24	14.58	13.54	13.64	14.00	14.72	15.02	15.60	15.67
29	25.68	22.94	18.62	14.99	---	13.29	13.54	14.05	14.72	15.06	15.60	15.71
30	25.54	22.62	18.60	14.95	---	13.47	13.59	14.03	14.72	15.11	15.56	15.71
31	25.68	---	18.35	15.08	---	13.52	---	14.09	---	15.09	15.49	---
MAX	25.82	25.68	22.48	17.89	15.06	14.83	14.14	14.16	14.72	15.11	15.67	15.76
CAL YR 2004	LOW 25.82											
WTR YR 2005	LOW 25.82											



392712084191700. Local Number, W-5

LOCATION.—Latitude 39°27'12", longitude 84°19'17", Warren County, Hydrologic Unit 05080002, Union Road, 2 mi east of Monroe, Ohio. Owner: Bob Proeschel.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 12 in., depth 121 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 660 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

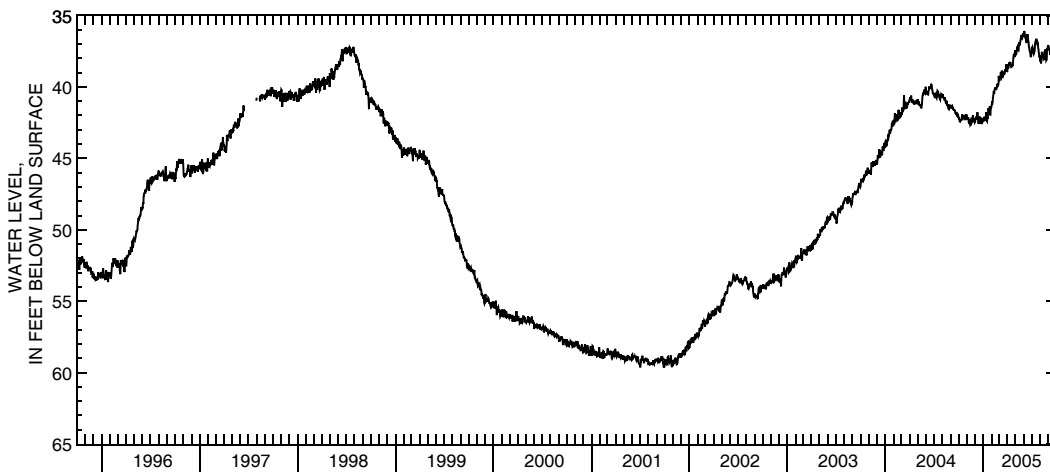
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 59.64 ft below land-surface datum, July 2, 2001; minimum daily low, 17.55 ft below land-surface datum, May 4, 1975.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.11	42.17	42.45	42.44	41.32	39.42	38.91	37.52	36.45	37.28	38.15	37.10
2	42.21	42.24	42.41	42.36	41.21	39.60	38.43	37.55	36.35	37.23	38.21	37.18
3	42.21	42.30	42.24	42.30	41.00	39.53	38.52	37.62	36.07	37.18	38.06	37.28
4	42.29	42.14	42.21	42.23	41.07	39.38	38.66	37.67	36.17	37.29	38.22	37.32
5	42.42	42.23	42.27	42.09	40.89	39.36	38.64	37.63	36.27	37.32	38.35	37.46
6	42.44	42.12	42.07	42.24	40.77	39.41	38.49	37.50	36.53	37.37	38.06	37.60
7	42.41	42.39	42.14	42.26	40.60	38.97	38.37	37.18	36.59	37.59	37.59	37.73
8	42.35	42.53	42.30	42.38	40.38	39.33	38.38	37.25	36.59	37.67	37.60	37.65
9	42.23	42.59	42.14	42.33	40.28	39.35	38.31	37.20	36.71	37.59	37.62	37.47
10	42.32	42.38	41.76	42.11	40.43	39.07	38.34	37.25	36.88	37.57	37.88	37.47
11	42.32	42.26	42.15	41.99	40.49	38.85	38.35	37.44	36.87	37.49	37.97	37.53
12	42.29	42.44	42.17	41.76	40.18	38.94	38.25	37.46	36.80	37.25	37.88	37.55
13	42.06	42.65	42.41	41.87	40.14	39.18	38.45	37.28	36.38	37.00	37.92	37.52
14	42.03	42.62	42.59	42.36	40.08	39.23	38.49	37.00	36.30	36.87	38.00	37.46
15	41.93	42.63	42.56	42.41	40.07	39.25	38.61	36.88	36.39	36.78	38.07	37.44
16	42.07	42.45	42.35	42.18	40.13	39.17	38.60	37.00	36.39	36.74	38.06	37.34
17	42.20	42.27	42.23	42.18	40.16	39.02	38.49	36.98	36.59	36.66	37.63	37.22
18	42.18	42.20	42.07	42.18	40.18	39.00	38.48	36.99	36.77	36.62	37.49	37.29
19	42.00	42.14	42.35	41.58	40.16	38.93	38.48	36.82	36.92	36.75	37.55	37.37
20	42.11	42.32	42.35	41.49	40.08	39.10	38.49	36.74	37.13	36.88	37.38	37.35
21	42.18	42.38	42.11	41.55	39.84	39.09	38.48	36.62	37.23	36.92	37.43	37.23
22	42.14	42.33	42.18	41.63	39.85	38.97	38.31	36.43	37.41	36.88	37.62	36.92
23	42.02	42.07	42.47	41.82	39.96	38.75	38.00	36.38	37.43	37.00	37.97	37.10
24	41.97	41.99	42.45	41.76	39.77	38.93	37.80	36.51	37.52	37.00	38.12	37.05
25	42.18	42.29	42.39	41.36	39.88	38.81	37.80	36.56	37.55	37.29	38.09	36.99
26	42.24	42.32	42.51	41.69	39.85	38.81	37.68	36.48	37.70	37.41	37.86	36.87
27	42.26	42.20	42.60	41.99	39.74	38.68	37.92	36.51	37.91	37.56	37.35	36.99
28	42.20	42.47	42.47	41.96	39.23	38.42	37.85	36.35	37.86	37.67	37.37	36.88
29	42.05	42.42	42.27	41.54	---	38.66	37.60	36.32	37.78	37.85	37.43	37.07
30	41.90	42.32	42.24	41.42	---	38.58	37.43	36.30	37.63	37.83	37.20	37.05
31	42.23	---	42.35	41.42	---	38.96	---	36.23	---	37.83	37.07	---
MAX	42.44	42.65	42.60	42.44	41.32	39.60	38.91	37.67	37.91	37.85	38.35	37.73
CAL YR 2004	LOW 44.21											
WTR YR 2005	LOW 42.65											



Ground-Water Records—Washington County

392553081281600. Local Number, WA-2

LOCATION.—Latitude 39°25'53", longitude 81°28'16", Washington County, Hydrologic Unit 05040004, near county fairgrounds north of Marietta, Ohio. Owner: City of Marietta.

AQUIFER.—Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.—Drilled unused water table well, diameter 8 in., depth, 50 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval. Satellite telemeter at site.

DATUM.—Elevation of land-surface datum is 605 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

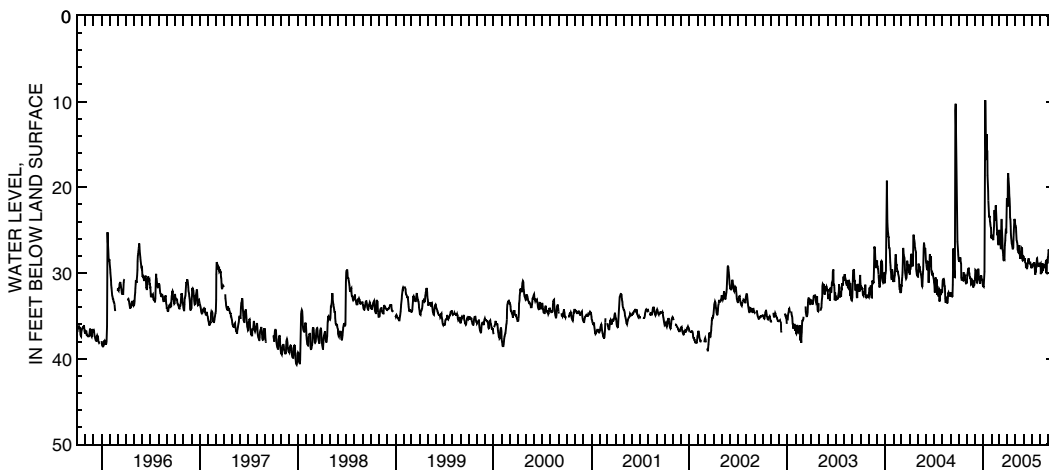
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. New well was drilled adjacent to WA-2 in water year 2003. Site identification remains unchanged.

PERIOD OF RECORD.—August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 42.30 ft below land-surface datum, Feb. 7 and 8, 1992; minimum daily low, 9.84 ft below land-surface datum, Jan. 8, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.40	31.20	30.82	31.58	25.91	25.25	22.29	24.45	28.13	29.27	29.15	27.81
2	28.54	30.29	30.15	31.61	25.59	24.98	22.18	24.52	28.31	29.31	28.95	27.25
3	28.53	30.27	29.64	31.63	25.76	25.35	19.16	24.67	28.39	29.30	28.90	27.47
4	28.68	29.93	29.68	30.86	25.70	26.12	18.35	25.20	28.40	29.27	30.14	27.75
5	28.32	29.87	29.79	29.87	26.04	26.19	18.97	25.88	28.27	29.01	29.42	28.88
6	28.61	29.49	30.41	28.69	26.10	26.19	19.46	26.25	28.77	28.96	30.03	28.99
7	28.18	29.46	31.11	22.61	26.17	27.20	20.07	26.41	28.80	28.92	29.41	28.98
8	28.48	29.70	31.15	9.84	25.31	27.15	20.87	26.66	28.87	28.84	29.34	29.15
9	28.76	29.97	31.11	11.98	25.01	24.89	21.37	27.28	29.34	28.82	29.81	29.17
10	28.93	30.05	30.71	14.55	24.45	23.74	22.31	27.30	29.33	28.75	28.90	29.17
11	30.58	30.42	30.43	16.82	23.08	24.61	23.53	27.42	29.32	29.11	29.62	29.63
12	30.76	30.53	29.85	16.35	22.64	25.31	23.75	27.61	29.35	29.65	29.76	29.33
13	30.75	30.56	29.51	14.19	23.17	26.04	24.59	27.66	29.19	30.11	29.27	28.87
14	30.71	30.64	29.73	13.81	23.89	27.26	25.43	27.32	29.23	30.11	29.23	28.67
15	30.78	30.67	30.23	15.64	23.44	27.46	25.93	26.75	29.06	29.54	29.29	28.73
16	30.86	31.37	30.56	15.79	22.11	27.95	26.24	27.63	28.82	29.92	29.31	28.73
17	30.87	31.36	30.74	18.60	22.18	28.45	26.54	27.91	28.62	29.26	29.11	28.69
18	30.90	31.29	30.87	19.42	22.78	28.51	26.68	28.07	28.56	29.04	29.13	28.50
19	30.25	31.15	31.16	20.45	23.57	28.47	26.86	28.34	28.29	28.77	29.16	29.61
20	29.91	30.99	31.24	21.51	24.01	28.47	27.07	28.26	28.72	28.29	29.13	29.27
21	30.69	30.88	30.43	22.30	24.96	28.50	27.23	27.52	28.77	28.27	29.17	29.17
22	30.85	30.91	30.54	23.05	25.52	26.81	27.16	27.75	28.76	28.75	28.79	29.14
23	30.33	31.03	30.70	23.43	25.57	26.60	27.07	27.81	28.86	29.07	28.47	29.25
24	30.29	31.51	30.26	23.43	25.29	26.21	25.67	27.09	28.89	29.13	29.99	29.16
25	30.67	31.70	30.45	23.35	26.31	25.63	25.32	27.15	28.88	29.08	30.01	28.82
26	30.81	31.33	30.69	23.97	26.67	25.04	24.53	27.09	28.85	28.95	28.60	28.82
27	31.02	31.42	30.78	24.17	26.66	25.08	23.69	28.50	29.11	28.95	28.42	28.44
28	31.15	31.51	30.84	24.36	26.43	25.36	23.76	28.58	29.03	29.18	28.87	28.22
29	31.21	31.33	31.10	24.66	---	24.06	23.92	28.56	29.24	29.23	28.56	28.32
30	31.18	30.86	31.26	24.76	---	21.27	24.33	28.03	29.44	29.04	28.21	28.34
31	31.13	---	31.49	25.88	---	21.40	---	28.08	---	29.10	27.96	---
MAX	31.21	31.70	31.49	31.63	26.67	28.51	27.23	28.58	29.44	30.11	30.14	29.63
CAL YR 2004	LOW 33.49											
WTR YR 2005	LOW 31.70											



Ground-Water Records—Wayne County

404655081553100. Local Number, WN-8

LOCATION.—Latitude 40°46'55", longitude 81°55'31", Wayne County, Hydrologic Unit 05040003, OARDC-OSU Experiment Station near Wooster, Ohio.
 Owner: State of Ohio.

AQUIFER.—Shale of Mississippian Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 141 ft, cased to 31.5 ft.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 1,040 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

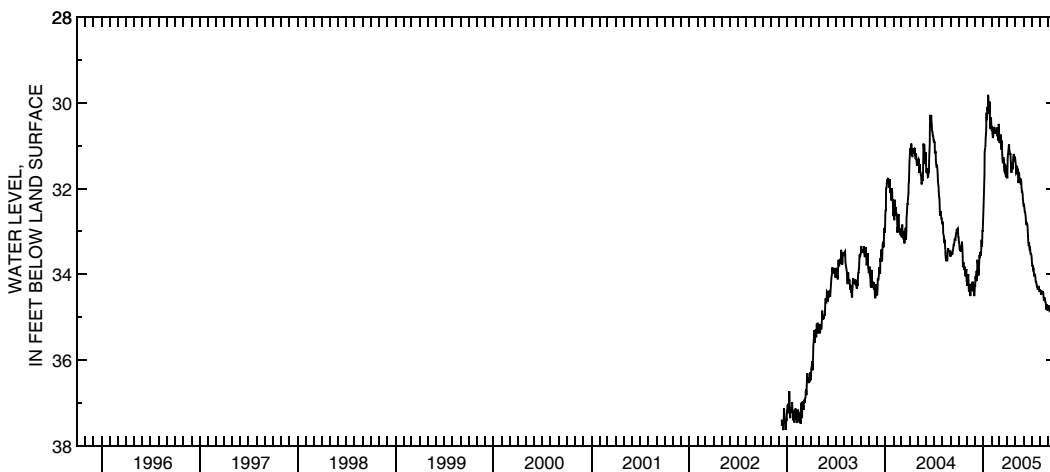
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water.

PERIOD OF RECORD.—December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 37.63 ft below land-surface datum, Dec. 26, 2002; minimum daily low, 29.81 ft below land-surface datum, Jan. 19, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.13	34.17	34.27	32.63	30.59	30.71	31.76	31.34	32.42	33.62	34.36	34.74
2	33.24	34.16	34.27	32.44	30.58	30.87	31.28	31.42	32.40	33.75	34.38	34.74
3	33.26	34.27	34.09	32.25	30.60	30.93	31.24	31.54	32.41	33.79	34.39	34.80
4	33.31	34.04	34.04	31.96	30.71	30.87	31.16	31.65	32.47	33.82	34.42	34.84
5	33.42	34.11	34.16	31.67	30.80	30.94	31.08	31.64	32.55	33.79	34.48	34.86
6	33.43	34.00	34.02	31.15	30.80	30.93	31.01	31.50	32.55	33.88	34.45	34.87
7	33.46	34.21	33.92	31.08	30.75	30.74	30.97	31.47	32.61	33.87	34.41	34.82
8	33.36	34.37	34.15	31.04	30.63	31.03	31.09	31.57	32.67	33.92	34.42	34.74
9	33.36	34.40	34.00	31.00	30.61	31.09	31.13	31.56	32.76	34.00	34.40	34.83
10	33.45	34.29	33.66	30.78	30.58	30.99	31.16	31.56	32.83	34.05	34.39	34.86
11	33.47	34.23	33.75	30.72	30.58	30.88	31.21	31.76	32.85	34.01	34.43	34.90
12	33.42	34.35	33.77	30.49	30.58	31.08	31.17	31.87	32.82	33.99	34.41	34.85
13	33.24	34.49	33.89	30.23	30.71	31.29	31.33	31.82	32.81	34.01	34.46	34.81
14	33.29	34.51	34.01	30.39	30.68	31.34	31.42	31.61	32.84	34.05	34.56	34.85
15	33.39	34.40	34.01	30.38	30.72	31.41	31.56	31.67	32.88	34.14	34.61	34.94
16	33.60	34.27	33.80	30.16	30.65	31.37	31.63	31.76	33.03	34.17	34.56	34.87
17	33.81	34.25	33.72	30.09	30.61	31.27	31.48	31.80	33.11	34.18	34.57	34.92
18	33.82	34.23	33.55	30.19	30.68	31.33	31.44	31.83	33.25	34.20	34.54	35.00
19	33.72	34.24	33.62	29.81	30.68	31.34	31.45	31.76	33.32	34.24	34.61	35.04
20	33.81	34.29	33.60	29.86	30.66	31.49	31.52	31.83	33.34	34.30	34.63	35.03
21	33.87	34.39	33.48	30.04	30.57	31.60	31.55	31.90	33.26	34.28	34.66	35.06
22	33.89	34.30	33.57	29.97	30.70	31.60	31.47	31.82	33.37	34.32	34.68	34.99
23	33.84	34.20	33.52	30.25	30.78	31.42	31.27	31.83	33.40	34.36	34.75	35.12
24	33.84	34.17	33.48	30.22	30.72	31.63	31.20	32.00	33.39	34.33	34.81	35.11
25	33.96	34.39	33.23	29.97	30.70	31.63	31.21	32.09	33.43	34.32	34.81	35.03
26	34.02	34.39	33.19	30.35	30.87	31.69	31.21	32.05	33.49	34.27	34.73	34.98
27	34.03	34.33	33.36	30.59	30.87	31.68	31.31	32.09	33.54	34.31	34.70	35.08
28	34.05	34.49	33.23	30.59	30.49	31.47	31.37	32.15	33.51	34.33	34.83	35.00
29	33.93	34.49	32.99	30.36	---	31.65	31.31	32.24	33.54	34.36	34.83	35.04
30	33.88	34.35	32.99	30.34	---	31.63	31.30	32.31	33.57	34.41	34.78	35.04
31	34.14	---	32.82	30.45	---	31.71	---	32.39	---	34.38	34.72	---
MAX	34.14	34.51	34.27	32.63	30.87	31.71	31.76	32.39	33.57	34.41	34.83	35.12
CAL YR 2004	LOW 34.51											
WTR YR 2005	LOW 35.12											



404802081583100. Local Number, WN-2A

LOCATION.—Latitude 40°48'02", longitude 81°58'31", Wayne County, Hydrologic Unit 05040003, by Killbuck Creek near Wooster, Ohio. Owner: City of Wooster.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled test water table well, diameter 6 in., depth 65 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 855 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 6.00 ft above land-surface datum.

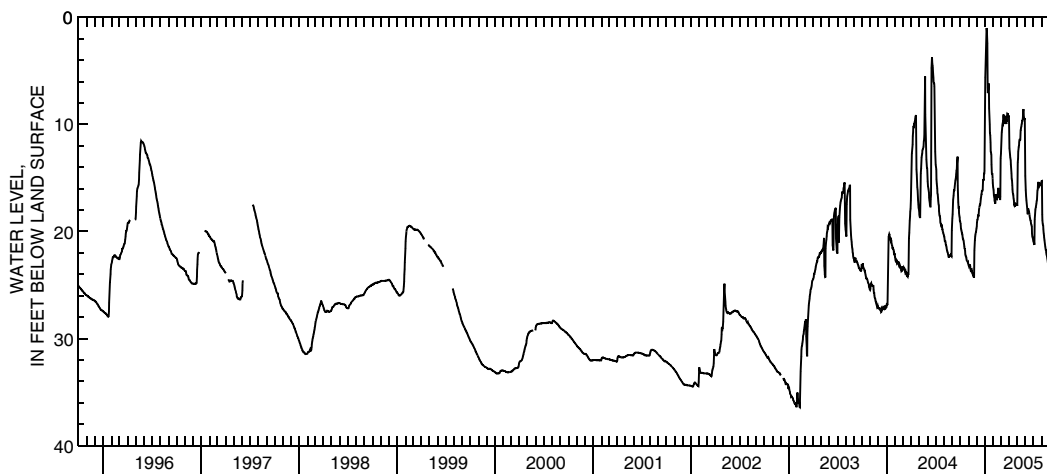
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR. New well ws drilled adjacent to WN-2A in water year 2003. Site identification remains unchanged.

PERIOD OF RECORD.—July 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 37.95 ft below land-surface datum, June 23, 1988; minimum daily low, 1.02 ft below land-surface datum, Jan. 7, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.08	23.11	19.72	11.95	15.85	13.17	9.29	17.47	14.83	20.86	15.30	23.98
2	19.25	23.25	19.55	7.62	16.04	12.74	10.71	17.62	15.65	20.98	15.28	23.97
3	19.29	23.30	19.18	5.63	16.13	12.40	12.22	14.27	16.12	20.89	18.43	23.79
4	19.72	23.24	18.93	4.75	16.64	11.63	12.56	13.54	16.68	21.01	18.95	23.84
5	19.85	23.26	18.89	3.22	16.84	10.75	12.88	13.18	17.08	21.24	19.28	23.91
6	19.98	23.08	18.67	2.02	17.19	10.61	13.09	12.54	17.24	18.86	19.47	24.11
7	20.18	23.28	18.52	1.02	17.27	10.09	13.36	12.14	17.72	18.41	19.78	21.70
8	20.17	23.48	18.53	1.20	17.41	9.90	13.73	11.96	18.01	18.00	20.16	21.23
9	20.34	23.62	18.32	1.59	17.29	9.93	14.16	11.67	18.29	17.79	20.37	20.93
10	20.59	23.59	17.95	2.44	16.92	9.58	14.63	11.45	18.40	17.73	20.59	20.65
11	20.68	23.68	17.77	6.60	16.54	9.14	15.07	11.45	17.86	17.54	20.82	20.47
12	20.72	23.67	17.69	7.08	16.81	9.15	15.21	11.53	17.93	17.35	20.96	20.35
13	20.88	23.62	17.51	6.76	16.94	9.70	15.69	11.40	18.05	17.17	21.19	20.22
14	20.92	23.79	17.51	6.68	16.98	9.87	16.05	10.56	18.13	17.07	21.44	20.11
15	21.17	23.89	17.41	6.17	16.99	9.85	16.44	10.50	18.23	16.78	21.55	20.02
16	21.39	23.94	17.13	7.11	16.66	9.81	16.54	10.29	18.40	16.18	21.74	19.86
17	21.59	24.03	16.98	8.50	16.59	9.54	16.62	10.17	18.56	16.07	21.77	19.76
18	21.63	24.09	16.76	9.33	16.54	9.51	16.94	10.01	18.73	15.73	21.96	19.62
19	21.82	24.19	16.55	9.99	16.04	9.21	17.12	9.88	18.86	15.51	22.20	19.67
20	22.11	24.24	16.53	10.81	15.93	9.63	17.42	9.69	18.97	15.38	22.26	19.59
21	22.23	24.25	16.16	11.03	16.35	9.85	17.52	9.69	19.00	15.77	22.37	19.52
22	22.32	24.31	16.28	11.70	16.74	9.97	17.48	9.52	19.26	15.82	22.57	19.41
23	22.36	21.77	16.16	12.52	16.82	9.51	17.68	9.38	19.35	15.77	22.72	19.42
24	22.48	21.23	16.09	12.67	16.73	9.74	17.55	8.72	19.41	15.62	22.93	19.36
25	22.65	20.84	15.28	12.85	16.78	9.31	17.47	8.58	19.55	15.67	23.02	19.24
26	22.73	20.45	15.12	13.76	16.91	9.01	17.38	9.02	20.19	15.63	23.21	19.18
27	22.79	20.26	15.26	14.56	17.06	9.04	17.42	9.43	20.49	15.58	23.36	19.18
28	22.83	20.13	15.10	14.66	16.74	8.97	17.52	9.54	20.56	15.57	23.50	19.05
29	22.85	20.06	14.60	14.57	---	9.22	17.49	9.46	20.62	15.55	23.64	19.00
30	22.82	19.83	14.59	15.06	---	9.19	17.45	9.49	20.79	15.52	23.68	18.87
31	22.98	---	14.34	15.46	---	9.20	---	13.77	---	15.39	23.91	---
MAX	22.98	24.31	19.72	15.46	17.41	13.17	17.68	17.62	20.79	21.24	23.91	24.11
CAL YR 2004	LOW 26.86											
WTR YR 2005	LOW 24.31											



405745081510200. Local Number, WN-7

LOCATION.—Latitude 40°57'45", longitude 81°51'02", Wayne County, Hydrologic Unit 05040001, along Steele Ditch near Sterling, Ohio. Owner: City of Rittman.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 123 ft, cased.

INSTRUMENTATION.—Electronic data logger, 60-minute log interval.

DATUM.—Elevation of land-surface datum is 965 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

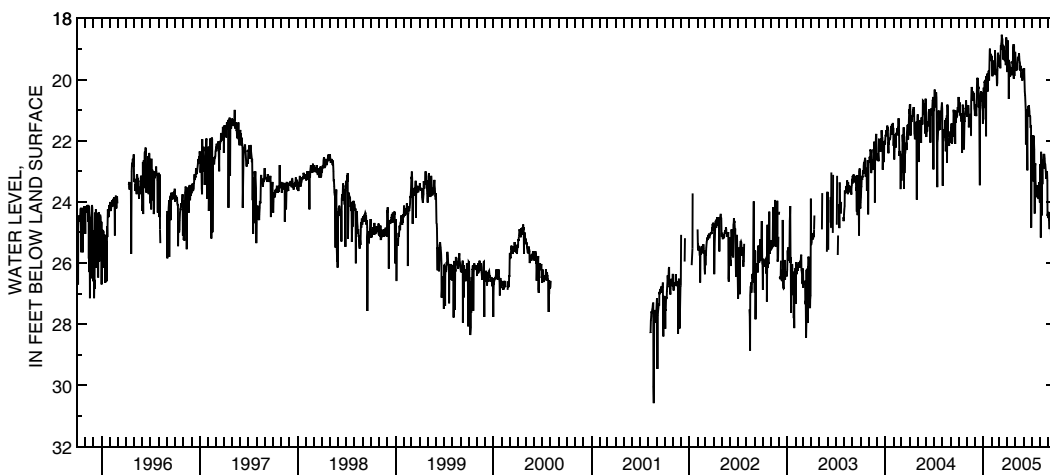
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—November 1978 to March 1979 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 33.50 ft below land-surface datum, Aug. 19, 1993; minimum daily low, 5.38 ft below land-surface datum, Jan. 17, 1980.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.57	21.14	21.18	21.30	19.25	19.59	18.93	19.15	19.74	21.87	23.12	24.51
2	20.72	21.22	21.00	21.29	19.25	19.45	18.72	19.52	19.81	21.83	22.77	24.35
3	20.73	21.14	20.81	20.27	19.26	19.52	18.81	19.47	19.64	21.90	22.88	24.33
4	21.08	21.08	20.91	20.94	19.90	19.32	19.56	19.70	19.97	22.08	25.17	24.60
5	20.75	20.93	21.05	20.07	19.41	19.50	19.38	19.58	20.40	21.83	22.37	24.89
6	21.08	20.84	21.20	20.10	19.41	19.64	20.64	19.62	20.52	23.33	24.03	24.57
7	21.17	20.96	20.58	20.04	19.81	18.89	19.45	19.68	20.78	22.05	24.45	24.75
8	21.18	21.57	20.27	20.15	19.74	18.93	19.43	19.67	21.02	21.84	22.62	24.59
9	21.11	21.39	19.98	20.01	19.80	18.84	19.45	19.44	22.13	22.13	23.43	24.69
10	21.35	21.39	19.98	20.33	19.81	18.74	19.58	19.26	21.00	22.29	22.82	24.87
11	21.35	21.29	20.00	21.86	19.62	18.54	19.92	19.38	21.03	24.36	22.65	25.89
12	21.36	21.18	19.95	19.89	19.53	18.66	19.79	19.32	21.08	24.36	22.62	25.65
13	21.33	21.26	20.31	20.00	19.74	18.68	19.79	19.26	21.54	22.83	22.58	25.17
14	22.40	21.32	20.24	20.04	19.05	19.04	19.77	19.14	22.97	22.74	22.43	25.31
15	21.65	21.12	20.91	20.03	19.47	18.87	19.62	19.25	21.18	23.33	22.91	25.01
16	20.82	21.84	20.72	19.81	19.65	19.35	19.75	19.41	21.11	23.49	22.43	25.68
17	20.88	20.72	20.58	20.40	19.77	18.89	19.86	19.45	20.87	23.49	22.53	24.80
18	21.42	20.34	22.94	20.19	19.74	19.02	19.70	19.47	20.96	23.85	22.58	24.56
19	21.53	20.25	23.46	19.97	19.86	19.00	19.72	19.71	21.06	23.46	22.76	25.37
20	21.50	20.28	20.54	20.00	19.80	19.06	19.40	19.55	20.84	23.72	22.77	23.85
21	22.29	20.51	20.72	19.72	20.22	19.34	19.49	19.67	20.93	23.47	22.85	23.75
22	21.86	20.69	20.47	19.94	20.11	19.40	19.24	19.80	21.05	23.55	22.98	23.60
23	21.36	20.61	20.43	20.03	19.71	19.38	18.96	19.94	21.22	23.63	23.21	23.42
24	21.38	20.40	20.39	19.65	19.40	19.31	18.85	19.83	21.17	23.54	23.25	23.46
25	21.11	20.67	20.51	19.04	19.13	19.31	19.98	19.79	21.22	23.70	23.16	23.34
26	21.06	20.46	20.43	18.99	19.20	19.53	18.90	20.04	21.53	23.91	23.24	23.21
27	20.93	20.47	20.46	19.26	19.22	19.31	19.89	20.01	21.59	23.63	23.00	23.18
28	20.96	20.61	20.85	19.19	19.43	18.63	19.20	19.95	21.50	23.36	23.31	25.25
29	20.69	20.96	20.93	19.19	---	18.77	19.15	19.89	24.84	23.61	24.47	23.24
30	20.90	21.02	21.02	19.23	---	18.90	19.10	19.65	22.65	23.69	24.39	23.18
31	20.91	---	21.44	19.40	---	19.75	---	19.80	---	24.02	24.50	---
MAX	22.40	21.84	23.46	21.86	20.22	19.75	20.64	20.04	24.84	24.36	25.17	25.89
CAL YR 2004	LOW 23.93											
WTR YR 2005	LOW 25.89											



405805081462300. Local Number, WN-6

LOCATION.—Latitude 40°58'05", longitude 81°46'23", Wayne County, Hydrologic Unit 05040001, Salt Street, Rittman, Ohio. Owner: Tenneco, Inc.

AQUIFER.—Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.—Drilled unused artesian well, diameter 8 in., depth 180 ft, cased.

INSTRUMENTATION.—Digital recorder, 60-minute punch.

DATUM.—Elevation of land-surface datum is 960 ft above sea level (from topographic map). Measuring point: Floor of instrument shelter 2.30 ft above land-surface datum.

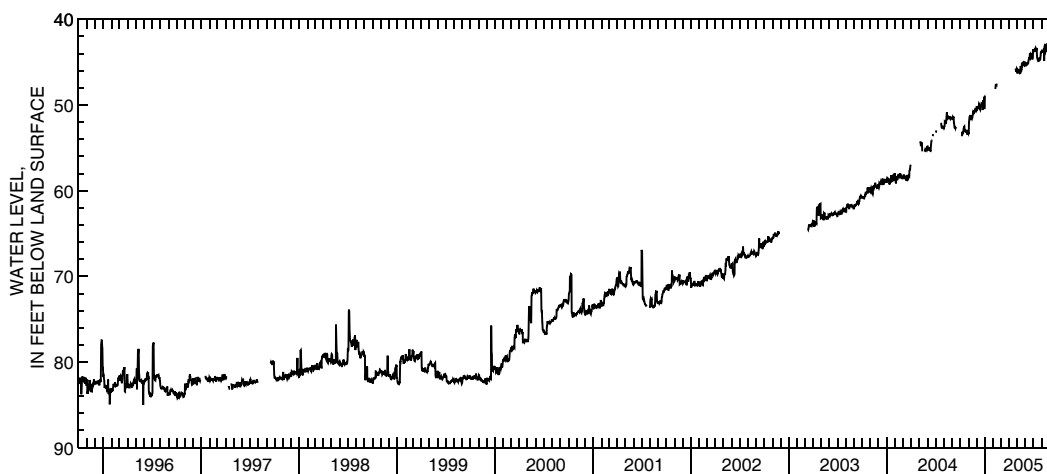
REMARKS.—Station operated by Ohio Department of Natural Resources (ODNR), Division of Water. Some historical records not published by the USGS are available from ODNR.

PERIOD OF RECORD.—May 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 93.15 ft below land-surface datum, Sept. 3-4, 1971; minimum daily low, 42.03 ft below land-surface datum, Sept. 26, 2005.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	53.37	50.38	48.98	---	---	---	45.80	45.24	43.49	43.79	42.68
2	---	53.23	50.43	---	---	---	---	45.80	45.17	43.62	43.71	42.65
3	---	52.03	50.28	---	---	---	---	46.00	45.20	43.78	43.78	42.73
4	---	51.76	50.28	---	---	---	---	46.23	45.19	43.75	43.82	42.75
5	---	51.39	50.42	---	---	---	---	46.23	45.21	43.60	43.83	42.82
6	---	51.28	50.35	---	---	---	---	46.00	45.35	43.49	43.81	42.92
7	53.66	51.19	50.13	---	---	---	---	45.85	45.30	43.43	43.64	42.82
8	53.45	51.47	50.31	---	---	---	---	46.11	45.04	43.35	43.50	42.62
9	53.12	51.57	50.29	---	48.14	---	---	46.02	45.10	43.61	43.48	42.71
10	53.35	51.49	49.84	---	47.72	---	---	45.81	45.18	43.77	44.85	42.69
11	53.35	51.36	49.90	---	47.71	---	---	46.12	45.18	43.63	43.24	42.63
12	53.25	51.34	49.96	---	47.68	---	---	46.29	44.98	43.43	43.17	42.53
13	52.91	51.56	50.13	---	47.71	---	---	46.26	44.72	43.33	43.26	42.25
14	52.70	51.62	50.53	---	47.50	---	---	45.45	44.66	44.19	43.69	42.23
15	52.60	51.50	50.59	---	---	---	---	45.57	44.55	44.43	43.80	42.58
16	52.53	51.24	50.47	---	---	---	---	45.85	44.56	44.58	43.71	42.61
17	52.79	51.06	50.34	---	---	---	---	45.93	44.47	44.79	43.33	42.61
18	52.90	50.85	50.02	---	---	---	---	45.80	43.95	44.81	42.88	42.55
19	52.95	50.75	50.15	---	---	---	---	45.09	44.15	44.87	43.00	42.54
20	53.08	50.78	49.85	---	---	---	---	45.33	44.12	44.85	42.97	42.43
21	53.11	50.99	49.89	---	---	---	---	45.42	44.50	44.67	42.93	42.61
22	53.11	50.97	49.84	---	---	---	---	45.34	44.42	44.70	42.89	42.55
23	53.09	50.80	49.88	---	---	---	---	44.98	43.98	44.74	43.03	42.66
24	53.04	50.62	49.89	---	---	---	---	45.16	44.40	44.65	43.29	42.59
25	53.21	50.57	50.59	---	---	---	---	45.27	44.42	44.70	43.32	42.46
26	53.33	50.65	49.44	---	---	---	45.76	45.19	43.95	44.69	43.12	42.03
27	53.39	50.59	49.86	---	---	---	46.14	45.23	44.68	44.65	42.84	42.33
28	53.44	50.65	49.65	---	---	---	45.93	45.18	44.50	44.23	42.81	42.25
29	53.26	50.73	49.17	---	---	---	46.02	45.26	44.31	43.89	42.78	42.18
30	53.00	50.62	49.11	---	---	---	45.78	45.18	43.68	43.85	42.75	42.12
31	53.25	---	50.46	50.47	---	---	---	45.27	---	43.76	42.59	---
MAX	53.66	53.37	50.59	50.47	48.14	---	46.14	46.29	45.35	44.87	44.85	42.92
CAL YR 2004		LOW 59.30										
WTR YR 2005		LOW 53.66										



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