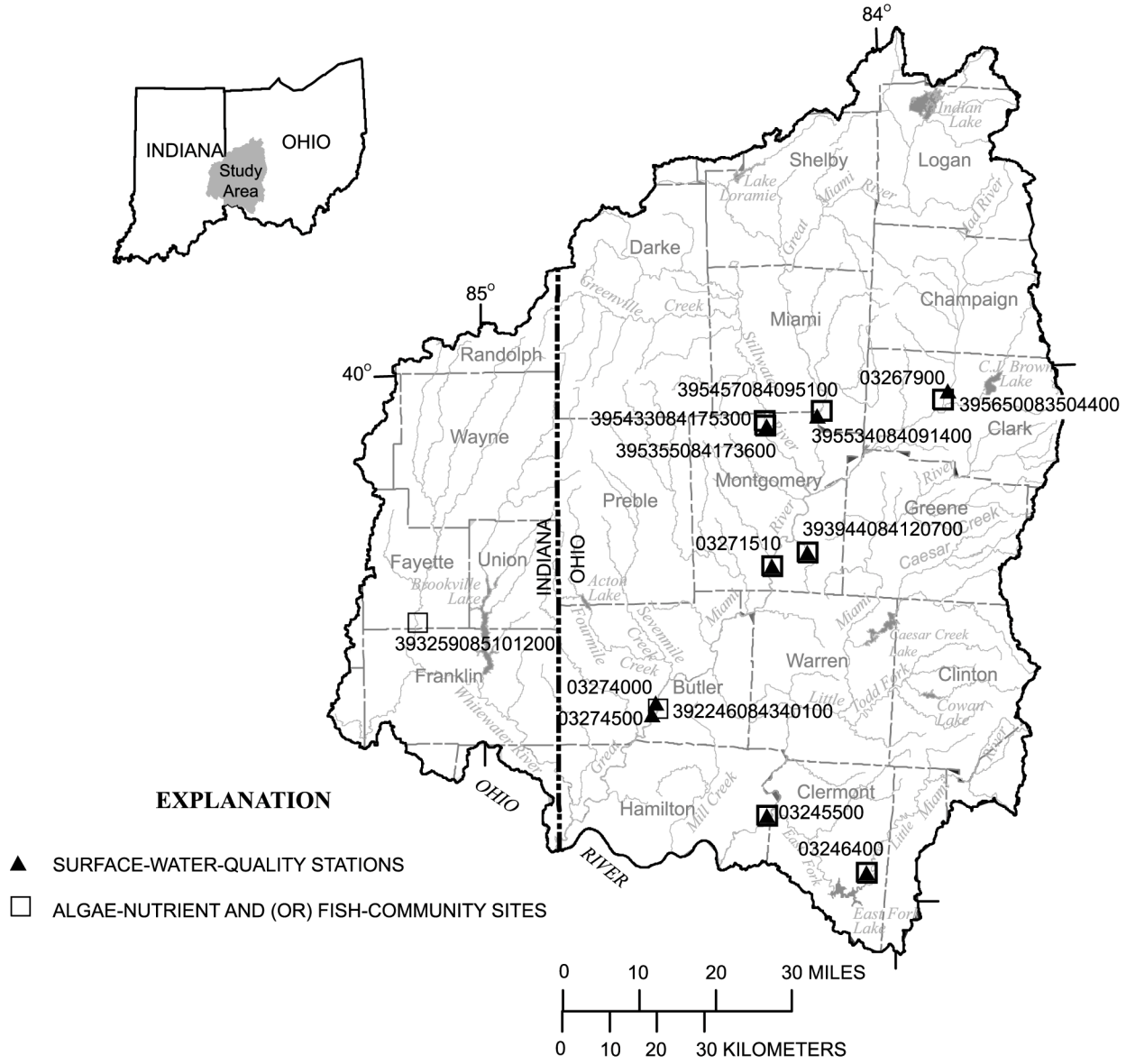
PROJECT DATA

Results from Selected Sites in the Great Miami and Little Miami River Basin (National Water-Quality Assessment Program)

The data described in the following table were collected and analyzed as part of the NAWQA (National Water-Quality Assessment Program) project in the Great Miami and Little Miami River Basins. The objectives of the NAWQA program are to broadly characterize the water quality of the Nation's streams and aquifers in relation to human and natural factors. The period of high-intensity data collection for the Great Miami and Little Miami River Basins project is in water years 1999-2001.

Data for eight stream sites in Ohio are being reported in this publication as part of the NAWQA study: Little Miami River at Milford, Ohio (03245500), East Fork Little Miami River near Williamsburg, Ohio (03246400), Mad River at St. Paris Pike near Springfield, Ohio (03267900), Great Miami River at Hamilton, Ohio (03274000), Great Miami River at Venice, Ohio (03274500), Holes Creek at Huffman Park near Kettering, Ohio (393944084120700), Stillwater River at Martindale Road near Union, Ohio (395355084173600), and Great Miami River near Vandalia, Ohio (395457084095100). One site is reported in the 2000 Indiana annual data report: Whitewater River near Alpine, Indiana (03275000).

These data also can be obtained electronically at: http://oh.water.usgs.gov/miam.html.



03245500 LITTLE MIAMI RIVER AT MILFORD, OHIO

LOCATION.—Latitude 39°10′17″, longitude 84°17′53″, Hamilton County, Hydrologic Unit 05090202, at mile 12.9.
DRAINAGE AREA.—1,203 mi^2.
REMARKS.—Discharge is measured at this site and published in volume 1, surface-water records.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00095), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; --, no data; col/100 mL, colonies per 100 milliliters; IT, incremental titration; <, concentration or value reported is less than that indicated; k, value is estimated from a non-ideal colony count]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, water, field (standard units) (00400)	pH, water, lab (standard units) (00403)	Water temperature (deg C) (00010)	Air temperature (deg C) (00020)	Barometric pressure (mm of Hg) (00025)	Dissolved oxygen (mg/L) (00300)
Oct. 18	1240	992	979	8.2	8.2	14.5	12.0	752	10.0
Nov. 16	1030	722	735	8.6	8.0	8.5	3.5	752	11.2
Dec. 7	1045	875	894	8.4	8.3	6.0	3.0	756	11.8
Jan. 4	1100	242	259	8.3	7.6	10.0	3.0	745	8.6
Feb. 7	1030	1360	1380	8.6	8.1	0.5	3.0	756	13.0
14	1510	339	392	7.9	7.5	4.0	2.0	748	13.2
Mar. 22	1110	588	609	8.0	8.0	8.5	13.0	760	11.4
May 3	1250	730	750	8.4	8.2	18.0	26.0	752	10.6
June 20	1330	498	502	8.4	7.9	17.0	31.0	748	9.3
July 13	1430	623	666	8.4	8.3	25.5	29.5	745	8.0
Aug. 15	1050	867	856	8.1	8.3	24.5	25.0	760	8.2
Sept. 13	1530	713	724	7.6	7.6	22.0	26.0	752	--

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli*, water, whole, total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Oct. 18	100	k40	26	81	8.5	<1	243	202	280
Nov. 16	96	330	24	50	5.7	<1	234	192	240
Dec. 7	95	580	24	70	6.4	12	228	207	270
Jan. 4	78	--	5.8	10	4.5	<1	68	56	88
Feb. 7	100	200	27	139	5.9	<1	249	207	320
14	103	2300	8.3	22	3.9	<1	46	38	110
Mar. 22	100	--	19	31	3.2	<1	184	153	210
May 3	110	k60	29	32	3.1	7	254	223	300
June 20	99	330	20	14	3.5	<1	181	150	210
July 13	100	k90	24	31	3.8	10	217	194	250
Aug. 15	100	270	27	11	5.6	5	264	227	290
Sept. 13	--	100	24	49	4.9	<1	212	176	250

03245500 LITTLE MIAMI RIVER AT MILFORD, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[(00301), USGS National Water Information System parameter code; col/100 mL, colonies per 100 milliliters; mg/L, milligrams per liter; µg/L, micrograms per liter; deg C, degrees Celsius; k, value is estimated from a non-ideal colony count; IT, incremental titration; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)
Oct.										
18	60	132	71	<10	9	0.6	3.9	552	0.01	3.6
Nov.										
16	--	--	56	e5	8	0.5	0.5	399	<0.01	1.5
Dec.										
7	56	120	70	e9	9	0.5	1.2	510	0.01	2.7
Jan.										
4	18	20	26	55	<2	0.2	3.6	140	0.01	1.2
Feb.										
7	62	251	84	26	32	0.5	4.3	756	0.08	3.3
14	20	45	29	49	4	0.2	4.3	208	0.02	2.2
Mar.										
22	39	60	55	15	5	0.2	5.1	339	0.02	5.0
May										
3	55	60	72	e8	4	0.2	1.0	429	0.02	3.9
June										
20	31	32	52	e5	4	0.2	5.3	300	0.03	6.0
July										
13	39	59	60	<10	3	0.3	4.7	385	0.02	3.5
Aug.										
15	52	101	71	<10	14	0.4	5.6	488	0.01	2.7
Sept.										
13	44	82	60	<10	6	0.4	5.1	429	0.01	3.3

Date	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus ortho-phosphate dissolved (mg/L as P) (00671)	Carbon, organic, dissolved (mg/L as C) (00681)	Carbon, organic, particulate (mg/L as C) (00689)	Sediment, suspended (mg/L) (80154)
Oct.									
18	0.03	0.56	0.35	0.76	0.66	0.67	3.7	0.4	15
Nov.									
16	<0.02	0.56	0.42	0.23	0.34	0.26	4.1	0.6	7
Dec.									
7	<0.02	0.48	0.37	0.56	0.53	0.48	4.2	0.4	7
Jan.									
4	0.08	3.8	0.47	1.7	0.15	0.13	6.8	6.5	1140
Feb.									
7	0.11	0.61	0.50	0.50	0.46	0.42	3.4	0.3	2
14	0.11	2.5	0.52	1.1	0.15	0.13	6.4	10	737
Mar.									
22	0.04	0.81	0.54	0.22	0.10	0.084	4.5	2.3	50
May									
3	<0.02	0.43	0.28	0.12	0.11	0.084	3.2	0.5	6
June									
20	0.02	0.86	0.44	0.22	0.08	0.063	4.7	2.4	70
July									
13	<0.02	0.69	0.35	0.30	0.20	0.18	3.7	1.1	31
Aug.									
15	<0.02	0.61	0.30	0.46	0.37	0.34	--	--	41
Sept.									
13	<0.02	0.52	0.38	0.39	0.32	0.28	3.4	0.8	33

03246400 EAST FORK LITTLE MIAMI RIVER NEAR WILLIAMSBURG, OHIO

LOCATION.—Latitude 39°03′32″, longitude 84°03′05″, Clermont County, Hydrologic Unit 05090202, and at mile 36.0.
DRAINAGE AREA.—234.2 mi^2.
REMARKS.—Discharge is not measured at this site. Discharge is measured 1 mi downstream at East Fork Little Miami River at Williamsburg, Ohio (03246500), and published in volume 1, surface-water records.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00095), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; col/100mL; colonies per 100 milliliters; µg/L, micrograms per liter; IT, incremental titration; --, no data; <, concentration or value reported is less than that indicated; k, value is estimated from a non-ideal colony count; e, estimated value]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, whole water field (standard units) (00400)	pH, whole water lab (standard units) (00403)	Water temperature, (deg C) (00010)	Air temperature, (deg C) (00020)	Barometric pressure, (mm of Hg) (00025)	Oxygen, dissolved (mg/L) (00300)
Mar.									
28	1030	492	521	8.3	8.1	7.0	11.5	726	10.3
May									
11	1140	552	577	8.4	8.2	25.5	22.5	739	8.7
24	1110	524	547	7.9	8.0	27.5	20.5	729	7.6
June									
7	1220	470	480	8.4	8.2	22.0	21.0	748	9.6
21	0910	313	315	7.7	7.7	24.0	22.5	737	6.8
July									
6	1030	232	229	7.6	7.8	25.0	23.0	738	--
18	1040	491	548	8.8	8.5	27.0	--	739	--
Aug.									
2	1100	450	468	8.6	8.1	29.0	--	--	--
15	1300	385	383	8.7	8.3	32.5	25.5	755	12.4
28	1150	459	464	8.0	8.2	28.0	23.5	745	7.9

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli*, water, whole, total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Mar.									
28	100	--	19	12	3.1	2	195	166	230
May									
11	104	--	24	14	3.4	10	212	192	260
24	89	300	22	15	4.2	<1	114	94	240
June									
7	108	k110	17	8.7	6.8	7	164	147	210
21	82	k350	10	4.8	7.1	<1	115	95	130
July									
6	--	3600	6.2	3.5	6.3	<1	91	75	85
18	--	120	20	17	5.4	17	181	178	240
Aug.									
2	--	k80	17	12	5.8	7	176	158	200
15	132	200	13	9.2	2.3	12	145	141	180
28	95	110	16	12	6.1	4	193	166	200

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)
Mar.									
28	45	26	60	e6	10	0.2	2.6	279	0.01
May									
11	56	31	64	e8	5	0.2	0.5	331	<0.01
24	54	32	59	e6	6	0.2	1.5	321	0.04
June									
7	36	26	56	<10	e2	0.2	4.7	305	0.03
21	19	13	37	32	4	0.2	7.0	208	0.07
July									
6	13	9.6	24	51	<2	0.2	5.7	149	0.02
18	55	31	63	<10	<2	0.3	4.5	332	<0.01
Aug.									
2	35	24	51	<10	<2	0.2	2.5	274	<0.01
15	28	20	50	e8	e2	0.2	2.9	234	<0.01
28	34	24	56	e5	<2	0.2	2.0	269	<0.01

03246400 EAST FORK LITTLE MIAMI RIVER NEAR WILLIAMSBURG, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00631), USGS National Water Information System parameter code; µg/L, micrograms per liter; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate, dissolved (mg/L as P) (00671)	Sediment, suspended (mg/L) (80154)
Mar.								
28	2.1	<0.02	0.74	0.40	0.11	0.04	0.02	24
May								
11	<0.05	<0.02	0.71	0.44	--	--	--	--
24	1.2	0.07	0.81	0.52	0.15	0.11	0.08	28
June								
7	5.5	<0.02	1.0	0.62	0.16	0.09	0.06	24
21	4.5	0.04	0.96	0.73	0.30	0.22	0.19	42
July								
6	1.2	0.04	1.2	0.72	0.44	0.27	0.24	126
18	0.50	<0.02	0.95	0.41	0.18	0.05	0.03	50
Aug.								
2	<0.05	<0.02	0.91	0.40	0.12	0.06	0.04	18
15	<0.05	<0.02	0.97	0.47	0.15	0.06	0.04	21
28	<0.05	<0.02	0.77	0.43	0.10	0.07	0.05	16

Date	Acetochlor, water, filtered (µg/L) (49260)	Alachlor, water, filtered (µg/L) (46342)	Atrazine, water, filtered (µg/L) (39632)	Deethyl-atrazine, water, filtered (µg/L) (04040)	Methyl-azinphos, water, filtered (µg/L) (82686)	Benfluralin, water, filtered (µg/L) (82673)	Butylate, water, filtered (µg/L) (04028)	Carbaryl, water, filtered (µg/L) (82680)
Mar.								
28	--	--	--	--	--	--	--	--
May								
11	0.027	<0.002	0.16	e0.033	<0.001	<0.002	<0.002	<0.002
24	3.8	0.41	14.6	e0.78	<0.001	<0.002	<0.002	<0.002
June								
7	0.49	0.098	18.8	e2.6	<0.001	<0.002	<0.002	<0.002
21	0.28	0.041	4.7	e0.70	<0.001	<0.002	<0.002	<0.002
July								
6	0.10	0.038	0.91	e0.33	<0.001	<0.002	<0.002	<0.002
18	0.022	0.006	0.58	e0.18	<0.001	<0.002	<0.002	<0.002
Aug.								
2	0.020	0.005	0.46	e0.14	<0.001	<0.002	<0.002	<0.002
15	0.026	0.009	0.54	e0.17	<0.001	<0.002	<0.002	<0.002
28	<0.01	<0.002	0.32	e0.087	<0.001	<0.002	<0.002	<0.002

Date	Carbofuran, water, filtered (µg/L) (82674)	Chlorpyrifos, water, filtered (µg/L) (38933)	Cyanazine, water, filtered (µg/L) (04041)	DCPA, water, filtered (µg/L) (82682)	p,p'-DDE, water, filtered (µg/L) (34653)	Diazinon, water, filtered (µg/L) (39572)	Dieldrin, water, filtered (µg/L) (39381)	2,6-diethyl--aniline, water, filtered (µg/L) (82660)
Mar.								
28	--	--	--	--	--	--	--	--
May								
11	<0.003	<0.004	<0.01	<0.002	<0.006	<0.002	<0.001	<0.003
24	<0.003	<0.004	0.059	<0.002	<0.006	0.022	<0.001	<0.003
June								
7	<0.003	<0.004	0.038	<0.002	<0.006	<0.002	<0.001	<0.003
21	<0.003	0.004	0.021	<0.002	<0.006	e0.003	<0.001	<0.003
July								
6	e.018	e0.004	<0.012	<0.002	<0.006	<0.002	<0.001	<0.003
18	<0.003	<0.004	0.008	<0.002	<0.006	<0.002	<0.001	<0.003
Aug.								
2	<0.003	<0.004	0.014	<0.002	<0.006	<0.002	<0.001	<0.003
15	<0.003	<0.004	0.017	<0.002	<0.006	0.004	<0.001	<0.003
28	<0.003	<0.004	0.009	<0.002	<0.006	<0.002	<0.001	<0.003

03246400 EAST FORK LITTLE MIAMI RIVER NEAR WILLIAMSBURG, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82677), USGS National Water Information System parameter code; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Disulfoton, water, filtered (µg/L) (82677)	Methyl parathion, water, filtered (µg/L) (82667)	EPTC, water, filtered (µg/L) (82668)	Ethalfluralin, water, filtered (µg/L) (82663)	Ethoprop, water, filtered (µg/L) (82672)	Fonofos, water, filtered (µg/L) (04095)	Alpha BHC, water, filtered (µg/L) (34253)	Lindane, water, filtered (µg/L) (39341)
Mar.								
28	--	--	--	--	--	--	--	--
May								
11	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
24	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
June								
7	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
21	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
July								
6	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
18	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
Aug.								
2	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
15	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004
28	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004

Date	Linuron, water, filtered (µg/L) (82666)	Malathion, water, filtered (µg/L) (39532)	Metolachlor, water, filtered (µg/L) (39415)	Metribuzin, water, filtered (µg/L) (82630)	Molinate, water, filtered (µg/L) (82671)	Napropamide, water, filtered (µg/L) (82684)	Parathion, water, filtered (µg/L) (39542)	Pebulate, water, filtered (µg/L) (82669)
Mar.								
28	--	--	--	--	--	--	--	--
May								
11	<0.002	<0.005	0.077	<0.004	<0.004	<0.003	<0.004	<0.004
24	<0.002	<0.005	1.1	0.23	<0.004	<0.003	<0.004	<0.004
June								
7	<0.002	<0.005	3.7	0.15	<0.004	<0.003	<0.004	<0.004
21	<0.002	<0.005	2.3	0.10	<0.004	<0.003	<0.004	<0.004
July								
6	<0.002	<0.005	0.62	0.043	<0.004	<0.003	<0.004	<0.004
18	<0.002	<0.005	0.23	0.008	<0.004	<0.003	<0.004	<0.004
Aug.								
2	<0.002	<0.005	0.23	0.006	<0.004	<0.003	<0.004	<0.004
15	<0.002	<0.005	0.20	<0.004	<0.004	<0.003	<0.004	<0.004
28	<0.002	<0.005	0.076	e0.004	<0.004	<0.003	<0.004	<0.004

Date	Pendimethalin, water, filtered (µg/L) (82683)	Permethrin, cis, water, filtered (µg/L) (82687)	Phorate, water, filtered (µg/L) (82664)	Prometon, water, filtered (µg/L) (04037)	Pronamide, water, filtered (µg/L) (82676)	Propachlor, water, filtered (µg/L) (04024)	Propanil, water, filtered (µg/L) (82679)	Propargite, water, filtered (µg/L) (82685)
Mar.								
28	--	--	--	--	--	--	--	--
May								
11	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
24	<0.01	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
June								
7	<0.004	<0.005	<0.002	e0.009	<0.003	<0.007	<0.004	<0.013
21	<0.004	<0.005	<0.002	e0.007	<0.003	<0.007	<0.004	<0.013
July								
6	<0.02	<0.005	<0.002	e0.011	<0.003	<0.007	<0.004	<0.013
18	<0.004	<0.005	<0.002	e0.014	<0.003	<0.007	<0.004	<0.013
Aug.								
2	<0.004	<0.005	<0.002	e0.013	<0.003	<0.007	<0.004	<0.013
15	<0.004	<0.005	<0.002	e0.007	<0.003	<0.007	<0.004	<0.013
28	<0.004	<0.005	<0.002	e0.008	<0.003	<0.007	<0.004	<0.013

03246400 EAST FORK LITTLE MIAMI RIVER NEAR WILLIAMSBURG, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (04035), USGS National Water Information System parameter code; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Simazine, water, filtered (µg/L) (04035)	Tebuthiuron, water, filtered (µg/L) (82670)	Terbacil, water, filtered (µg/L) (82665)	Terbufos, water, filtered (µg/L) (82675)	Thiobencarb, water, filtered (µg/L) (82681)	Triallate, water, filtered (µg/L) (82678)	Trifluralin, water, filtered (µg/L) (82661)
Mar.							
28	--	--	--	--	--	--	--
May							
11	0.018	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
24	0.64	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
June							
7	2.8	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
21	1.0	0.016	<0.007	<0.013	<0.002	<0.001	<0.002
July							
6	0.18	e0.033	<0.007	<0.013	<0.002	<0.001	<0.002
18	0.092	0.013	<0.007	<0.013	<0.002	<0.001	<0.002
Aug.							
2	0.065	e0.01	<0.007	<0.013	<0.002	<0.001	<0.002
15	0.055	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
28	0.038	e0.009	<0.007	<0.013	<0.002	<0.001	<0.002

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO

LOCATION.—Latitude 39°57′51″, longitude 83°49′54″, Clark County, Hydrologic Unit 05080001, and at mile 28.8 .
DRAINAGE AREA.—310 mi^2.
REMARKS.—This station is maintained by the Miami Conservancy District. Discharge is measured at this site and published in volume 1, surface-water records.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00095), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; col/100mL; colonies per 100 milliliters; µg/L, micrograms per liter; --, no data]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, whole water field (standard units) (00400)	pH, whole water lab (standard units) (00403)	Air temperature, (deg C) (00020)	Water temperature, (deg C) (00010)	Barometric pressure, (mm of Hg) (00025)	Oxygen, dissolved (mg/L) (00300)
Oct.									
21	1330	728	738	8.2	8.2	15.0	10.0	739	11.2
Nov.									
17	1400	719	722	8.2	8.3	3.5	6.5	746	13.3
Dec.									
9	0945	742	749	8.3	8.1	3.0	5.5	743	8.7
Jan.									
4	1010	443	467	7.8	7.6	3.0	7.5	733	10.3
Feb.									
11	1130	699	721	7.8	8.0	0.0	4.5	741	11.6
Mar.									
7	0930	731	749	8.2	8.2	15.0	9.5	743	13.1
21	1020	594	613	7.9	8.2	6.0	8.5	745	11.3
Apr.									
5	0830	667	692	8.0	7.9	2.0	6.0	740	11.8
8	1220	282	307	7.6	7.7	3.0	9.5	736	10.8
25	1350	708	716	7.4	8.1	20.0	13.0	736	11.9
May									
2	1000	653	681	7.7	8.1	17.5	12.0	740	10.0
10	0920	692	724	7.7	8.0	13.5	15.5	732	8.1
16	1000	721	771	8.1	8.1	21.0	12.0	741	10.4
June									
13	1040	741	725	8.2	7.8	28.0	17.5	737	9.4
22	1000	668	671	8.3	7.9	27.5	17.5	734	8.6
28	1020	723	734	8.1	8.0	21.0	16.5	738	9.0
July									
11	1400	710	707	8.3	8.3	26.0	19.0	739	--
19	1410	670	668	8.2	8.2	18.0	--	--	--
Aug.									
16	1540	708	698	8.3	8.3	22.0	21.5	755	13.7
Sept.									
14	1000	741	738	7.3	8.3	20.0	15.0	739	--
26	1430	605	621	7.9	8.0	17.0	13.5	743	7.2

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[(00301), USGS National Water Information System parameter code; col/100 mL, colonies per 100 milliliters; mg/L, milligrams per liter; <, concentration or value reported is less than that indicated; k, value is estimated from a non-ideal colony count; IT, incremental titration; --, no data]

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli,* water whole total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Oct.									
21	102	20	35	12	2.8	<1	351	292	370
Nov.									
17	110	k20	35	12	2.0	<1	343	282	370
Dec.									
9	70	--	35	13	2.5	<1	348	286	380
Jan.									
4	102	5300	17	5.6	5.7	<1	148	122	210
Feb.									
11	92	2300	32	14	2.4	<1	283	235	340
Mar.									
7	118	55	36	10	2.2	<1	343	282	380
21	98	420	26	8.3	2.5	<1	249	207	280
Apr.									
5	98	870	31	9.7	2.2	<1	301	250	340
8	99	3800	12	3.3	4.2	<1	122	101	130
25	117	--	34	8.8	1.9	30	266	271	360
May									
2	96	1200	31	8.6	1.9	<1	301	250	330
10	85	1300	32	9.7	1.9	<1	322	267	350
16	100	--	33	9.2	4.4	30	274	275	360
June									
13	102	190	33	8.6	2.0	<1	329	274	360
22	94	760	31	9.1	2.5	<1	312	259	330
28	96	280	36	11	2.0	<1	338	281	370
July									
11	--	k44	34	9.9	2.2	24	283	276	360
19	--	2800	31	10	2.1	<1	304	252	330
Aug.									
16	151	90	34	10	2.2	7	315	274	350
Sept.									
14	--	<1	--	--	2.6	--	340	283	--
26	71	k11000	28	6.4	3.7	<1	281	233	320

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00945), USGS National Water Information System parameter code; µg/L, micrograms per liter; deg C, degrees Celsius; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)
Oct.									
21	65	29	89	10	4	0.3	8.0	417	<0.01
Nov.									
17	26	9.7	91	11	5	0.3	7.4	428	0.02
Dec.									
9	68	28	95	e7	4	0.3	8.7	453	0.01
Jan.									
4	53	20	55	37	2	0.2	6.3	282	0.03
Feb.									
11	69	30	84	15	27	0.2	6.2	433	0.02
Mar.									
7	71	23	92	21	15	0.3	5.4	450	0.02
21	52	24	70	15	8	0.3	6.9	367	0.03
Apr.									
5	60	23	84	13	14	0.3	6.9	408	0.02
8	19	7.8	34	53	e2	0.3	5.9	183	0.03
25	69	20	89	16	19	0.3	6.0	427	0.01
May									
2	60	20	82	16	15	0.2	5.2	402	0.02
10	64	22	87	e7	12	0.2	6.1	416	0.02
16	68	21	90	12	9	0.3	5.7	429	0.01
June									
13	67	21	88	e8	5	0.3	7.0	411	<0.01
22	58	20	83	e6	5	0.3	7.5	410	0.01
28	65	22	90	e6	4	0.3	6.6	435	0.01
July									
11	67	22	88	e6	3	0.7	6.3	437	0.01
19	62	21	79	<10	3	0.3	5.7	408	0.02
Aug.									
16	67	22	84	e10	5	0.3	5.1	409	0.01
Sept.									
14	69	24	--	--	--	0.3	--	458	0.01
26	56	16	84	22	10	0.3	9.1	384	0.02

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00631), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; > concentration or value reported is greater than that indicated; --, no data]

Date	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic total (mg/L as N) (00625)	Nitrogen, ammonia plus organic dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate dissolved (mg/L as P) (00671)	Carbon, organic dissolved (mg/L as C) (00681)	Carbon, organic particulate (mg/L as C) (00689)
Oct.									
21	3.9	<0.02	0.2	0.2	0.07	0.07	0.05	2.1	0.2
Nov.									
17	1.4	<0.02	0.5	0.4	0.23	0.36	0.21	1.7	0.2
Dec.									
9	3.9	<0.02	0.2	0.2	0.07	0.07	0.06	1.6	0.2
Jan.									
4	5.5	0.15	4.2	0.8	1.0	0.11	0.05	8.3	>10
Feb.									
11	3.9	0.14	1.5	0.4	0.35	0.07	0.06	2.9	>5.0
Mar.									
7	3.6	<0.02	0.2	0.2	0.04	0.02	0.02	2.0	0.3
21	6.5	0.05	1.0	0.5	0.12	0.04	0.02	4.7	1.9
Apr.									
5	5.5	<0.02	0.5	0.3	0.05	0.02	0.02	3.2	0.3
8	3.6	0.09	3.2	0.7	0.88	0.12	0.09	8.0	>10
25	4.2	<0.02	0.6	0.2	0.02	0.02	0.02	2.2	<0.2
May									
2	4.0	<0.02	0.5	0.2	0.04	0.01	<0.01	3.0	0.6
10	3.8	<0.02	0.9	0.2	0.08	0.03	0.02	2.3	0.7
16	4.2	<0.02	0.3	0.1	0.03	0.02	0.01	1.9	<0.2
June									
13	4.0	<0.02	0.2	0.2	0.04	0.03	0.03	1.7	0.2
22	3.9	<0.02	0.4	0.2	0.07	0.04	0.03	2.6	0.4
28	4.0	<0.02	0.2	0.2	0.05	0.04	0.03	1.7	<0.2
July									
11	3.6	0.02	0.2	0.2	0.06	0.05	0.05	1.7	0.3
19	3.5	<0.02	0.4	0.2	0.07	0.03	0.03	1.8	1.1
Aug.									
16	3.7	<0.02	0.2	0.2	0.05	0.04	0.04	--	--
Sept.									
14	3.7	<0.02	0.3	0.2	0.08	0.07	0.06	2.2	0.4
26	4.4	0.03	0.8	0.6	0.17	0.09	0.07	6.4	1.2

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (80154), USGS National Water Information System parameter code; µg/L, micrograms per liter; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Sediment, suspended (mg/L) (80154)	Acetochlor, water, filtered (µg/L) (49260)	Alachlor, water, filtered (µg/L) (46342)	Atrazine, water, filtered (µg/L) (39632)	Deethyl-atrazine, water, filtered (µg/L) (04040)	Methyl-azinphos, water, filtered (µg/L) (82686)	Benfluralin, water, filtered (µg/L) (82673)	Butylate, water, filtered (µg/L) (04028)
Oct.								
21	3	<0.002	<0.002	0.006	e0.006	<0.001	<0.002	<0.002
Nov.								
17	4	<0.002	<0.002	0.006	e0.005	<0.001	<0.002	<0.002
Dec.								
9	13	<0.002	<0.002	<0.001	e0.006	<0.001	<0.002	<0.002
Jan.								
4	790	<0.010	<0.002	0.067	e0.061	<0.001	<0.002	<0.002
Feb.								
11	182	<0.002	<0.002	0.016	e0.013	<0.001	<0.002	<0.002
Mar.								
7	18	<0.002	<0.002	0.008	e0.009	<0.001	<0.002	<0.002
21	28	<0.010	<0.002	0.053	e0.055	<0.001	<0.002	<0.002
Apr.								
5	30	0.008	<0.002	0.039	e0.033	<0.001	<0.002	<0.002
8	773	0.088	0.007	2.05	e0.075	<0.001	<0.002	<0.002
25	6	<0.002	<0.002	0.034	e0.018	<0.001	<0.002	<0.002
May								
2	44	0.064	0.005	0.42	e0.021	<0.001	<0.002	<0.002
10	--	0.073	<0.010	0.16	e0.020	<0.001	<0.002	<0.002
16	--	0.021	<0.002	0.14	e0.018	<0.001	<0.002	<0.002
June								
13	6	0.006	<0.002	0.082	e0.011	<0.001	<0.002	<0.002
22	43	0.012	<0.002	0.20	e0.066	<0.001	<0.002	<0.002
28	30	<0.002	<0.002	0.054	e0.013	<0.001	<0.002	<0.002
July								
11	22	<0.002	<0.002	0.024	e0.007	<0.001	<0.002	<0.002
19	94	<0.002	<0.002	0.042	e0.009	<0.001	<0.002	<0.002
Aug.								
16	26	<0.002	<0.002	0.017	e0.009	<0.001	<0.002	<0.002
Sept.								
14	24	<0.002	<0.002	0.025	e0.015	<0.001	<0.002	<0.002
26	38	<0.002	<0.002	0.094	e0.10	<0.001	<0.002	<0.002

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82680), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated;e, estimated value]

Date	Carbaryl, water, filtered (µg/L) (82680)	Carbofuran, water, filtered (µg/L) (82674)	Chlorpyrifos, water, filtered (µg/L) (38933)	Cyanazine, water, filtered (µg/L) (04041)	DCPA, water, filtered (µg/L) (82682)	p,p'-DDE, water, filtered (µg/L) (34653)	Diazinon, water, filtered (µg/L) (39572)	Dieldrin, water, filtered (µg/L) (39381)
Oct.								
21	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Nov.								
17	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Dec.								
9	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Jan.								
4	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Feb.								
11	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Mar.								
7	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
21	<0.003	<0.003	<0.004	0.011	<0.002	<0.006	e0.002	<0.001
Apr.								
5	<0.003	<0.003	<0.004	0.008	<0.002	<0.006	e0.003	<0.001
8	<0.003	<0.003	<0.004	0.019	<0.002	<0.006	0.011	<0.001
25	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
May								
2	<0.003	<0.003	<0.004	<0.010	<0.002	<0.006	<0.002	<0.001
10	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.007	<0.001
16	e0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
June								
13	<0.003	<0.003	0.006	<0.004	<0.002	<0.006	<0.002	<0.001
22	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	e0.003	<0.001
28	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
July								
11	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
19	e0.008	<0.003	<0.004	0.006	<0.002	<0.006	0.14	<0.001
Aug.								
16	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Sept.								
14	e0.023	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
26	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82660), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated]

Date	2,6-diethyl-aniline, water, filtered (µg/L) (82660)	Disulfoton, water, filtered (µg/L) (82677)	Methyl-parathion, water, filtered (µg/L) (82667)	EPTC, water, filtered (µg/L) (82668)	Ethalfluralin, water, filtered (µg/L) (82663)	Ethoprop, water, filtered (µg/L) (82672)	Fonofos, water, filtered (µg/L) (04095)	Alpha BHC, water, filtered (µg/L) (34253)
Oct.								
21	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Nov.								
17	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Dec.								
9	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Jan.								
4	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Feb.								
11	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Mar.								
7	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
21	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Apr.								
5	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
8	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
25	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
May								
2	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
10	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
16	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
June								
13	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
22	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
28	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
July								
11	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
19	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Aug.								
16	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Sept.								
14	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
26	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (39341), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Lindane, water, filtered (µg/L) (39341)	Linuron, water, filtered (µg/L) (82666)	Malathion, water, filtered (µg/L) (39532)	Metolachlor, water, filtered (µg/L) (39415)	Metribuzin, water, filtered (µg/L) (82630)	Molinate, water, filtered (µg/L) (82671)	Napropamide, water, filtered (µg/L) (82684)	Parathion, water, filtered (µg/L) (39542)
Oct.								
21	<0.004	<0.002	<0.005	e0.003	<0.004	<0.004	<0.003	<0.004
Nov.								
17	<0.004	<0.002	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004
Dec.								
9	<0.004	<0.002	<0.005	0.005	<0.004	<0.004	<0.003	<0.004
Jan.								
4	<0.004	<0.002	<0.005	0.15	<0.004	<0.004	<0.003	<0.004
Feb.								
11	<0.004	<0.002	<0.005	0.014	<0.004	<0.004	<0.003	<0.004
Mar.								
7	<0.004	<0.002	<0.005	0.005	<0.004	<0.004	<0.003	<0.004
21	<0.004	<0.002	<0.005	0.047	0.017	<0.004	<0.003	<0.004
Apr.								
5	<0.004	<0.002	<0.005	0.024	0.014	<0.004	<0.003	<0.004
8	<0.004	<0.002	<0.005	0.94	0.087	<0.004	<0.003	<0.004
25	<0.004	<0.002	<0.005	0.017	<0.004	<0.004	<0.003	<0.004
May								
2	<0.004	<0.002	<0.005	0.36	0.026	<0.004	<0.003	<0.004
10	<0.004	<0.002	<0.005	0.092	<0.004	<0.004	<0.003	<0.004
16	<0.004	<0.002	<0.005	0.038	<0.004	<0.004	<0.003	<0.004
June								
13	<0.004	<0.002	<0.005	0.027	<0.004	<0.004	<0.003	<0.004
22	<0.004	<0.002	<0.005	0.097	<0.004	<0.004	<0.003	<0.004
28	<0.004	<0.002	<0.005	0.016	<0.004	<0.004	<0.003	<0.004
July								
11	<0.004	<0.002	<0.005	0.01	<0.004	<0.004	<0.003	<0.004
19	<0.004	<0.002	<0.005	0.018	<0.004	<0.004	<0.003	<0.004
Aug.								
16	<0.004	<0.002	<0.005	0.007	<0.004	<0.004	<0.003	<0.004
Sept.								
14	<0.004	<0.002	<0.005	0.007	<0.004	<0.004	<0.003	<0.004
26	<0.004	<0.002	<0.012	0.051	<0.004	<0.004	<0.003	<0.004

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82669), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Pebulate, water, filtered (µg/L) (82669)	Pendimethalin, water, filtered (µg/L) (82683)	Permethrin, cis, water, filtered (µg/L) (82687)	Phorate, water, filtered (µg/L) (82664)	Prometon, water, filtered (µg/L) (04037)	Pronamide, water, filtered (µg/L) (82676)	Propachlor, water, filtered (µg/L) (04024)	Propanil, water, filtered (µg/L) (82679)
Oct.								
21	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
Nov.								
17	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
Dec.								
9	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
Jan.								
4	<0.004	<0.004	<0.005	<0.002	e0.005	<0.003	<0.007	<0.004
Feb.								
11	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
Mar.								
7	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
21	<0.004	<0.004	<0.005	<0.002	e0.002	<0.003	<0.007	<0.004
Apr.								
5	<0.004	<0.004	<0.005	<0.002	e0.003	<0.003	<0.007	<0.004
8	<0.004	<0.004	<0.005	<0.002	e0.006	<0.003	<0.007	<0.004
25	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
May								
2	<0.004	<0.004	<0.005	<0.002	e0.008	<0.003	<0.007	<0.004
10	<0.004	<0.004	<0.005	<0.002	e0.008	<0.003	<0.007	<0.004
16	<0.004	<0.004	<0.005	<0.002	e0.003	<0.003	<0.007	<0.004
June								
13	<0.004	<0.004	<0.005	<0.002	e0.002	<0.003	<0.007	<0.004
22	<0.004	<0.004	<0.005	<0.002	e0.005	<0.003	<0.007	<0.004
28	<0.004	<0.004	<0.005	<0.002	e0.004	<0.003	<0.007	<0.004
July								
11	<0.004	<0.004	<0.005	<0.002	e0.004	<0.003	<0.007	<0.004
19	<0.004	<0.004	<0.005	<0.002	e0.009	<0.003	<0.007	<0.004
Aug.								
16	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004
Sept.								
14	<0.004	<0.004	<0.005	<0.002	e0.002	<0.003	<0.007	<0.004
26	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004

03267900 MAD RIVER AT ST. PARIS PIKE NEAR EAGLE CITY, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82685), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Propargite, water, filtered (µg/L) (82685)	Simazine, water, filtered (µg/L) (04035)	Tebuthiuron, water, filtered (µg/L) (82670)	Terbacil, water, filtered (µg/L) (82665)	Terbufos, water, filtered (µg/L) (82675)	Thiobencarb, water, filtered (µg/L) (82681)	Triallate, water, filtered (µg/L) (82678)	Trifluralin, water, filtered (µg/L) (82661)
Oct.								
21	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Nov.								
17	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Dec.								
9	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Jan.								
4	<0.013	0.022	0.018	<0.007	<0.013	<0.002	<0.001	<0.002
Feb.								
11	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Mar.								
7	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
21	<0.013	0.01	e0.005	<0.007	<0.013	<0.002	<0.001	<0.002
Apr.								
5	<0.013	0.007	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
8	<0.013	0.27	<0.02	<0.007	<0.013	<0.002	<0.001	<0.002
25	<0.013	0.009	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
May								
2	<0.013	0.028	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
10	<0.013	0.018	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
16	<0.013	0.009	e0.004	<0.007	<0.013	<0.002	<0.001	<0.002
June								
13	<0.013	0.006	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
22	<0.013	0.032	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
28	<0.013	0.008	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
July								
11	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
19	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Aug.								
16	<0.013	e0.004	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Sept.								
14	<0.013	e0.004	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
26	<0.013	0.009	<0.01	e0.054	<0.013	<0.002	<0.001	<0.002

03274000 GREAT MIAMI RIVER AT HAMILTON, OHIO

LOCATION.—Latitude 39°23′28″, longitude 84°34′20″, Butler County, Hydrologic Unit 05080002, at mile 34.8 .
DRAINAGE AREA.—3,630 mi^2.
REMARKS.—Sampling was temporarily moved downstream to Great Miami River at Venice, Ohio (03274500) during bridge construction at this site. Discharge is measured at this site and published in volume 1, surface-water records.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00095), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; --, no data; col/100mL; colonies per 100 milliliters; <, concentration or value reported is less than that indicated; k, value is estimated from a non-ideal colony count; IT, incremental titration]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, whole water field (standard units) (00400)	pH, whole water lab (standard units) (00403)	Water temperature, (deg C) (00010)	Air temperature, (deg C) (00020)	Barometric pressure, (mm of Hg) (00025)	Dissolved oxygen (mg/L) (00300)
Oct.									
12	1100	1040	967	7.7	8.1	18.0	17.0	752	8.9
18	1530	1040	1050	8.2	8.1	17.0	12.0	749	11.2
Nov.									
2	1000	1040	1050	8.7	8.3	14.5	6.0	740	11.1
16	1330	1090	1130	8.3	8.2	11.0	5.0	748	8.3
Dec.									
2	0930	1080	1110	8.9	8.1	6.0	9.0	753	9.6
7	1300	1060	1110	8.4	8.1	8.5	7.0	752	11.5
Jan.									
4	1400	428	451	7.8	7.5	9.0	0.0	747	11.3
Feb.									
10	1040	1190	1240	8.8	8.4	8.0	10.0	742	14.2
14	1130	513	554	8.0	7.6	2.5	0.0	744	13.9
Mar.									
8	1120	878	875	8.0	8.1	13.0	25.0	745	12.0
21	1430	633	647	8.0	8.0	9.0	14.0	754	12.1
Apr.									
8	1720	367	380	7.7	7.7	10.5	7.5	749	12.0
July									
13	1130	771	790	8.6	8.4	27.5	31.0	744	10.0
19	1050	722	714	7.8	7.9	--	18.0	--	--

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli,* water, whole, total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Oct.									
12	95	1700	30	84	6.1	12	242	221	300
18	117	180	32	86	7.1	<1	239	196	330
Nov.									
2	112	k200	31	87	5.9	10	270	240	320
16	76	k100	34	92	6.9	<1	298	245	350
Dec.									
2	79	340	35	94	6.8	<1	301	247	370
7	100	100	32	92	6.6	<1	299	246	340
Jan.									
4	102	5100	12	26	4.2	<1	120	98	150
Feb.									
10	120	60	34	109	5.6	17	246	233	370
14	104	2500	16	31	4.2	<1	67	56	180
Mar.									
8	116	62	33	48	4.0	<1	288	236	350
21	106	310	22	28	3.2	<1	204	169	240
Apr.									
8	110	5900	13	12	3.4	<1	118	98	150
July									
13	130	420	28	40	4.1	14	246	229	300
19	--	k780	22	47	4.1	<1	187	155	240

03274000 GREAT MIAMI RIVER AT HAMILTON, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00945), USGS National Water Information System parameter code; µg/L, micrograms per liter; deg C, degrees Celsius; <, concentration or value reported is less than that indicated; --, no data; >, concentration or value reported is greater than that indicated; e, estimated value]

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)
Oct.									
12	85	128	72	e6	e2	0.6	5.4	583	0.03
18	97	136	82	<10	e2	0.7	4.8	602	0.03
Nov.									
2	99	134	77	13	10	0.7	2.1	612	0.03
16	102	134	85	e10	3	0.7	4.2	652	0.04
Dec.									
2	102	146	91	16	5	0.7	4.0	656	0.03
7	107	139	84	23	9	0.6	4.0	658	0.04
Jan.									
4	35	48	39	29	e2	0.2	4.1	251	0.02
Feb.									
10	100	178	90	24	17	0.6	1.2	726	0.04
14	34	63	44	29	3	0.3	5.1	306	0.02
Mar.									
8	77	82	85	e10	e2	0.4	2.3	519	0.02
21	45	58	59	12	4	0.3	4.6	373	0.02
Apr.									
8	23	23	38	31	e1	0.3	4.6	220	0.03
July									
13	61	70	73	<10	<2	0.4	4.9	474	0.02
19	70	79	46	<10	<2	0.5	0.1	404	0.03

Date	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate, dissolved (mg/L as P) (00671)	Carbon, organic, dissolved (mg/L as C) (00681)	Carbon, organic, particulate (mg/L as C) (00689)
Oct.									
12	2.8	0.02	0.51	0.4	0.27	0.18	0.21	4.8	3.4
18	2.8	0.05	1.4	0.5	0.37	0.22	0.21	4.9	2.4
Nov.									
2	2.3	0.03	1.3	0.5	0.41	0.23	0.20	--	--
16	3.0	0.08	1.2	0.7	0.45	0.32	0.24	4.7	1.7
Dec.									
2	4.3	0.03	0.93	0.6	0.46	0.37	0.32	4.9	0.6
7	3.4	0.10	1.1	0.8	0.48	0.39	0.33	5.6	1.0
Jan.									
4	2.5	0.10	2.6	0.5	0.90	0.18	0.16	6.5	9.7
Feb.									
10	3.6	<0.02	0.69	0.5	0.31	0.24	0.20	4.6	0.4
14	5.5	0.16	2.2	0.8	0.71	0.17	0.15	6.3	1.9
Mar.									
8	4.8	<0.02	0.89	0.6	0.19	0.11	0.08	3.9	2.2
21	5.8	0.05	1.2	0.7	0.31	0.12	0.08	5.3	3.8
Apr.									
8	3.2	0.09	2.6	0.5	0.86	0.09	0.07	6.0	>10
July									
13	3.7	<0.02	1.0	0.4	0.29	0.14	0.12	4.5	2.9
19	1.6	0.02	1.6	0.4	0.23	0.03	0.01	3.6	4.5

03274000 GREAT MIAMI RIVER AT HAMILTON, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (80154), USGS National Water Information System parameter code; µg/L, micrograms per liter; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Sediment, suspended (mg/L) (80154)	Acetochlor, water, filtered (µg/L) (49260)	Alachlor, water, filtered (µg/L) (46342)	Atrazine, water, filtered (µg/L) (39632)	Deethyl-atrazine, water, filtered (µg/L) (04040)	Methyl-azinphos, water, filtered (µg/L) (82686)	Benfluralin, water, filtered (µg/L) (82673)	Butylate, water, filtered (µg/L) (04028)
Oct.								
12	72	<0.002	<0.002	0.035	e0.011	<0.001	<0.002	<0.002
18	87	<0.002	<0.002	0.039	e0.013	<0.001	<0.002	<0.002
Nov.								
2	74	--	--	--	--	--	--	--
16	28	<0.002	<0.002	0.036	e0.014	<0.001	<0.002	<0.002
Dec.								
2	8	<0.002	<0.002	0.035	e0.010	<0.001	<0.002	<0.002
7	21	<0.002	<0.002	0.042	e0.013	<0.001	<0.002	<0.002
Jan.								
4	471	<0.002	<0.002	0.071	e0.032	<0.001	<0.002	<0.002
Feb.								
10	15	<0.002	<0.002	0.035	e0.014	<0.001	<0.002	<0.002
14	415	<0.01	0.004	0.13	e0.036	<0.001	<0.002	<0.002
Mar.								
8	25	<0.002	<0.002	0.061	e0.044	<0.001	<0.002	<0.002
21	85	<0.01	0.011	0.21	e0.065	<0.001	<0.002	<0.002
Apr.								
8	627	0.042	0.013	0.69	e0.072	<0.001	<0.002	<0.002
July								
13	38	0.018	<0.002	0.53	e0.15	<0.001	<0.002	<0.002
19	39	<0.002	<0.002	0.30	e0.089	<0.001	<0.002	<0.002

Date	Carbaryl, water, filtered (µg/L) (82680)	Carbofuran, water, filtered (µg/L) (82674)	Chlorpyrifos, water, filtered (µg/L) (38933)	Cyanazine, water, filtered (µg/L) (04041)	DCPA, water, filtered (µg/L) (82682)	p,p'-DDE, water, filtered (µg/L) (34653)	Diazinon, water, filtered (µg/L) (39572)	Dieldrin, water, filtered (µg/L) (39381)
Oct.								
12	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.020	<0.001
18	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.010	<0.001
Nov.								
2	--	--	--	--	--	--	--	--
16	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.014	<0.001
Dec.								
2	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.012	<0.001
7	<0.03	<0.01	<0.004	<0.004	<0.002	<0.006	0.12	<0.001
Jan.								
4	<0.02	<0.003	<0.004	0.009	<0.002	<0.006	0.026	<0.001
Feb.								
10	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.013	<0.001
14	<0.003	<0.003	<0.004	0.014	<0.002	<0.006	0.008	<0.001
Mar.								
8	<0.003	<0.003	<0.004	<0.01	<0.002	<0.006	0.010	<0.001
21	<0.003	<0.003	<0.004	0.014	<0.002	<0.006	0.008	<0.001
Apr.								
8	e0.007	<0.003	e0.003	0.043	<0.002	<0.006	0.057	<0.001
July								
13	<0.003	<0.003	<0.004	0.013	<0.002	<0.006	0.016	<0.001
19	<0.003	<0.003	<0.004	0.009	<0.002	<0.006	0.014	<0.001

03274000 GREAT MIAMI RIVER AT HAMILTON, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82660), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data]

Date	2,6-diethyl-aniline, water, filtered (µg/L) (82660)	Disulfoton, water, filtered (µg/L) (82677)	Methyl-parathion, water, filtered (µg/L) (82667)	EPTC, water, filtered (µg/L) (82668)	Ethalfluralin, water, filtered (µg/L) (82663)	Ethoprop, water, filtered (µg/L) (82672)	Fonofos, water, filtered (µg/L) (04095)	Alpha BHC, water, filtered (µg/L) (34253)
Oct.								
12	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
18	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Nov.								
2	--	--	--	--	--	--	--	--
16	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Dec.								
2	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
7	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Jan.								
4	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Feb.								
10	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
14	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Mar.								
8	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
21	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Apr.								
8	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
July								
13	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
19	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002

Date	Lindane, water, filtered (µg/L) (39341)	Linuron, water, filtered (µg/L) (82666)	Malathion, water, filtered (µg/L) (39532)	Metolachlor, water, filtered (µg/L) (39415)	Metribuzin, water, filtered (µg/L) (82630)	Molinate, water, filtered (µg/L) (82671)	Napropamide, water, filtered (µg/L) (82684)	Parathion, water, filtered (µg/L) (39542)
Oct.								
12	<0.004	<0.002	<0.005	0.011	<0.004	<0.004	<0.003	<0.004
18	<0.004	<0.002	<0.005	0.011	<0.004	<0.004	<0.003	<0.004
Nov.								
2	--	--	--	--	--	--	--	--
16	<0.004	<0.002	<0.005	0.012	<0.004	<0.004	<0.003	<0.004
Dec.								
2	<0.004	<0.002	<0.005	0.013	<0.004	<0.004	<0.003	<0.004
7	<0.004	<0.002	<0.005	0.011	<0.004	<0.004	<0.003	<0.004
Jan.								
4	<0.004	<0.002	<0.005	0.14	0.21	<0.004	<0.01	<0.004
Feb.								
10	<0.004	<0.002	<0.005	0.013	<0.004	<0.004	<0.003	<0.004
14	<0.004	<0.002	<0.005	0.13	0.054	<0.004	<0.003	<0.004
Mar.								
8	<0.004	<0.002	<0.005	0.033	<0.004	<0.004	<0.003	<0.004
21	<0.004	<0.002	<0.005	0.18	0.063	<0.004	<0.003	<0.004
Apr.								
8	<0.004	<0.002	<0.005	0.54	0.068	<0.004	<0.003	<0.004
July								
13	<0.004	<0.02	<0.005	0.17	0.007	<0.004	<0.003	<0.004
19	<0.004	<0.002	<0.005	0.080	<0.004	<0.004	<0.003	<0.004

03274000 GREAT MIAMI RIVER AT HAMILTON, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82669), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Pebulate, water, filtered (µg/L) (82669)	Pendimethalin, water, filtered (µg/L) (82683)	Permethrin, cis, water, filtered (µg/L) (82687)	Phorate, water, filtered (µg/L) (82664)	Prometon, water, filtered (µg/L) (04037)	Pronamide, water, filtered (µg/L) (82676)	Propachlor, water, filtered (µg/L) (04024)	Propanil, water, filtered (µg/L) (82679)
Oct.								
12	<0.004	<0.004	<0.005	<0.002	0.047	<0.003	<0.007	<0.004
18	<0.004	<0.004	<0.005	<0.002	0.032	<0.003	<0.007	<0.004
Nov.								
2	--	--	--	--	--	--	--	--
16	<0.004	<0.004	<0.005	<0.002	0.033	<0.003	<0.007	<0.004
Dec.								
2	<0.004	<0.004	<0.005	<0.002	e0.015	<0.003	<0.007	<0.004
7	<0.004	<0.004	<0.005	<0.002	e0.016	<0.003	<0.007	<0.004
Jan.								
4	<0.004	<0.004	<0.005	<0.002	0.038	<0.003	<0.007	<0.004
Feb.								
10	<0.004	<0.004	<0.005	<0.002	e0.011	<0.003	<0.007	<0.004
14	<0.004	<0.004	<0.005	<0.002	e0.016	<0.003	<0.007	<0.004
Mar.								
8	<0.004	<0.004	<0.005	<0.002	e0.007	<0.003	<0.007	<0.004
21	<0.004	<0.004	<0.005	<0.002	e0.011	<0.003	<0.007	<0.004
Apr.								
8	<0.004	e0.016	<0.005	<0.002	0.035	<0.003	<0.007	<0.004
July								
13	<0.004	<0.004	<0.005	<0.002	0.26	<0.003	<0.007	<0.004
19	<0.004	<0.004	<0.005	<0.002	0.059	<0.003	<0.007	<0.004

Date	Propargite, water, filtered (µg/L) (82685)	Simazine, water, filtered (µg/L) (04035)	Tebuthiuron, water, filtered (µg/L) (82670)	Terbacil, water, filtered (µg/L) (82665)	Terbufos, water, filtered (µg/L) (82675)	Thiobencarb, water, filtered (µg/L) (82681)	Triallate, water, filtered (µg/L) (82678)	Trifluralin, water, filtered (µg/L) (82661)
Oct.								
12	<0.013	<0.01	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
18	<0.013	0.013	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Nov.								
2	--	--	--	--	--	--	--	--
16	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Dec.								
2	<0.013	0.01	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
7	<0.013	0.02	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Jan.								
4	<0.013	0.02	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Feb.								
10	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
14	<0.013	0.023	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Mar.								
8	<0.013	0.009	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
21	<0.013	0.071	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Apr.								
8	<0.013	0.21	<0.01	<0.007	<0.013	<0.002	<0.001	e0.001
July								
13	<0.013	0.038	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
19	<0.013	0.025	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002

03274500 GREAT MIAMI RIVER AT VENICE, OHIO

LOCATION.—Latitude 39°18′15″, longitude 84°38′35″, Butler County, Hydrologic Unit 05080002, at mile 25.6 .
DRAINAGE AREA.—3,789 mi^2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00095), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; --, no data; col/100mL; colonies per 100 milliliters; <, concentration or value reported is less than that indicated; k, value is estimated from a non-ideal colony count; IT, incremental titration; e, estimated value]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, water, field (standard units) (00400)	pH, water, lab (standard units) (00403)	Water temperature (deg C) (00010)	Air temperature (deg C) (00020)	Barometric pressure (mm of Hg) (00025)	Dissolved oxygen (mg/L) (00300)
Apr.									
26	1140	699	725	8.4	7.9	16.0	14.0	749	10.1
May									
3	1040	747	778	8.4	7.9	18.0	18.0	750	9.8
June									
1	1130	689	751	8.2	8.2	29.0	23.0	749	10.0
14	1110	819	814	8.7	8.1	28.0	26.5	745	8.2
29	1100	686	670	8.1	8.0	26.0	24.0	736	8.1
Aug.									
16	1100	752	745	8.1	8.2	26.0	26.5	755	7.7
Sept.									
13	1200	929	955	7.3	8.1	24.0	23.0	748	--
25	1310	811	781	8.3	7.8	14.0	19.5	745	8.2

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli,* water, whole, total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Apr.									
26	100	410	27	27	2.9	30	192	210	300
May									
3	104	1500	29	36	3.0	12	231	212	300
June									
1	118	k90	27	25	3.1	24	228	227	290
14	103	6300	31	47	4.1	14	225	211	310
29	98	k520	27	28	3.8	<1	244	203	290
Aug.									
16	97	2100	25	43	5.1	5	246	213	270
Sept.									
13	--	120	29	70	5.6	<1	281	233	300
25	88	2900	26	51	5.6	<1	242	201	280

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)
Apr.									
26	59	51	74	e7	e2	1.7	5.3	420	0.02
May									
3	67	65	74	e6	e2	0.4	1.3	441	0.02
June									
1	59	54	74	<10	e1	0.3	4.9	444	0.02
14	72	77	73	e6	<2	0.4	2.5	476	0.11
29	54	49	72	<10	e2	0.3	7.8	406	0.02
Aug.									
16	61	70	67	<10	e2	0.4	7.9	445	0.02
Sept.									
13	87	107	74	<10	3	0.6	5.9	559	0.02
25	64	83	69	e6	<2	0.5	4.9	453	0.02

03274500 GREAT MIAMI RIVER AT VENICE, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00631), USGS National Water Information System parameter code; µg/L, micrograms per liter; <, concentration or value reported is less than that indicated; >, concentration or value reported is greater than that indicated; --, no data; e, estimated value]

Date	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate, dissolved (mg/L as P) (00671)	Carbon, organic, dissolved (mg/L as C) (00681)	Carbon, organic, particulate (mg/L as C) (00689)
Apr.									
26	6.6	<0.02	0.85	0.43	0.22	0.09	0.07	4.5	1.1
May									
3	3.8	<0.02	1.0	0.36	0.19	0.04	0.02	4.0	>2.5
June									
1	6.5	<0.02	1.0	0.36	0.21	0.14	0.12	3.8	1.7
14	4.3	0.04	1.4	0.48	0.16	0.07	0.04	4.4	1.6
29	6.4	<0.02	0.76	0.51	0.26	0.18	0.14	4.5	1.0
Aug.									
16	2.6	<0.02	0.97	0.51	0.19	0.21	0.16	--	--
Sept.									
13	2.4	0.06	1.0	0.55	0.42	0.32	0.28	4.2	1.8
25	2.7	0.09	1.3	0.65	0.67	<0.05	0.29	5.7	5.4

Date	Sediment, suspended (mg/L) (80154)	Acetochlor, water, filtered (µg/L) (49260)	Alachlor, water, filtered (µg/L) (46342)	Atrazine, water, filtered (µg/L) (39632)	Deethyl-atrazine, water, filtered (µg/L) (04040)	Methyl-azinphos, water, filtered (µg/L) (82686)	Benfluralin, water, filtered (µg/L) (82673)	Butylate, water, filtered (µg/L) (04028)	Carbaryl, water, filtered (µg/L) (82680)
Apr.									
26	47	0.014	0.025	0.20	e0.055	<0.001	<0.002	<0.002	<0.003
May									
3	38	0.075	0.011	0.19	e0.045	<0.001	<0.002	<0.002	e0.018
June									
1	35	0.34	0.031	3.4	e0.24	<0.001	<0.002	<0.002	<0.003
14	18	0.081	0.009	1.2	e0.17	<0.001	<0.002	<0.002	<0.003
29	39	0.077	0.014	1.6	e0.38	<0.001	<0.002	<0.002	<0.003
Aug.									
16	33	<0.002	<0.002	0.29	e0.18	<0.001	<0.002	<0.002	<0.003
Sept.									
13	45	<0.002	<0.002	0.13	e0.035	<0.001	<0.002	<0.002	<0.003
25	189	<0.002	<0.002	0.13	e0.048	<0.001	<0.002	<0.002	<0.003

Date	Carbofuran, water, filtered (µg/L) (82674)	Chlorpyrifos, water, filtered (µg/L) (38933)	Cyanazine, water, filtered (µg/L) (04041)	DCPA, water, filtered (µg/L) (82682)	p,p'-DDE, water, filtered (µg/L) (34653)	Diazinon, water, filtered (µg/L) (39572)	Dieldrin, water, filtered (µg/L) (39381)	2,6-diethyl--aniline, water, filtered (µg/L) (82660)	Disulfoton, water, filtered (µg/L) (82677)
Apr.									
26	<0.003	<0.004	0.015	<0.002	<0.006	0.005	<0.001	<0.003	<0.017
May									
3	<0.003	<0.004	<0.01	<0.002	<0.006	0.017	<0.001	<0.003	<0.017
June									
1	<0.003	<0.004	0.035	<0.002	<0.006	0.009	<0.001	<0.003	<0.017
14	<0.003	<0.004	0.019	<0.002	<0.006	0.006	<0.001	<0.003	<0.017
29	<0.003	<0.004	0.025	<0.002	<0.006	0.009	<0.001	<0.003	<0.017
Aug.									
16	<0.003	<0.004	0.008	<0.002	<0.006	0.010	<0.001	<0.003	<0.017
Sept.									
13	<0.003	<0.004	0.017	<0.002	<0.006	0.012	<0.001	<0.003	<0.017
25	<0.003	<0.004	<0.004	<0.002	<0.006	0.058	<0.05	<0.003	<0.017

03274500 GREAT MIAMI RIVER AT VENICE, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82667), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Methyl-parathion, water, filtered (µg/L) (82667)	EPTC, water, filtered (µg/L) (82668)	Ethalfluralin, water, filtered (µg/L) (82663)	Ethoprop, water, filtered (µg/L) (82672)	Fonofos, water, filtered (µg/L) (04095)	Alpha BHC, water, filtered (µg/L) (34253)	Lindane, water, filtered (µg/L) (39341)	Linuron, water, filtered (µg/L) (82666)
Apr.								
26	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
May								
3	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
June								
1	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
14	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
29	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
Aug.								
16	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
Sept.								
13	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
25	<0.002	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002

Date	Malathion, water, filtered (µg/L) (39532)	Metolachlor, water, filtered (µg/L) (39415)	Metribuzin, water, filtered (µg/L) (82630)	Molinate, water, filtered (µg/L) (82671)	Napropamide, water, filtered (µg/L) (82684)	Parathion, water, filtered (µg/L) (39542)	Pebulate, water, filtered (µg/L) (82669)	Pendimethalin, water, filtered (µg/L) (82683)
Apr.								
26	<0.005	0.14	0.027	<0.004	<0.003	<0.004	<0.004	<0.004
May								
3	<0.005	0.080	<0.004	<0.004	<0.003	<0.004	<0.004	<0.004
June								
1	<0.005	0.92	0.034	<0.004	<0.003	<0.004	<0.004	<0.004
14	<0.005	0.32	0.008	<0.004	<0.003	<0.004	<0.004	<0.004
29	<0.005	0.72	0.033	<0.004	<0.003	<0.004	<0.004	<0.004
Aug.								
16	<0.005	0.20	<0.004	<0.004	<0.003	<0.004	<0.004	<0.004
Sept.								
13	<0.005	0.031	<0.004	<0.004	<0.003	<0.004	<0.004	<0.004
25	<0.005	0.039	<0.004	<0.004	<0.003	<0.004	<0.004	<0.004

Date	Permethrin, cis, water, filtered (µg/L) (82687)	Phorate, water, filtered (µg/L) (82664)	Prometon, water, filtered (µg/L) (04037)	Pronamide, water, filtered (µg/L) (82676)	Propachlor, water, filtered (µg/L) (04024)	Propanil, water, filtered (µg/L) (82679)	Propargite, water, filtered (µg/L) (82685)	Simazine, water, filtered (µg/L) (04035)
Apr.								
26	<0.005	<0.002	e0.012	<0.003	<0.007	<0.004	<0.013	0.07
May								
3	<0.005	<0.002	e0.015	<0.003	<0.007	<0.004	<0.013	0.057
June								
1	<0.005	<0.002	0.026	<0.003	<0.007	<0.004	<0.013	0.40
14	<0.005	<0.002	0.028	<0.003	<0.007	<0.004	<0.013	0.12
29	<0.005	<0.002	0.047	<0.003	<0.007	<0.004	<0.013	0.10
Aug.								
16	<0.005	<0.002	0.027	<0.003	<0.007	<0.004	<0.013	0.038
Sept.								
13	<0.005	<0.002	0.051	<0.003	<0.007	<0.004	<0.013	0.016
25	<0.005	<0.002	0.104	<0.003	<0.007	<0.004	<0.013	0.012

03274500 GREAT MIAMI RIVER AT VENICE, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82670), USGS National Water Information System parameter code; e, estimated value]

Date	Tebuthiuron, water, filtered (µg/L) (82670)	Terbacil, water, filtered (µg/L) (82665)	Terbufos, water, filtered (µg/L) (82675)	Thiobencarb, water, filtered (µg/L) (82681)	Triallate, water, filtered (µg/L) (82678)	Trifluralin, water, filtered (µg/L) (82661)
Apr.						
26	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
May						
3	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
June						
1	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
14	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
29	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Aug.						
16	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Sept.						
13	<0.01	e0.048	<0.013	<0.002	<0.001	<0.002
25	<0.01	e0.071	<0.013	<0.002	<0.001	<0.002

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO

LOCATION.—Latitude 39°39′44″, longitude 84°12′07″, Montgomery County, Hydrologic Unit 05080001, and at mile 2.6.
DRAINAGE AREA.—20.0 mi^2.
REMARKS.—Twenty-four discharge measurements were made at this site. Streamflow computed from these measurements is reported below. Continuous stage data is collected at Holes Creek at Mad River Road (03271300), a station 0.6 mi upstream of the sampling site that is maintained by the Miami Conservancy District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[ft^3/s, cubic feet per second; (00061), USGS National Water Information System parameter code; µS/cm, microsiemens per centimeter; deg C, degrees Celsius; mm of Hg, millimeters of mercury; <, concentration or value reported is less than that indicated; --, no data; mg/L, milligrams per liter; k, value is estimated from a non-ideal colony count]

Date	Time	Discharge, instantaneous (ft/s^3) (00061)	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, whole water field (standard units) (00400)	pH, whole water lab (standard units) (00403)	Water temperature, (deg C) (00010)	Air temperature, (deg C) (00020)	Barometric pressure, (mm of Hg) (00025)
Oct.									
12	1320	1.0	608	567	8.0	8.1	15.0	21.0	745
19	0940	<1.7	688	700	8.3	8.1	8.5	5.0	749
Nov.									
2	1300	53	548	559	7.9	7.6	10.5	5.0	736
17	0930	4.0	771	789	8.5	8.2	3.0	1.0	746
Dec.									
2	1130	2.0	720	752	8.1	8.2	2.0	10.0	748
8	0930	4.1	624	637	8.3	8.0	1.5	1.0	749
Jan.									
4	1140	90	464	473	7.1	7.6	8.5	1.0	741
Feb.									
10	1500	19	3240	3310	7.9	7.9	0.0	7.0	734
13	1820	439	1020	941	7.9	7.6	3.0	3.0	733
Mar.									
9	1340	4.1	1110	1100	8.2	8.3	15.5	19.0	735
22	0830	21	936	960	8.1	8.5	7.0	4.0	752
Apr.									
3	1200	133	620	644	7.8	8.0	13.5	18.0	734
25	1000	11	807	832	8.0	8.3	11.0	18.0	740
May									
2	1540	25	656	669	8.1	8.1	19.5	23.0	743
10	1220	36	702	730	8.3	8.0	20.5	26.0	737
31	1130	6.8	673	688	8.3	8.2	21.5	32.0	741
June									
15	1240	2.8	698	702	8.2	8.1	23.0	28.5	737
20	0950	7.6	620	619	8.2	8.0	19.5	25.0	744
29	1440	4.1	755	773	8.4	8.2	23.0	29.0	739
July									
11	1020	12	712	714	8.3	8.3	22.5	24.5	738
11	1600	90	595	607	8.1	8.1	24.0	28.0	739
Aug.									
14	1050	1.7	723	714	8.1	8.2	21.0	--	747
Sept.									
13	0830	1.0	667	691	7.8	8.0	18.0	12.0	746
26	1100	33	359	356	8.1	7.8	13.0	16.0	747

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00300), USGS National Water Information System parameter code; col/100mL, colonies per 100 milliliters; k, value is estimated from a non-ideal colony count; IT, incremental titration; <, concentration or value reported is less than that indicated; --, no data]

Date	Dissolved oxygen (mg/L) (00300)	Oxygen, dissolved (percent of saturation) (00301)	*E. coli*, water, whole, total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)
Oct.									
12	10.0	101	80	18	32	2.8	12	174	165
19	12.1	106	100	24	34	2.9	<1	257	214
Nov.									
2	11.3	104	k21000	18	30	4.3	<1	174	145
17	13.1	98	k20	32	39	2.5	<1	299	246
Dec.									
2	14.5	107	30	27	40	2.5	<1	284	233
8	11.9	86	220	19	34	2.7	<1	218	179
Jan.									
4	10.8	93	1500	11	36	3.7	<1	108	89
Feb.									
10	13.5	96	280	32	492	6.2	<1	179	149
13	13.0	100	3300	10	119	3.1	<1	94	78
Mar.									
9	12.4	128	17	33	99	3.1	<1	230	188
22	12.0	101	--	23	81	3.0	<1	234	194
Apr.									
3	10.3	104	2200	15	54	2.5	<1	149	124
25	11.8	110	110	26	52	2.6	30	205	221
May									
2	9.5	106	1900	19	47	2.6	30	128	157
10	8.4	97	k800	20	51	2.7	12	167	159
31	9.1	106	k110	21	40	2.9	<1	228	186
June									
15	9.4	113	850	21	48	3.0	<1	220	182
20	8.8	99	300	18	36	4.7	<1	212	176
29	9.6	113	k70	25	50	2.6	12	229	211
July									
11	--	--	220	23	45	3.2	<1	247	203
11	--	--	4400	18	39	3.3	<1	195	160
Aug.									
14	8.9	101	220	25	45	4.0	<1	242	201
Sept.									
13	--	--	430	22	41	2.9	<1	225	186
26	10.6	101	2500	9.8	21	2.6	<1	116	96

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00900), USGS National Water Information System parameter code; µg/L, micrograms per liter; deg C, degrees Celsius; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Hardness, total (mg/L as $CaCO_3$) (00900)	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)
Oct.									
12	205	35	60	53	12	6	0.2	5.4	318
19	268	39	70	67	33	7	0.3	6.8	388
Nov.									
2	196	36	60	50	47	64	0.3	4.6	314
17	323	21	39	77	e8	5	0.3	5.7	426
Dec.									
2	310	42	80	79	12	5	0.3	4.5	408
8	225	37	69	59	11	4	0.2	3.3	360
Jan.									
4	139	30	67	38	14	8	0.1	3.8	257
Feb.									
10	386	57	916	102	<10	61	0.2	4.1	1840
13	135	24	214	37	23	18	0.1	3.1	478
Mar.									
9	323	63	189	74	22	10	0.3	1.2	620
22	270	47	150	70	13	11	0.2	5.0	529
Apr.									
3	180	31	98	48	13	10	0.1	3.9	346
25	289	44	98	73	e8	9	0.3	3.9	462
May									
2	213	34	82	54	<10	8	0.1	3.3	364
10	222	35	96	56	<10	3	0.2	3.2	412
31	236	33	78	60	e5	9	0.2	4.9	379
June									
15	231	33	92	57	<10	11	0.2	5.0	397
20	218	33	68	57	e6	5	0.2	6.9	371
29	268	36	94	66	<10	9	0.2	6.0	427
July									
11	254	35	82	64	<10	4	0.2	6.8	410
11	205	28	73	53	<10	<2	0.6	6.4	353
Aug.									
14	272	34	88	68	<10	11	0.2	4.6	404
Sept.									
13	238	32	80	59	<10	5	0.2	5.0	386
26	125	21	34	34	13	3	0.2	3.8	197

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00613), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated; --, no data; e, estimated value]

Date	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate, dissolved (mg/L as P) (00671)	Carbon, organic, dissolved (mg/L as C) (00681)
Oct.									
12	<0.01	0.47	<0.02	0.25	0.25	0.02	0.01	<0.01	4.3
19	<0.01	0.72	<0.02	0.30	0.19	0.01	0.006	<0.01	3.4
Nov.									
2	0.02	0.50	0.03	0.74	0.39	0.11	0.04	0.02	10
17	<0.01	0.80	<0.02	0.16	0.12	e0.005	0.01	<0.01	2.1
Dec.									
2	<0.01	0.83	<0.02	0.23	0.15	e0.007	0.007	0.04	3.1
8	<0.01	0.52	<0.02	0.37	0.33	0.02	e0.005	<0.01	4.3
Jan.									
4	0.01	1.1	0.04	1.1	0.36	0.30	0.05	0.05	5.2
Feb.									
10	0.02	1.2	0.08	0.50	0.39	0.03	0.006	<0.01	4.0
13	0.02	1.0	0.11	1.9	0.39	0.60	0.04	0.03	4.8
Mar.									
9	<0.01	0.71	<0.02	0.30	0.32	0.02	e0.005	<0.01	3.3
22	0.01	1.7	<0.02	0.60	0.44	0.07	0.01	<0.01	4.7
Apr.									
3	0.01	0.81	0.04	1.0	0.49	0.16	0.02	<0.01	5.8
25	<0.01	1.1	<0.02	0.44	0.33	0.04	0.01	<0.01	4.1
May									
2	0.03	0.84	0.09	0.82	0.47	0.08	0.01	<0.01	5.0
10	0.02	0.44	0.04	0.90	0.48	<0.008	<0.01	<0.01	5.8
31	0.01	1.1	<0.02	0.54	0.34	0.05	0.02	0.01	4.3
June									
15	<0.01	0.80	<0.02	0.42	0.29	0.03	0.02	<0.01	5.5
20	0.03	1.8	<0.02	0.65	0.48	0.09	0.04	0.02	6.3
29	<0.01	0.88	<0.02	0.32	0.25	0.02	0.02	0.01	3.7
July									
11	<0.01	0.75	<0.02	0.41	0.35	0.04	0.02	0.01	4.9
11	0.02	0.65	0.03	0.79	0.50	0.18	0.01	<0.01	6.3
Aug.									
14	<0.01	0.98	<0.02	0.26	0.23	0.01	0.009	<0.01	--
Sept.									
13	<0.01	0.90	0.02	0.31	0.22	0.02	0.01	<0.01	3.1
26	0.01	0.37	0.05	0.65	0.36	0.14	0.02	0.01	5.2

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00689), USGS National Water Information System parameter code; µg/L, micrograms per liter; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Carbon, organic, particulate (mg/L as C) (00689)	Sediment, suspended (mg/L) (80154)	Acetochlor, water, filtered (µg/L) (49260)	Alachlor, water, filtered (µg/L) (46342)	Atrazine, water, filtered (µg/L) (39632)	Deethyl-atrazine, water, filtered (µg/L) (04040)	Methyl-azinphos, water, filtered (µg/L) (82686)	Benfluralin, water, filtered (µg/L) (82673)	Butylate, water, filtered (µg/L) (04028)
Oct.									
12	0.3	4	<0.002	<0.002	0.013	e0.006	<0.001	<0.002	<0.002
19	0.2	5	<0.002	<0.002	0.013	e0.006	<0.001	<0.002	<0.002
Nov.									
2	0.7	55	--	--	--	--	--	--	--
17	0.3	19	<0.002	<0.002	0.011	e0.005	<0.001	<0.002	<0.002
Dec.									
2	<0.2	13	<0.002	<0.002	0.009	e0.006	<0.001	<0.002	<0.002
8	0.3	2	<0.002	<0.002	0.010	e0.005	<0.001	<0.002	<0.002
Jan.									
4	3.0	242	<0.002	<0.002	0.016	e0.009	<0.001	<0.002	<0.002
Feb.									
10	0.5	18	<0.002	<0.002	0.009	<0.002	<0.001	<0.002	<0.002
13	10	765	<0.002	<0.002	0.013	e0.005	<0.001	<0.002	<0.002
Mar.									
9	0.3	20	--	--	--	--	--	--	--
22	1.3	30	0.023	<0.002	0.031	e0.018	<0.001	<0.002	<0.002
Apr.									
3	1.6	135	<0.002	<0.002	0.021	e0.011	<0.001	0.005	<0.002
25	0.4	20	0.018	<0.002	0.040	e0.015	<0.001	<0.002	<0.002
May									
2	1.3	40	0.258	0.039	0.53	e0.062	<0.001	<0.002	<0.002
10	0.8	--	0.172	0.028	0.64	e0.054	<0.001	<0.002	<0.002
31	0.6	18	0.179	<0.002	1.6	e0.20	<0.001	<0.002	<0.002
June									
15	0.3	11	0.016	<0.002	0.42	e0.13	<0.001	<0.002	<0.002
20	0.9	28	0.090	<0.002	0.99	e0.20	<0.001	<0.002	<0.002
29	0.2	30	<0.002	<0.002	0.15	e0.057	<0.001	<0.002	<0.002
July									
11	0.5	16	<0.010	<0.002	0.090	e0.042	<0.001	<0.002	<0.002
11	4.2	136	0.010	<0.002	0.097	e0.049	<0.001	<0.002	<0.002
Aug.									
14	--	6	<0.002	<0.002	0.021	e0.012	<0.001	<0.002	<0.002
Sept.									
13	0.4	12	<0.002	<0.002	0.017	e0.008	<0.001	<0.002	<0.002
26	2.1	74	<0.002	<0.002	0.013	e0.008	<0.001	<0.002	<0.002

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82680), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value; --, no data]

Date	Carbaryl, water, filtered (µg/L) (82680)	Carbofuran, water, filtered (µg/L) (82674)	Chlorpyrifos, water, filtered (µg/L) (38933)	Cyanazine, water, filtered (µg/L) (04041)	DCPA, water, filtered (µg/L) (82682)	p,p'-DDE, water, filtered (µg/L) (34653)	Diazinon, water, filtered (µg/L) (39572)	Dieldrin, water, filtered (µg/L) (39381)
Oct.								
12	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.043	<0.001
19	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.017	<0.001
Nov.								
2	--	--	--	--	--	--	--	--
17	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001
Dec.								
2	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.008	<0.001
8	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.014	<0.001
Jan.								
4	<0.02	<0.010	<0.004	<0.004	<0.002	<0.006	0.10	<0.001
Feb.								
10	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.032	<0.001
13	<0.003	<0.003	0.011	<0.004	<0.002	<0.006	0.073	<0.001
Mar.								
9	--	--	--	--	--	--	--	--
22	<0.003	<0.003	e0.003	<0.004	<0.002	<0.006	0.016	<0.001
Apr.								
3	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.060	<0.001
25	<0.010	<0.003	<0.004	<0.010	<0.002	<0.006	0.053	<0.001
May								
2	e0.048	<0.003	<0.010	<0.010	<0.002	<0.006	0.064	<0.001
10	e0.15	<0.003	<0.010	<0.004	<0.002	<0.006	0.062	<0.001
31	e0.012	<0.003	0.010	<0.004	<0.002	<0.006	0.063	<0.001
June								
15	e0.043	<0.003	0.012	0.006	<0.002	<0.006	0.048	<0.001
20	e0.006	<0.003	0.012	<0.004	<0.002	<0.006	0.098	<0.001
29	e0.009	<0.003	0.005	<0.004	<0.002	<0.006	0.046	<0.001
July								
11	<0.003	<0.003	0.008	<0.004	<0.002	<0.006	0.11	<0.001
11	e0.007	<0.003	0.008	<0.004	<0.002	<0.006	0.12	<0.001
Aug.								
14	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.025	<0.001
Sept.								
13	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	0.018	<0.001
26	e0.009	<0.003	<0.004	<0.004	<0.002	<0.006	0.10	<0.001

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82660), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	2,6-diethyl--aniline, water, filtered (µg/L) (82660)	Disulfoton, water, filtered (µg/L) (82677)	Methyl-parathion, water, filtered (µg/L) (82667)	EPTC, water, filtered (µg/L) (82668)	Ethalfluralin, water, filtered (µg/L) (82663)	Ethoprop, water, filtered (µg/L) (82672)	Fonofos, water, filtered (µg/L) (04095)	Alpha BHC, water, filtered (µg/L) (34253)
Oct.								
12	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
19	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Nov.								
2	--	--	--	--	--	--	--	--
17	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Dec.								
2	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
8	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Jan.								
4	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Feb.								
10	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
13	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Mar.								
9	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
22	--	--	--	--	--	--	--	--
Apr.								
3	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
25	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
May								
2	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
10	<0.003	<0.017	<0.006	e0.004	<0.004	<0.003	<0.003	<0.002
31	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
June								
15	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
20	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
29	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
July								
11	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
11	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Aug.								
14	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
Sept.								
13	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002
26	<0.003	<0.017	<0.006	<0.002	<0.004	<0.003	<0.003	<0.002

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (39341), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Lindane, water, filtered (µg/L) (39341)	Linuron, water, filtered (µg/L) (82666)	Malathion, water, filtered (µg/L) (39532)	Metolachlor, water, filtered (µg/L) (39415)	Metribuzin, water, filtered (µg/L) (82630)	Molinate, water, filtered (µg/L) (82671)	Napropamide, water, filtered (µg/L) (82684)	Parathion, water, filtered (µg/L) (39542)
Oct.								
12	<0.004	<0.002	<0.005	0.006	<0.004	<0.004	<0.003	<0.004
19	<0.004	<0.002	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004
Nov.								
2	--	--	--	--	--	--	--	--
17	<0.004	<0.002	<0.005	0.004	<0.004	<0.004	<0.003	<0.004
Dec.								
2	<0.004	<0.002	<0.005	e0.004	<0.004	<0.004	<0.003	<0.004
8	<0.004	<0.002	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004
Jan.								
4	<0.004	<0.002	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004
Feb.								
10	<0.004	<0.002	<0.005	0.006	<0.004	<0.004	<0.003	<0.004
13	<0.004	<0.002	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004
Mar.								
9	--	--	--	--	--	--	--	--
22	<0.004	<0.002	<0.005	0.006	<0.004	<0.004	<0.003	<0.004
Apr.								
3	<0.004	<0.002	<0.005	0.009	<0.004	<0.004	<0.003	<0.004
25	<0.004	<0.002	<0.005	0.011	<0.004	<0.004	<0.003	<0.004
May								
2	<0.004	<0.002	<0.005	0.14	<0.004	<0.004	<0.003	<0.004
10	<0.004	<0.002	0.04	0.11	<0.004	<0.004	<0.003	<0.004
31	<0.004	<0.002	<0.005	0.31	<0.004	<0.004	<0.003	<0.004
June								
15	<0.004	<0.002	<0.005	0.037	<0.004	<0.004	<0.003	<0.004
20	<0.004	<0.002	<0.005	0.20	<0.004	<0.004	<0.003	<0.004
29	<0.004	<0.002	<0.005	0.042	<0.004	<0.004	<0.003	<0.004
July								
11	<0.004	<0.002	<0.005	0.026	<0.004	<0.004	<0.003	<0.004
11	<0.004	<0.002	<0.005	0.030	<0.004	<0.004	<0.003	<0.004
Aug.								
14	<0.004	<0.002	<0.005	0.005	<0.004	<0.004	<0.003	<0.004
Sept.								
13	<0.004	<0.002	<0.005	e0.003	<0.004	<0.004	<0.003	<0.004
26	<0.004	<0.002	<0.005	e0.004	<0.004	<0.004	<0.003	<0.004

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82669), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Pebulate, water, filtered (µg/L) (82669)	Pendimethalin, water, filtered (µg/L) (82683)	Permethrin, cis, water, filtered (µg/L) (82687)	Phorate, water, filtered (µg/L) (82664)	Prometon, water, filtered (µg/L) (04037)	Pronamide, water, filtered (µg/L) (82676)	Propachlor, water, filtered (µg/L) (04024)	Propanil, water, filtered (µg/L) (82679)
Oct.								
12	<0.004	<0.004	<0.005	<0.002	0.024	<0.003	<0.007	<0.004
19	<0.004	<0.004	<0.005	<0.002	e0.015	<0.003	<0.007	<0.004
Nov.								
2	--	--	--	--	--	--	--	--
17	<0.004	<0.004	<0.005	<0.002	e0.010	<0.003	<0.007	<0.004
Dec.								
2	<0.004	<0.004	<0.005	<0.002	e0.012	<0.003	<0.007	<0.004
8	<0.004	<0.004	<0.005	<0.002	e0.014	<0.003	<0.007	<0.004
Jan.								
4	<0.004	<0.004	<0.005	<0.002	e0.010	<0.003	<0.007	<0.004
Feb.								
10	<0.004	<0.004	<0.005	<0.002	e0.010	<0.003	<0.007	<0.004
13	<0.004	<0.004	<0.005	<0.002	e0.007	<0.003	<0.007	<0.004
Mar.								
9	--	--	--	--	--	--	--	--
22	<0.004	0.034	<0.005	<0.002	e0.009	<0.003	<0.007	<0.004
Apr.								
3	<0.004	0.078	<0.005	<0.002	0.020	<0.003	<0.007	<0.004
25	<0.004	0.039	<0.005	<0.002	e0.018	<0.003	<0.007	<0.004
May								
2	<0.004	0.051	<0.005	<0.002	0.027	<0.003	<0.007	<0.004
10	<0.004	<0.02	<0.005	<0.002	0.024	<0.003	<0.007	<0.004
31	<0.004	<0.004	<0.005	<0.002	e0.017	<0.003	<0.007	<0.004
June								
15	<0.004	<0.004	<0.005	<0.002	0.059	<0.003	<0.007	<0.004
20	<0.004	<0.01	<0.005	<0.002	0.018	<0.003	<0.007	<0.004
29	<0.004	<0.004	<0.005	<0.002	e0.016	<0.003	<0.007	<0.004
July								
11	<0.004	<0.004	<0.005	<0.002	0.018	<0.003	<0.007	<0.004
11	<0.004	<0.004	<0.005	<0.002	0.025	<0.003	<0.007	<0.004
Aug.								
14	<0.004	<0.004	<0.005	<0.002	0.037	<0.003	<0.007	<0.004
Sept.								
13	<0.004	<0.004	<0.005	<0.002	0.036	<0.003	<0.007	<0.004
26	<0.004	<0.004	<0.005	<0.002	0.038	<0.003	<0.007	<0.004

393944084120700 HOLES CREEK AT HUFFMAN PARK NEAR KETTERING, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82685), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data; e, estimated value]

Date	Propargite, water, filtered (µg/L) (82685)	Simazine, water, filtered (µg/L) (04035)	Tebuthiuron, water, filtered (µg/L) (82670)	Terbacil, water, filtered (µg/L) (82665)	Terbufos, water, filtered (µg/L) (82675)	Thiobencarb, water, filtered (µg/L) (82681)	Triallate, water, filtered (µg/L) (82678)	Trifluralin, water, filtered (µg/L) (82661)
Oct.								
12	<0.013	0.009	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
19	<0.013	0.006	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Nov.								
2	--	--	--	--	--	--	--	--
17	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Dec.								
2	<0.013	<0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
8	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Jan.								
4	<0.013	0.015	<0.01	<0.007	<0.013	<0.002	<0.001	e0.003
Feb.								
10	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
13								
Mar.	<0.013	0.006	<0.01	<0.007	<0.013	<0.002	<0.001	e0.004
9								
22	--	--	--	--	--	--	--	--
Apr.								
3	<0.013	0.025	<0.01	<0.007	<0.013	<0.002	<0.001	0.004
25	<0.013	0.018	<0.01	<0.007	<0.013	<0.002	<0.001	0.006
May								
2	<0.013	0.098	<0.01	<0.007	<0.013	<0.002	<0.001	e0.004
10	<0.013	0.12	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
31	<0.013	0.21	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
June								
15	<0.013	0.094	<0.01	<0.035	<0.013	<0.002	<0.001	<0.002
20	<0.013	0.098	<0.01	<0.007	<0.013	<0.002	<0.001	e0.003
29	<0.013	0.022	<0.01	<0.007	<0.013	<0.002	<0.001	e0.003
July								
11	<0.013	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
11	<0.013	0.022	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Aug.								
14	<0.013	0.008	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Sept.								
13	<0.013	0.005	<0.01	e0.085	<0.013	<0.002	<0.001	<0.002
26	<0.013	<0.005	<0.01	e0.062	<0.013	<0.002	<0.001	<0.002

395355084173600 STILLWATER RIVER AT MARTINDALE ROAD NEAR UNION, OHIO

LOCATION.—Latitude 39°53′55″, longitude 84°17′36″, Montgomery County, Hydrologic Unit 05080001, and at mile 11.4.
DRAINAGE AREA.—645.7 mi^2.
REMARKS.—Discharge is not measured at this site. Discharge is measured by the Miami Conservancy District 2.5 mi downstream at Stillwater River at Englewood, Ohio (03266000) and is published in volume 1, surface-water records. The site at Martindale Road was inaccessible for the collection of the Apr. 8, 2000 sample because of high water. This sample (flagged with an asterisk (*) in the table) was collected at Frederick-Garland Road (395611084180600), a site 3.6 mi upstream from the Martindale Road site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00061), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; --, no data; col/100mL; colonies per 100 milliliters; <, concentration or value reported is less than that indicated]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, whole water field (standard units) (00400)	pH, whole water lab (standard units) (00403)	Water temperature, (deg C) (00010)	Air temperature, (deg C) (00020)	Barometric pressure, (mm of Hg) (00025)	Dissolved oxygen (mg/L) (00300)
Oct.									
20	0930	771	761	7.8	8.0	9.0	4.0	749	9.1
Nov.									
10	1140	756	757	8.3	8.1	11.5	23.0	730	9.7
Dec.									
14	1230	621	620	8.6	7.8	5.5	5.0	724	12.1
Jan.									
4	1210	733	732	8.7	7.8	3.5	-1.0	731	13.0
Feb.									
9	1230	896	928	8.7	8.1	0.5	9.0	736	16.5
Mar.									
9	1030	762	759	8.1	8.3	12.5	22.0	733	10.1
20	1130	717	733	8.1	8.3	8.0	7.0	738	11.8
Apr.									
4	1400	711	728	8.2	8.0	10.5	5.5	736	11.3
*8	1500	306	326	7.4	7.6	9.5	5.0	740	11.5
21	1030	667	684	8.2	8.0	13.0	7.0	733	10.0
May									
2	1140	662	675	8.1	8.2	16.0	18.5	745	10.0
June									
15	1100	672	652	8.1	7.7	23.5	25.0	736	6.6
July									
20	1100	586	584	8.4	8.4	21.0	22.0	--	--
Aug.									
21	1230	706	685	8.2	8.3	21.5	23.0	--	9.4
23	1430	698	694	8.3	8.4	23.5	29.0	747	11.5
Sept.									
12	1500	609	625	7.6	7.4	22.0	26.0	741	--

395355084173600 STILLWATER RIVER AT MARTINDALE ROAD NEAR UNION, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[(00301), USGS National Water Information System parameter code; col/100mL; colonies per 100 milliliters; mg/L, milligrams per liter; <, concentration or value reported is less than that indicated; --, no data; k, value is estimated from a non-ideal colony count; IT, incremental titration; e, estimated value]

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli*, water, whole, total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Oct.									
20	81	50	34	33	4.8	<1	293	243	310
Nov.									
10	93	180	35	30	4.1	<1	306	251	330
Dec.									
14	101	860	24	20	3.3	<1	238	195	250
Jan.									
4	101	2600	31	26	3.8	<1	268	220	330
Feb.									
9	119	580	39	38	3.1	<1	339	278	390
Mar.									
9	99	180	33	21	2.2	<1	275	225	340
20	101	520	28	24	2.3	<1	200	166	290
Apr.									
4	106	460	32	21	2.3	<1	260	216	320
*8	108	5500	10	5.6	4.4	<1	93	77	120
21	99	230	28	14	2.2	30	183	203	310
May									
2	104	160	29	15	1.6	12	218	202	290
June									
15	80	680	28	17	2.8	<1	265	220	290
July									
20	--	90	31	18	2.2	12	200	184	250
Aug.									
21	101	k20	30	18	4.4	10	282	250	300
23	139	180	31	23	4.0	13	267	244	310
Sept.									
12	--	260	27	20	4.2	<1	242	201	270

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)
Oct.									
20	64	58	69	e6	6	0.4	4.6	440	0.03
Nov.									
10	64	53	74	14	7	0.3	1.2	437	0.03
Dec.									
14	56	38	59	13	5	0.2	1.9	353	0.02
Jan.									
4	86	49	79	e10	6	0.3	3.9	455	0.02
Feb.									
9	94	66	93	14	6	0.4	4.4	563	0.02
Mar.									
9	76	48	81	14	4	0.3	0.8	456	0.02
20	60	58	71	16	5	0.3	1.8	423	0.02
Apr.									
4	65	49	77	20	6	0.2	1.2	419	0.03
*8	18	15	31	57	5	0.3	5.7	203	0.07
21	54	36	77	e6	3	0.3	5.4	399	0.03
May									
2	61	40	66	e9	3	0.3	0.7	384	0.02
June									
15	53	38	70	<10	3	0.3	2.8	389	0.02
July									
20	58	38	50	<10	<2	0.3	0.6	336	0.02
Aug.									
21	56	44	71	<10	3	0.3	7.4	411	0.01
23	57	44	71	<10	e2	0.3	6.7	412	<0.01
Sept.									
12	50	36	64	<10	e1	0.3	7.1	380	0.01

395355084173600 STILLWATER RIVER AT MARTINDALE ROAD NEAR UNION, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00631), USGS National Water Information System parameter code; µg/L, micrograms per liter; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate, dissolved (mg/L as P) (00671)	Carbon, organic, dissolved (mg/L as C) (00681)	Carbon, organic, particulate (mg/L as C) (00689)
Oct.									
20	1.7	0.21	0.63	0.45	0.20	0.18	0.18	3.8	0.3
Nov.									
10	1.2	0.09	0.57	0.46	0.14	0.12	0.10	3.7	0.5
Dec.									
14	1.4	0.09	0.54	0.38	0.16	0.12	0.10	3.6	0.7
Jan.									
4	3.3	0.16	0.91	0.42	0.26	0.14	0.12	3.9	2.1
Feb.									
9	2.8	0.51	1.0	0.81	0.22	0.18	0.16	3.0	0.3
Mar.									
9	6.4	0.06	0.66	0.39	0.09	0.06	0.04	3.6	0.7
20	7.8	0.08	0.82	0.54	0.10	0.04	0.03	3.7	1.3
Apr.									
4	6.3	0.06	1.6	0.43	0.07	0.04	0.02	3.5	0.3
*8	7.7	0.17	3.4	1.1	1.0	0.20	0.18	9.6	8.7
21	10.3	<0.02	1.3	0.61	0.14	0.08	0.05	4.2	0.8
May									
2	6.3	0.05	0.58	0.38	0.06	0.03	0.02	3.5	1.1
June									
15	4.5	0.06	0.72	0.40	0.13	0.09	0.07	3.7	0.5
July									
20	1.6	0.03	0.89	0.34	0.08	0.02	<0.01	3.2	1.5
Aug.									
21	1.4	<0.02	0.80	0.41	0.25	0.17	0.14	4.3	0.7
23	1.2	<0.02	0.85	0.39	0.26	0.16	0.13	4.2	1.5
Sept.									
12	1.4	0.03	0.64	0.40	0.31	0.23	0.20	4.1	1.0

Date	Sediment, suspended (mg/L) (80154)	Acetochlor, water, filtered (µg/L) (49260)	Alachlor, water, filtered (µg/L) (46342)	Atrazine, water, filtered (µg/L) (39632)	Deethyl atrazine, water, filtered (µg/L) (04040)	Methyl-azinphos, water, filtered (µg/L) (82686)	Benfluralin, water, filtered (µg/L) (82673)	Butylate, water, filtered (µg/L) (04028)	Carbaryl, water, filtered (µg/L) (82680)
Oct.									
20	8	--	--	--	--	--	--	--	--
Nov.									
10	7	--	--	--	--	--	--	--	--
Dec.									
14	15	--	--	--	--	--	--	--	--
Jan.									
4	70	--	--	--	--	--	--	--	--
Feb.									
9	1	--	--	--	--	--	--	--	--
Mar.									
9	16	<0.002	<0.002	0.068	e0.064	<0.001	<0.002	<0.002	<0.003
20	22	<0.002	<0.002	0.088	e0.086	<0.001	<0.002	<0.002	<0.003
Apr.									
4	13	0.007	<0.002	0.10	e0.057	<0.001	<0.002	<0.002	<0.003
*8	531	0.034	0.010	0.38	e0.097	<0.001	<0.002	<0.002	e0.006
21	35	0.010	0.068	0.18	e0.064	<0.001	<0.002	<0.002	<0.003
May									
2	16	0.077	0.011	0.28	e0.058	<0.001	<0.002	<0.002	<0.003
June									
15	22	0.12	0.009	1.5	e0.20	<0.001	<0.002	<0.002	e0.018
July									
20	8	0.022	<0.002	0.42	e0.14	<0.001	<0.002	<0.002	<0.003
Aug.									
21	30	<0.002	<0.002	0.30	e0.082	<0.001	<0.002	<0.002	<0.003
23	34	<0.002	<0.002	0.23	e0.078	<0.001	<0.002	<0.002	<0.003
Sept.									
12	63	0.014	<0.002	0.17	e0.056	<0.001	<0.002	<0.002	<0.003

395355084173600 STILLWATER RIVER AT MARTINDALE ROAD NEAR UNION, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82674), USGS National Water Information System parameter code; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Carbofuran, water, filtered (µg/L) (82674)	Chlorpyrifos, water, filtered (µg/L) (38933)	Cyanazine, water, filtered (µg/L) (04041)	DCPA, water, filtered (µg/L) (82682)	p,p'-DDE, water, filtered (µg/L) (34653)	Diazinon, water, filtered (µg/L) (39572)	Dieldrin, water, filtered (µg/L) (39381)	2,6-diethyl-aniline, water, filtered (µg/L) (82660)	Methyl-parathion, water, filtered (µg/L) (82667)
Oct.									
20	--	--	--	--	--	--	--	--	--
Nov.									
10	--	--	--	--	--	--	--	--	--
Dec.									
14	--	--	--	--	--	--	--	--	--
Jan.									
4	--	--	--	--	--	--	--	--	--
Feb.									
9	--	--	--	--	--	--	--	--	--
Mar.									
9	<0.003	<0.004	<0.01	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
20	<0.003	<0.004	0.013	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
Apr.									
4	<0.003	<0.004	0.013	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
*8	<0.003	0.005	0.069	<0.002	<0.006	0.013	<0.001	<0.003	<0.006
21	<0.003	<0.004	<0.015	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
May									
2	<0.003	<0.004	<0.01	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
June									
15	<0.003	0.006	0.043	<0.002	<0.006	0.013	<0.001	<0.003	<0.006
July									
20	<0.003	<0.004	0.01	<0.002	<0.006	0.004	<0.001	<0.003	<0.006
Aug.									
21	<0.003	<0.004	0.014	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
23	<0.003	<0.004	0.014	<0.002	<0.006	<0.002	<0.001	<0.003	<0.006
Sept.									
12	<0.003	<0.004	0.026	<0.002	<0.006	e0.003	<0.001	<0.003	<0.006

395355084173600 STILLWATER RIVER AT MARTINDALE ROAD NEAR UNION, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82668), USGS National Water Information System parameter code; --, no data; <, concentration or value reported is less than that indicated]

Date	EPTC, water, filtered (µg/L) (82668)	Ethalfluralin, water, filtered (µg/L) (82663)	Ethoprop, water, filtered (µg/L) (82672)	Fonofos, water, filtered (µg/L) (04095)	Alpha BHC, water, filtered (µg/L) (34253)	Lindane, water, filtered (µg/L) (39341)	Linuron, water, filtered (µg/L) (82666)	Malathion, water, filtered (µg/L) (39532)
Oct.								
20	--	--	--	--	--	--	--	--
Nov.								
10	--	--	--	--	--	--	--	--
Dec.								
14	--	--	--	--	--	--	--	--
Jan.								
4	--	--	--	--	--	--	--	--
Feb.								
9	--	--	--	--	--	--	--	--
Mar.								
9	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
20	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
Apr.								
4	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
*8	0.007	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
21	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
May								
2	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
June								
15	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	
July								<0.005
20	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
Aug.								
21	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
23	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
Sept.								
12	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005

Date	Metolachlor, water, filtered (µg/L) (39415)	Metribuzin, water, filtered (µg/L) (82630)	Molinate, water, filtered (µg/L) (82671)	Napropamide, water, filtered (µg/L) (82684)	Parathion, water, filtered (µg/L) (39542)	Pendimethalin, water, filtered (µg/L) (82683)	Permethrin, cis, water, filtered (µg/L) (82687)
Oct.						--	
20	--	--	--	--	--	--	--
Nov.						--	
10	--	--	--	--	--		--
Dec.						--	
14	--	--	--	--	--	--	--
Jan.						--	
4	--	--	--	--	--	--	--
Feb.						--	
9	--	--	--	--	--	--	--
Mar.							
9	0.032	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005
20	0.044	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005
Apr.							
4	0.047	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005
*8	0.36	0.10	<0.004	<0.003	<0.004	<0.004	<0.005
21	0.34	0.053	<0.004	<0.003	<0.004	<0.01	<0.005
May							
2	0.27	<0.01	<0.004	<0.003	<0.004	<0.004	<0.005
June							
15							<0.005
July	0.30	0.008	<0.004	<0.003	<0.004	<0.004	
20	0.14	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005
Aug.							
21	0.12	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005
23	0.084	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005
Sept.							
12	0.13	<0.004	<0.004	<0.003	<0.004	<0.004	<0.005

395355084173600 STILLWATER RIVER AT MARTINDALE ROAD NEAR UNION, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[µg/L, micrograms per liter; (82664), USGS National Water Information System parameter code; --, no data; <, concentration or value reported is less than that indicated; e, estimated value]

Date	Phorate, water, filtered (µg/L) (82664)	Prometon, water, filtered (µg/L) (04037)	Pronamide, water, filtered (µg/L) (82676)	Propachlor, water, filtered (µg/L) (04024)	Propanil, water, filtered (µg/L) (82679)	Propargite, water, filtered (µg/L) (82685)	Simazine, water, filtered (µg/L) (04035)
Oct.							
20	--	--	--	--	--	--	--
Nov.							
10	--	--	--	--	--	--	--
Dec.							
14	--	--	--	--	--	--	--
Jan.							
4	--	--	--	--	--	--	--
Feb.							
9	--	--	--	--	--	--	--
Mar.							
9	<0.002	e0.006	<0.003	<0.007	<0.004	<0.013	0.011
20	<0.002	e0.009	<0.003	<0.007	<0.004	<0.013	0.024
Apr.							
4	<0.002	e0.012	<0.003	<0.007	<0.004	<0.013	0.033
*8	<0.002	0.029	<0.003	<0.007	<0.004	<0.013	0.26
21	<0.002	0.023	<0.003	<0.007	<0.004	<0.013	0.23
May							
2	<0.002	e0.014	<0.003	<0.007	<0.004	<0.013	0.34
June							
15	<0.002	0.037	<0.003	<0.007	<0.004	<0.013	0.11
July							
20	<0.002	e0.018	<0.003	<0.007	<0.004	<0.013	0.027
Aug.							
21	<0.002	0.036	<0.003	<0.007	<0.004	<0.013	0.018
23	<0.002	0.037	<0.003	<0.007	<0.004	<0.013	0.016
Sept.							
12	<0.002	0.055	<0.003	<0.007	<0.004	<0.013	0.015

Date	Tebuthiuron, water, filtered (µg/L) (82670)	Terbacil, water, filtered (µg/L) (82665)	Terbufos, water, filtered (µg/L) (82675)	Thiobencarb, water, filtered (µg/L) (82681)	Triallate, water, filtered (µg/L) (82678)	Trifluralin, water, filtered (µg/L) (82661)
Oct.						
20	--	--	--	--	--	--
Nov.						
10	--	--	--	--	--	--
Dec.						
14	--	--	--	--	--	--
Jan.						
4	--	--	--	--	--	--
Feb.						
9	--	--	--	--	--	--
Mar.						
9	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
20	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Apr.						
4	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
*8	e0.025	<0.007	<0.013	<0.002	<0.001	<0.002
21	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
May						
2	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
June						
15	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
July						
20	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Aug.						
21	e0.007	<0.007	<0.013	<0.002	<0.001	<0.002
23	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Sept.						
12	0.013	<0.007	<0.013	<0.002	<0.001	<0.002

395457084095100 GREAT MIAMI RIVER AT ROSS ROAD NEAR VANDALIA, OHIO

LOCATION.—Latitude 39°54′57″, longitude 84°09′51″, Montgomery and Miami Counties, Hydrologic Unit 05080001, and at mile 95.7.
DRAINAGE AREA.—1142 mi^2.
REMARKS.—Discharge is not measured at this site. Discharge is measured by the Miami Conservancy District 4.8 miles downstream at Great Miami River at Taylorsville, Ohio (03263000).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[µS/cm, microsiemens per centimeter; (00061), USGS National Water Information System parameter code; deg C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; --, no data; col/100mL; colonies per 100 milliliters; IT, incremental titration; <, concentration or value reported is less than that indicated]

Date	Time	Specific conductance, field (µS/cm) (00095)	Specific conductance, lab (µS/cm) (90095)	pH, whole water field (standard units) (00400)	pH, whole water lab (standard units) (00403)	Air temperature, (deg C) (00020)	Water temperature, (deg C) (00010)	Barometric pressure, (mm of Hg) (00025)	Oxygen, dissolved (mg/L) (00300)
Oct. 20	1130	830	843	8.0	8.1	12.0	10.5	749	10.5
Nov. 17	1215	826	846	8.2	7.9	4.0	6.0	746	12.9
Dec. 8	1300	817	830	8.3	8.3	10.0	5.0	750	12.4
Jan. 4	1400	535	570	7.8	8.0	0.0	6.5	738	9.2
Feb. 7	1400	878	927	8.2	8.1	4.0	1.0	747	13.0
Mar. 20	1230	704	726	8.3	8.3	13.0	7.5	740	12.0
Apr. 4	1645	671	724	8.1	8.1	5.0	10.5	739	11.5
May 4	0950	594	610	7.9	7.9	24.0	17.0	745	8.4
June 14	1440	727	718	8.7	8.4	32.0	25.0	737	10.8
July 20	1140	745	753	8.3	8.2	23.0	--	--	--
Aug. 14	1150	623	626	8.2	8.3	--	22.0	747	9.4
Sept. 12	1130	773	784	7.5	7.8	25.0	22.0	742	--

Date	Oxygen, dissolved (percent of saturation) (00301)	*E. coli*, water whole total (col/100 mL) (31633)	Magnesium, dissolved (mg/L as Mg) (00925)	Sodium, dissolved (mg/L as Na) (00930)	Potassium, dissolved (mg/L as K) (00935)	Carbonate, water, dissolved, IT, field (mg/L as CO_3) (00452)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Hardness, total (mg/L as $CaCO_3$) (00900)
Oct. 20	95	30	31	47	5.4	<1	295	245	320
Nov. 17	105	70	32	44	5.1	<1	309	253	330
Dec. 8	98	200	31	44	4.8	11	287	253	330
Jan. 4	78	--	21	22	3.9	<1	187	154	230
Feb. 7	100	45	32	48	4.1	<1	286	237	350
Mar. 20	104	230	27	27	2.6	24	154	168	290
Apr. 4	106	370	29	24	2.8	<1	256	213	310
May 4	89	580	24	14	3.0	<1	200	166	270
June 14	130	160	31	24	2.8	10	264	235	330
July 20	--	160	31	30	3.8	<1	290	241	320
Aug. 14	110	240	25	18	4.1	7	254	223	300
Sept. 12	--	380	31	37	4.6	<1	277	230	320

395457084095100 GREAT MIAMI RIVER AT ROSS ROAD NEAR VANDALIA, OHIO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000—Continued

[mg/L, milligrams per liter; (00945), USGS National Water Information System parameter code; µg/L, micrograms per liter; deg C, degrees Celsius; <, concentration or value reported is less than that indicated; >, concentration or value reported is greater than that indicated; --, no data; e, estimated value]

Date	Sulfate, dissolved (mg/L as SO_4) (00945)	Chloride, dissolved (mg/L as Cl) (00940)	Calcium, dissolved (mg/L as Ca) (00915)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Fluoride, dissolved (mg/L as F) (00950)	Silica, dissolved (mg/L as SiO_2) (00955)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)
Oct.										
20	80	70	76	13	5	0.8	4.1	504	0.02	1.3
Nov.										
17	83	64	79	19	4	0.8	0.9	495	0.04	3.5
Dec.										
8	84	67	82	14	4	0.7	1.0	498	0.04	1.5
Jan.										
4	55	43	57	26	6	0.3	4.4	338	0.06	4.1
Feb.										
7	89	84	88	20	14	0.6	4.3	548	0.05	2.6
Mar.										
20	63	58	72	20	7	0.3	2.0	421	0.03	5.4
Apr.										
4	67	49	77	14	7	0.3	2.1	419	0.04	5.0
May										
4	51	34	68	14	2	0.3	5.0	362	0.06	9.2
June										
14	66	45	80	<10	<2	0.4	4.4	440	0.02	4.3
July										
20	70	53	78	<10	<2	0.6	4.8	452	0.02	1.8
Aug.										
14	44	35	77	e8	3	0.4	9.0	384	0.01	2.7
Sept.										
12	65	58	77	<10	e2	0.6	6.6	453	0.02	2.1

Date	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, ammonia plus organic total (mg/L as N) (00625)	Nitrogen, ammonia plus organic dissolved (mg/L as N) (00623)	Phosphorus, total (mg/L as P) (00665)	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate dissolved (mg/L as P) (00671)	Carbon, organic dissolved (mg/L as C) (00681)	Carbon, organic particulate (mg/L as C) (00689)	Sediment, suspended (mg/L) (80154)
Oct.									
20	0.06	0.5	0.4	0.34	0.30	0.33	4.0	0.6	6
Nov.									
17	<0.02	0.2	0.2	0.10	0.098	0.074	3.8	0.3	2
Dec.									
8	<0.02	0.9	0.4	0.52	0.47	0.41	3.9	1.2	4
Jan.									
4	0.11	1.7	0.6	0.52	0.16	0.14	6.9	>10	212
Feb.									
7	0.04	0.4	0.3	0.37	0.32	0.29	3.4	0.2	2
Mar.									
20	<0.02	0.7	0.4	0.12	0.05	0.036	4.5	1.5	17
Apr.									
4	<0.02	0.8	0.4	0.13	0.08	0.060	4.1	0.6	16
May									
4	0.09	1.6	0.9	0.21	0.11	0.083	6.9	2.2	36
June									
14	<0.02	0.9	0.4	0.19	0.15	0.12	4.2	1.0	22
July									
20	<0.02	0.6	0.4	0.30	0.26	0.22	3.4	1.0	21
Aug.									
14	<0.02	1.1	0.6	0.32	0.20	0.18	--	--	27
Sept.									
12	0.02	0.6	0.4	0.46	0.41	0.36	3.7	0.7	29

03275000 WHITEWATER RIVER NEAR ALPINE, INDIANA--Continued

National Water-Quality Assessment Program, Great Miami and Little Miami River Basins Study Unit

WATER-QUALITY RECORDS

The data described in the following table were collected and analyzed as part of the NAWQA (National Water-Quality Assessment Program) project in the Great Miami and Little Miami River Basins. The objectives of the NAWQA program are to broadly characterize the water quality of the Nation's streams and aquifers in relation to human and natural factors. The period of high-intensity data collection for the Great Miami and Little Miami River Basins project is in water years 1999-2001.

There are eight additional stream sites in Ohio which data are being reported in the 2000 Ohio annual data report as part of the NAWQA study: Stillwater River at Martindale Rd. near Union, OH (395355084173600), Great Miami River near Vandalia, OH (395457084095100), Mad River at St. Paris Pike near Eagle City, OH (03267900), Holes Creek at Huffman Park near Kettering, OH (393944084120700), Great Miami River at Hamilton, OH (03274000), Little Miami River at Milford, OH (03245500), Great Miami River at Venice, OH (03274500) and East Fork Little Miami River near Williamsburg,OH (03246400). One site is reported in this annual data report: Whitewater River near Alpine, IN (03275000).

These data also can be obtained electronically at: http://oh.water.usgs.gov/miam.html.

--, no data; <, concentration or value reported is less than that indicated; E, estimated value; K, value is estimated for a non-ideal colony count.

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (mm OF Hg) (00025)	OXY-GEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXY-GEN, DIS-SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAN-DARD UNITS) (00400)	PH WATER WHOLE LAB (STAN-DARD UNITS (00403)	SPE-CIFIC CONDUC-TANCE, LAB (90095)	SPE-CIFIC CONDUC-TANCE, FIELD (00095)	TEMPER-ATURE, AIR (DEG C) (00020)	TEMPER-ATURE, WATER (DEG C) (00010)	HARD-NESS, TOTAL (mg/L AS $CaCO_3$) (00900)	CALCIUM, DIS-SOLVED (mg/L AS Ca) (00915)
OCT 1999													
19...	1530	66	746	136	14.3	8.2	8.0	717	697	13	12.0	310	76
NOV													
09...	1210	68	738	121	12.5	8.3	8.1	740	737	23	12.5	310	76
DEC													
15...	1130	153	725	101	11.9	8.4	8.2	585	615	6	6.0	290	72
JAN 2000													
05...	1150	239	748	103	13.0	8.4	8.0	617	605	-3	4.5	270	67
FEB													
10...	1220	77	725	123	14.7	8.4	8.1	725	708	10	5.5	300	73
MAR													
15...	1200	201	736	137	14.9	8.5	8.3	628	651	20	10.0	310	73
20...	1140	764	732	104	11.8	8.3	8.1	603	535	10	8.0	270	65
APR													
11...	1200	1460	737	101	11.2	8.2	8.1	589	574	10	9.0	260	66
MAY													
10...	1230	324	726	139	12.1	8.3	8.3	639	630	19	19.5	300	72
JUN													
01...	1340	347	743	112	9.6	8.1	8.2	651	627	34	22.5	300	73
15...	1320	769	718	96	7.7	8.1	7.8	524	531	27	23.0	240	60
JUL													
13...	1250	287	733	121	10.0	8.2	8.1	634	644	30	22.5	290	72
AUG													
17...	1250	142	740	96	8.3	8.1	8.2	653	675	20	21.0	290	70
SEP													
13...	1230	155	731	106	9.4	8.1	8.1	644	648	23	19.0	300	72

03275000 WHITEWATER RIVER NEAR ALPINE, INDIANA--Continued

National Water-Quality Assessment Program, Great Miami and Little Miami River Basins Study Unit

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MAGNESIUM, DISSOLVED (mg/L AS Mg) (00925)	POTASSIUM, DISSOLVED (mg/L AS K) (00935)	SODIUM, DISSOLVED (mg/L AS Na) (00930)	ALKALINITY, WATER, DISSOLVED FIELD (mg/L AS $CaCO_3$) (39086)	BICARBONATE, WATER, DISSOLVED FIELD (mg/L AS HCO_3) (00453)	CARBONATE WATER DISSOLVED FIELD (mg/L AS CO_3) (00452)	CHLORIDE, DISSOLVED (mg/L AS Cl) (00940)	FLUORIDE, DISSOLVED (mg/L AS F) (00950)	SILICA, DISSOLVED (mg/L AS SiO_2) (00955)	SULFATE DISSOLVED (mg/L AS SO_4) (00945)	NITROGEN, AMMONIA + ORGANIC, DISSOLVED (mg/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC, TOTAL (mg/L AS N) (00625)
OCT 1999												
19...	30	2.9	26	261	315	<1	48	0.3	4.8	41	0.21	0.30
NOV												
09...	29	2.7	28	264	322	<1	49	.3	3.8	42	.24	.42
DEC												
15...	26	1.8	12	255	311	<1	25	.2	5.2	38	.12	.22
JAN 2000												
05...	24	2.5	12	233	284	<1	27	.2	5.7	43	.24	.43
FEB												
10...	29	2.5	25	256	312	<1	43	.3	3.5	48	.27	.36
MAR												
15...	30	1.9	15	234	286	<1	33	.2	1.8	48	.16	.19
20...	25	2.1	9.9	202	246	<1	28	.2	3.3	44	.25	.94
APR												
11...	24	2.0	8.0	203	248	<1	22	.2	6.9	37	.39	.50
MAY												
10...	29	1.9	12	240	293	<1	28	.2	2.7	41	.15	.28
JUN												
01...	27	2.0	11	242	246	<1	30	.2	4.6	37	.15	.31
15...	23	3.2	7.8	200	244	<1	20	.2	6.1	31	.39	.79
JUL												
13...	28	2.0	9.6	250	305	<1	23	.2	5.4	37	.14	.19
AUG												
17...	28	2.6	15	230	281	<1	30	.3	5.2	38	.12	.23
SEP												
13...	28	2.2	14	260	317	<1	29	.2	6.6	37	.16	.26

DATE	NITROGEN, AMMONIA DISSOLVED (mg/L AS N) (00608)	NITROGEN, NO2 + NO3, DISSOLVED (mg/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (mg/L AS N) (00613)	PHOSPHORUS DISSOLVED (mg/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L AS P) (00671)	PHOSPHORUS TOTAL (mg/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (mg/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (mg/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	E. COLI WATER WHOLE TOTAL (COLONIES/ 100 mL) (31633)	IRON, DISSOLVED (µg/L AS Fe) (01046)	MANGANESE, DISSOLVED (µg/L AS Mn) (01056)	SEDIMENT, SUSPENDED (mg/L) (80154)
OCT 1999													
19...	0.06	2.4	0.05	0.06	0.05	0.09	2.0	0.3	393	80	10	8	12
NOV													
09...	.07	2.3	.09	.04	.03	.05	2.0	.3	422	5600	20	9	13
DEC													
15...	< .02	2.2	< .01	.02	.02	.04	1.4	.7	362	1900	E10	6	13
JAN 2000													
05...	.09	2.5	.02	.03	.02	.06	2.5	.6	367	4600	E10	7	13
FEB													
10...	.13	2.6	.03	.04	.03	.06	1.5	.4	415	1600	10	15	3
MAR													
15...	< .02	3.7	.04	.01	< .01	.02	1.9	.4	377	8	20	8	20
20...	< .02	4.4	.02	.02	.01	.16	4.2	1.5	350	6400	20	5	--
APR													
11...	.03	7.3	.01	.06	.04	.12	3.3	.8	339	210	E10	8	46
MAY													
10...	< .02	3.4	.02	.01	< .01	.01	1.9	.4	357	K35	20	9	23
JUN													
01...	< .02	5.2	.02	.02	.02	.03	2.1	.3	368	K5	<10	8	28
15...	.07	4.1	.04	.05	.04	.16	4.4	.8	315	12000	E10	5	94
JUL													
13...	< .02	3.9	< .01	.03	.03	.04	2.0	.3	370	25	<10	4	27
AUG													
17...	< .02	2.8	.02	.02	.02	.04	1.7	.4	386	52	<10	6	14
SEP													
13...	< .02	2.7	.01	.03	.02	.04	1.7	.4	372	190	<10	8	--