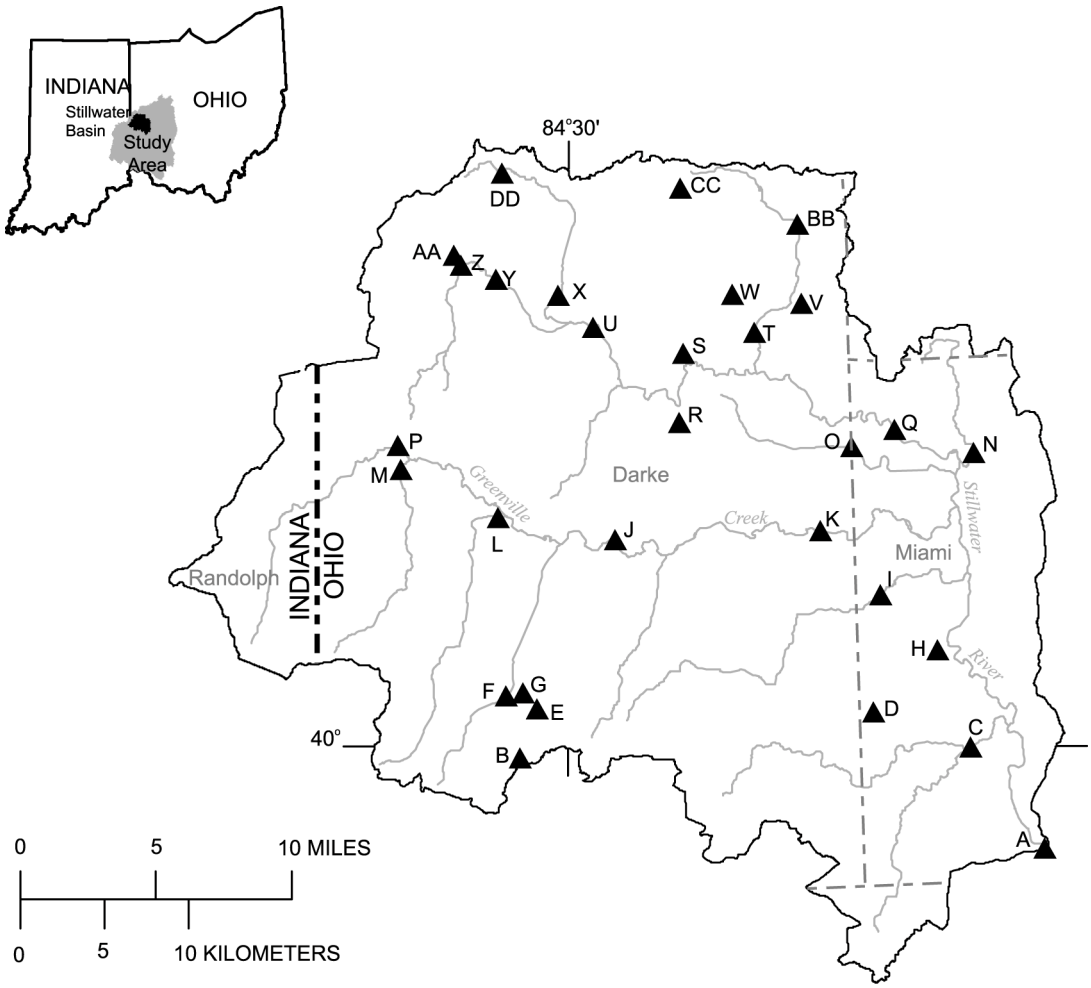
PROJECT DATA

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

RESULTS FROM THE STILLWATER RIVER BASIN SYNOPTIC

The Great and Little Miami River Basins NAWQA (MIAM) study conducted a synoptic study to investigate the water quality of streams in the Stillwater River Basin, Darke and Miami Counties, Ohio. Land use in the Stillwater River Basin is largely agricultural and includes extensive row-crop production of corn, soybeans, and winter wheat, as well as extensive production of poultry, swine, and to a lesser extent, dairy cattle. Because most poultry and swine production is associated with animal feedlot operations (AFOs), the Stillwater River Basin has the highest density of AFOs in the MIAM study unit. The water samples were collected at 30 sites during a single high-flow event that occurred in May 2000. Stream samples were collected from one depth-integrated vertical taken at the stream's centroid of flow with a 3-liter teflon bottle. At most sites, stream discharge measurements were taken immediately after sample collection. A churn splitter was used to composite and split the inorganic samples. Samples were collected for analysis of selected physical parameters, major ions, nutrients, and selected pesticides. Specific details describing the guidelines used for sample collection and processing can be found in Wilde and others (1999).

Streambed-sediment samples were collected during low-flow conditions in the Stillwater River Basin at 28 sites in August and September, 2000. Bed-sediment samples were collected from the top 1 to 2 centimeters of material taken from at least 5 depositional areas within the stream reach. The composite samples were wet-sieved using a 2.0-millimeter stainless steel mesh (WS <2 mm) and submitted to the laboratory for carbon content analyses. Details concerning procedures used to collect and process streambed sediment samples are given in Shelton and Capel (1994). Bed-sediment constituent concentrations are provided on a dry-weight (DW) basis.



PROJECT DATA

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

RESULTS FROM THE STILLWATER RIVER BASIN SYNOPTIC—CONTINUED

Map index	Station number	Station name	Latitude	Longitude	Drainage area (mi^2)
A	395611084180600	Stillwater River at Frederick–Garland Road	39°56′11″	84°18′06″	609
B	395922084400400	Prairie Outlet at Hollandsburg–Arcanum Road	39°59′22″	84°40′04″	1.5
C	395929084210500	Ludlow Creek at Davis Road	39°59′29″	84°21′05″	62.5
D	400039084250900	Hog Run at Jones Road	40°00′39″	84°25′09″	5.8
E	400056084391900	Prairie Outlet at State Route 121	40°00′56″	84 39′19″	4.9
F	400119084403700	Lake Branch Ditch at Weaver–Fort Jefferson Road	40°01′19″	84°40′37″	6.3
G	400126084395300	Mud Creek at Weaver–Fort Jefferson Road	40°01′26″	84°39′53″	3.8
H	400236084222400	Canyon Run at Rangeline Road	40°02′36″	84°22′24″	6.0
I	400422084244400	Painter Creek at Sugar Grove Road	40°04′22″	84°24′44″	32.0
J	400616084355700	Greenville Creek at Jaysville Road	40°06′16″	84°35′57″	142
K	400627084271400	Greenville Creek at Smith Road	40°06′27″	84°27′14″	191
L	400701084405100	West Branch Greenville Creek at Heller Road	40°07′01″	84°40′51″	25.9
M	400834084445500	Kraut Creek at Bickel Road	40°08′34″	84°44′55″	22.1
N	400850084204500	Trotters Creek at Piqua–Clayton Road	40°08′50″	84°20′45″	14.5
O	400906084255300	Harris Creek at State Route 721	40°09′06″	84°25′53″	9.0
P	400919084450300	Greenville Creek at Palestine–Union City Road	40°09′19″	84°45′03″	26.4
Q	400937084240400	Stillwater River at State Route 185	40°09′37″	84°24′04″	191
R	400958084330900	Unnamed Tributary at State Route 121	40°09′58″	84°33′09″	6.2
S	401208084325700	Unnamed Tributary at State Route 242	40°12′08″	84°32′57″	1.0
T	401247084295500	Swamp Creek downstream of State Route 121	40°12′47″	84°29′55″	58.8
U	401301084364300	Stillwater River at Reisner Road	40°13′01″	84°36′43″	74.3
V	401340084275400	Unnamed Tributary of Swamp Creek at State Route 47	40°13′40″	84°27′54″	9.1
W	401401084304800	Indian Creek at Conover Road	40°14′01″	84°30′48″	17.7
X	401404084381200	North Fork at State Route 118	40°14′04″	84°38′12″	17.3
Y	401436084404800	Stillwater River at Zumbrum Road	40°14′36″	84°40′48″	29.9
Z	401502084421500	South Fork at Washington Road	40°15′02″	84°42′15″	13.8
AA	401522084423400	West Fork Stillwater at Coletown–Lightsville Road	40°15′22″	84°42′34″	13.2
BB	401612084280200	Swamp Creek at Pitensbarger Road	40°16′12″	84°28′02″	22.5
CC	401723084325900	Swamp Creek at Greenville–St. Mary's Road	40°17′23″	84°32′59″	6.7
DD	401757084403000	North Fork at Riegle Road	40°17′57″	84°40′30″	2.2

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

[ft/s^3, cubic feet per second; (00061), USGS National Water Information System parameter code; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; --, no data]

Station number	Date	Time	Discharge, instantaneous (ft/s^3) (00061)	Barometric pressure (mm of Hg) (00025)	Oxygen, dissolved (percent of saturation) (00301)	Oxygen, dissolved (mg/L) (00300)	pH, whole water, field, (standard units) (00400)
395611084180600	05/20/00	1600	--	743	98	9.6	8.0
395922084400400	05/19/00	0950	--	--	69	7.0	7.5
395929084210500	05/20/00	1430	--	738	93	9.3	7.8
400039084250900	05/19/00	1300	70	--	95	8.5	7.4
400056084391900	05/19/00	1025	16	730	65	6.3	7.2
400119084403700	05/19/00	1640	6.8	732	79	7.4	7.4
400126084395300	05/19/00	1330	5.8	731	93	8.4	7.8
400236084222400	05/19/00	1500	60	--	143	13.8	7.5
400422084244400	05/20/00	1400	140	737	97	10.0	7.5
400616084355700	05/20/00	1100	578	728	--	--	7.7
400627084271400	05/20/00	1400	809	--	--	--	7.8
400701084405100	05/20/00	1220	34	738	93	9.3	7.8
400834084445500	05/20/00	1200	67	735	92	9.5	7.5
400850084204500	05/19/00	1650	62	--	100	9.2	7.5
400906084255300	05/20/00	1300	9.9	--	99	10.1	7.6
400919084450300	05/20/00	1330	86	735	98	10.0	7.8
400937084240400	05/20/00	1030	323	--	95	9.3	7.6
400958084330900	05/20/00	0800	13	740	98	9.7	7.5
401208084325700	05/20/00	1000	0.46	736	100	10.3	7.3
401247084295500	05/19/00	1730	191	722	--	--	7.4
401301084364300	05/19/00	1910	66	--	103	10.3	7.6
401340084275400	05/19/00	1630	32	--	90	8.4	7.6
401401084304800	05/19/00	1520	64	722	--	--	7.4
401404084381200	05/20/00	0900	--	738	80	8.1	7.6
401436084404800	05/20/00	0810	43	729	--	--	7.8
401502084421500	05/19/00	1230	--	735	87	8.4	7.5
401522084423400	05/19/00	1000	21	--	86	8.4	7.4
401612084280200	05/20/00	0830	24	--	82	8.1	7.7
401723084325900	05/19/00	1100	22	718	--	--	7.3
401757084403000	05/19/00	1415	24	--	103	10.3	7.5

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

[(00403), USGS National Water Information System parameter code; µS/cm, microsiemens per centimeter; deg C, degrees Celsius; mg/L, milligrams per liter; --, no data]

Station number	pH, water, lab (standard units) (00403)	Specific conductance, lab (µS/cm) (90095)	Specific conductance, field (µS/cm) (00095)	Water temperature (deg C) (00010)	Hardness, total (mg/L as $CaCO_3$) (00900)	Calcium, dissolved (mg/L as Ca) (00915)	Magnesium, dissolved (mg/L as Mg) (00925)
395611084180600	7.5	494	491	15.5	210	54	18
395922084400400	7.3	648	630	14.6	290	74	26
395929084210500	7.5	633	628	13.5	290	73	26
400039084250900	7.3	454	439	16.5	200	52	18
400056084391900	7.2	508	489	14.7	200	52	18
400119084403700	7.3	636	614	16.6	300	86	21
400126084395300	7.4	602	592	18.2	270	67	26
400236084222400	7.4	488	479	17.8	200	52	18
400422084244400	7.6	612	602	13.9	280	71	25
400616084355700	7.3	580	571	11.0	260	68	22
400627084271400	7.4	531	527	--	240	64	20
400701084405100	7.4	632	628	13.5	300	80	25
400834084445500	7.4	549	540	13.5	260	67	23
400850084204500	7.4	434	427	17.5	180	47	15
400906084255300	7.8	680	671	13.0	320	82	27
400919084450300	7.3	579	567	13.4	270	70	24
400937084240400	7.6	647	640	14.9	280	72	24
400958084330900	7.6	652	646	13.0	300	76	27
401208084325700	7.7	904	900	13.7	400	104	35
401247084295500	7.3	646	644	17.0	250	66	22
401301084364300	7.2	657	650	16.0	290	74	25
401340084275400	7.3	708	703	17.1	300	82	24
401401084304800	7.4	658	656	--	280	71	25
401404084381200	7.5	782	774	13.2	340	87	30
401436084404800	7.8	739	737	--	340	87	30
401502084421500	7.4	644	640	15.9	280	70	24
401522084423400	7.2	614	621	14.5	250	64	23
401612084280200	7.4	675	677	13.9	290	75	25
401723084325900	7.4	586	586	18.0	240	61	21
401757084403000	7.3	745	750	15.3	310	79	27

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

[mg/L, milligrams per liter; (00935), USGS National Water Information System parameter code; IT, incremental titration]

Station number	Potassium, dissolved (mg/L as K) (00935)	Sodium, dissolved (mg/L as Na) (00930)	Alkalinity, water, dissolved, IT, field (mg/L as $CaCO_3$) (39086)	Bicarbonate, water, dissolved, IT, field (mg/L as HCO_3) (00453)	Carbonate water, dissolved, IT, field (mg/L as Co_3) (00452)	Chloride, dissolved (mg/L as Cl) (00940)	Fluoride, dissolved (mg/L as F) (00950)
395611084180600	4.0	7.0	123	150	<1	22	0.2
395922084400400	4.3	5.7	132	162	<1	18	0.2
395929084210500	1.3	8.0	160	196	<1	32	0.2
400039084250900	2.6	4.0	95	117	<1	19	0.2
400056084391900	6.0	5.6	99	122	<1	22	0.2
400119084403700	2.9	3.3	165	201	<1	10	0.2
400126084395300	2.7	10	169	206	<1	27	0.2
400236084222400	4.2	5.0	87	106	<1	20	0.2
400422084244400	1.4	7.0	149	181	<1	29	0.2
400616084355700	3.3	6.9	157	191	<1	22	0.2
400627084271400	3.6	6.2	139	169	<1	20	0.2
400701084405100	2.7	5.1	184	225	<1	16	0.2
400834084445500	2.8	4.5	165	201	<1	18	0.2
400850084204500	6.7	6.0	97	119	<1	24	0.2
400906084255300	1.9	8.3	197	241	<1	28	0.2
400919084450300	2.3	4.7	155	189	<1	25	0.2
400937084240400	4.6	9.4	137	168	<1	29	0.2
400958084330900	1.5	9.4	170	208	<1	29	0.2
401208084325700	4.3	21	220	268	<1	52	0.2
401247084295500	6.4	8.9	106	130	<1	27	0.2
401301084364300	4.2	7.6	136	166	<1	29	0.2
401340084275400	6.6	8.3	112	92	<1	25	0.2
401401084304800	6.4	9.5	109	133	<1	27	0.2
401404084381200	4.2	11	145	176	<1	32	0.2
401436084404800	1.9	7.3	182	223	<1	32	0.3
401502084421500	3.5	8.9	142	173	<1	33	0.2
401522084423400	6.3	5.6	124	151	<1	26	0.3
401612084280200	5.2	9.2	133	162	<1	31	0.2
401723084325900	6.2	6.5	111	91	<1	30	0.2
401757084403000	5.3	9.8	109	133	<1	29	0.2

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

[mg/L, milligrams per liter; (00955), USGS National Water Information System parameter code]

Station number	Silica, dissolved (mg/L as SiO_2) (00955)	Sulfate, dissolved (mg/L as SO_4) (00945)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)
395611084180600	7.3	28	1.3	2.3	0.24	16	0.11
395922084400400	9.1	44	1.9	2.3	0.76	30	0.11
395929084210500	7.5	25	0.48	0.8	0.06	22	0.05
400039084250900	8.1	15	1.0	2.1	0.09	22	0.09
400056084391900	7.2	23	1.8	2.6	0.59	22	0.10
400119084403700	8.3	87	1.5	3.6	0.24	16	0.06
400126084395300	5.2	78	0.98	1.1	0.19	5.7	0.06
400236084222400	7.9	34	1.6	2.2	0.34	24	0.12
400422084244400	7.7	25	0.69	1.0	0.09	23	0.08
400616084355700	7.9	50	1.2	1.8	0.21	13	0.12
400627084271400	8.0	40	1.2	1.8	0.20	14	0.11
400701084405100	8.1	69	0.97	1.4	0.13	13	0.07
400834084445500	8.4	40	1.2	1.5	0.13	13	0.09
400850084204500	7.9	21	2.5	2.9	0.67	14	0.12
400906084255300	8.9	53	0.74	1.0	0.15	15	0.08
400919084450300	8.3	40	0.99	1.4	0.13	15	0.07
400937084240400	8.6	42	1.7	2.3	0.33	25	0.14
400958084330900	8.9	36	0.80	1.1	0.10	20	0.08
401208084325700	9.8	97	1.2	1.3	0.16	21	0.13
401247084295500	8.3	37	2.1	2.9	0.42	32	0.20
401301084364300	8.5	44	1.6	2.5	0.43	25	0.14
401340084275400	9.6	32	2.2	2.5	0.42	45	0.19
401401084304800	9.1	36	2.4	3.2	0.52	35	0.17
401404084381200	9.2	76	1.6	1.8	0.26	32	0.18
401436084404800	8.3	51	0.85	1.0	0.17	26	0.13
401502084421500	7.1	42	1.7	2.3	0.54	21	0.16
401522084423400	8.3	30	2.1	2.9	0.47	27	0.10
401612084280200	8.8	50	1.8	2.0	0.32	27	0.16
401723084325900	9.6	32	2.3	3.3	0.65	29	0.11
401757084403000	9.6	52	1.9	2.2	0.36	41	0.16

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

[mg/L, milligrams per liter; (00666), USGS National Water Information System parameter code; deg C, degrees Celsius; µg/L, microgram per liter; e, estimated value; --, no data]

Station number	Phosphorus, dissolved (mg/L as P) (00666)	Phosphorus, ortho-phosphate, dissolved (mg/L as P) (00671)	Phosphorus, total (mg/L as P) (00665)	Dissolved solids, residue at 180 deg C (mg/L) (70300)	Iron, dissolved (µg/L as Fe) (01046)	Manganese, dissolved (µg/L as Mn) (01056)	Sediment, suspended (mg/L) (80154)
395611084180600	0.17	0.15	0.51	314	e10	e2	218
395922084400400	0.12	0.10	0.27	445	e10	17	101
395929084210500	0.04	0.04	0.07	377	<10	3	26
400039084250900	0.17	0.16	0.55	323	<10	11	226
400056084391900	0.27	0.24	0.55	333	80	19	134
400119084403700	0.09	0.09	0.29	427	10	41	98
400126084395300	0.03	0.02	0.09	368	e10	34	50
400236084222400	0.21	0.20	0.53	326	e10	13	193
400422084244400	0.07	0.06	0.11	397	<10	6	30
400616084355700	0.12	0.12	0.32	359	10	11	104
400627084271400	0.15	0.14	0.36	346	10	6	117
400701084405100	0.06	0.06	0.18	394	e10	22	92
400834084445500	0.12	0.11	0.26	363	20	18	75
400850084204500	0.46	0.42	0.70	294	30	16	128
400906084255300	0.04	0.03	0.08	415	e10	28	30
400919084450300	0.08	0.09	0.20	363	e10	8	63
400937084240400	0.21	0.18	0.39	436	e10	4	112
400958084330900	0.08	0.06	0.12	406	e10	9	23
401208084325700	0.19	0.17	0.25	576	e10	39	13
401247084295500	0.32	0.26	0.63	450	e10	12	192
401301084364300	0.14	0.15	0.38	429	e10	12	105
401340084275400	0.32	0.27	0.48	518	e10	12	79
401401084304800	0.35	0.31	0.59	450	10	13	134
401404084381200	0.14	0.10	0.26	552	<10	13	38
401436084404800	0.05	0.05	0.08	498	<10	9	--
401502084421500	0.08	0.05	0.17	405	e10	11	72
401522084423400	0.30	0.27	0.54	410	10	12	142
401612084280200	0.25	0.21	0.42	459	e10	20	103
401723084325900	0.38	0.34	0.73	414	20	13	280
401757084403000	0.24	0.20	0.36	530	10	15	55

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; e, estimated value; --, no data]

Station number	2,6 Diethylaniline (µg/L) (82660)	Acetochlor (µg/L) (49260)	Alachlor (µg/L) (46342)	Alpha BHC (µg/L) (34253)	Atrazine (µg/L) (39632)	Benfluralin (µg/L) (82673)	Butylate (µg/L) (04028)
395611084180600	<0.003	18	0.83	<0.002	e84	<0.002	<0.005
395922084400400	e0.003	7.2	5.3	<0.002	e32	<0.002	<0.002
395929084210500	<0.003	2.3	0.02	<0.002	14	<0.002	<0.002
400039084250900	e0.001	9.1	0.25	<0.002	e27	<0.002	<0.002
400056084391900	e0.002	7.3	1.4	<0.002	e48	<0.002	<0.002
400119084403700	<0.003	7.1	0.19	<0.002	e22	<0.002	<0.002
400126084395300	e0.001	0.32	0.86	<0.002	8.3	<0.002	<0.002
400236084222400	--	--	--	--	--	--	--
400422084244400	<0.003	2.4	0.64	<0.002	14	<0.002	<0.002
400616084355700	<0.003	4.7	0.25	<0.002	e26	<0.002	<0.002
400627084271400	<0.003	6.4	0.69	<0.002	e31	<0.002	<0.002
400701084405100	<0.003	3.8	0.49	<0.002	14	<0.002	<0.002
400834084445500	<0.003	20	0.04	<0.002	e74	<0.002	<0.002
400850084204500	<0.003	9.1	0.05	<0.002	e64	<0.002	<0.002
400906084255300	<0.003	1.2	0.02	<0.002	13	<0.002	<0.002
400919084450300	<0.003	3.9	0.04	<0.002	e25	<0.002	<0.002
400937084240400	<0.003	12	0.97	<0.002	e63	<0.002	<0.002
400958084330900	<0.003	8.5	0.008	<0.002	e38	<0.002	<0.002
401208084325700	<0.003	0.41	0.005	<0.002	15	<0.002	<0.002
401247084295500	e0.002	16	6.0	<0.002	e45	<0.002	<0.002
401301084364300	e0.001	6.0	0.50	<0.002	e30	<0.002	<0.002
401340084275400	e0.001	15	0.61	<0.002	e44	<0.002	<0.002
401401084304800	<0.003	e23	0.81	<0.002	e51	<0.002	<0.002
401404084381200	<0.003	7.3	0.57	<0.002	e50	<0.002	<0.002
401436084404800	<0.003	2.2	0.007	<0.002	10	<0.002	<0.002
401502084421500	<0.003	2.4	0.02	<0.002	e40	<0.002	<0.002
401522084423400	<0.003	8.7	0.04	<0.002	e30	<0.002	<0.002
401612084280200	<0.003	e21	4.2	<0.002	e76	<0.002	<0.002
401723084325900	0.006	e30	e38	<0.002	e61	<0.002	<0.002
401757084403000	e0.001	9.5	0.03	<0.002	e31	<0.002	<0.002

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]

Station number	Carbaryl (µg/L) (82680)	Carbofuran (µg/L) (82674)	Chlorpyrifos (µg/L) (38933)	Cyanazine (µg/L) (04041)	DCPA (µg/L) (82682)	Deethyl-atrazine (µg/L) (04040)	Diazinon (µg/L) (39572)
395611084180600	<0.009	<0.003	0.042	0.62	<0.002	e2.1	0.011
395922084400400	<0.003	<0.003	<0.004	<0.012	<0.002	e2.6	0.007
395929084210500	<0.003	<0.003	0.02	0.52	<0.002	e0.85	<0.002
400039084250900	e0.006	<0.003	0.011	3.9	<0.002	e2.9	<0.002
400056084391900	<0.003	<0.003	<0.004	<0.015	<0.002	e3.0	0.007
400119084403700	<0.003	<0.003	<0.004	5.8	<0.002	e0.96	<0.002
400126084395300	<0.003	<0.003	<0.004	0.013	<0.002	e0.41	0.012
400236084222400	--	<0.003	--	--	--	--	--
400422084244400	<0.003	<0.003	<0.004	0.34	<0.002	e1.2	<0.002
400616084355700	e0.023	<0.003	<0.01	0.86	<0.002	e1.4	0.004
400627084271400	e0.021	<0.003	<0.01	0.86	<0.002	e1.6	0.005
400701084405100	e0.008	<0.003	<0.004	0.68	<0.002	e0.79	e0.004
400834084445500	<0.003	<0.003	0.047	0.75	<0.002	e1.8	<0.002
400850084204500	e0.004	<0.003	<0.008	<0.02	<0.002	e3.7	0.008
400906084255300	<0.003	<0.003	0.007	0.026	<0.002	e0.43	0.005
400919084450300	<0.003	<0.003	<0.004	0.27	<0.002	e1.4	e0.001
400937084240400	e0.012	<0.003	0.025	0.06	<0.002	e1.5	0.006
400958084330900	<0.003	<0.003	<0.010	0.01	<0.002	e0.81	<0.002
401208084325700	<0.003	<0.003	0.008	0.012	<0.002	e0.52	0.004
401247084295500	e0.006	e0.083	<0.02	0.046	<0.002	e2.3	e0.004
401301084364300	e0.079	<0.003	<0.004	0.066	<0.002	e1.5	0.005
401340084275400	e0.005	<0.003	<0.01	<0.03	<0.002	e3.1	e0.004
401401084304800	e0.004	<0.003	<0.004	0.072	<0.002	e2.5	0.005
401404084381200	<0.006	<0.003	0.01	0.011	<0.002	e2.0	<0.002
401436084404800	e0.014	<0.003	<0.004	<0.004	<0.002	e0.56	<0.002
401502084421500	e0.010	<0.007	<0.004	<0.02	e0.001	e1.3	0.005
401522084423400	e0.19	<0.003	<0.004	<0.004	<0.002	e2.4	e0.001
401612084280200	<0.009	<0.003	0.029	0.04	<0.002	e2.1	<0.002
401723084325900	e0.014	<0.003	<0.03	0.073	<0.002	e2.0	<0.002
401757084403000	e0.009	<0.003	<0.008	<0.009	<0.002	e3.1	<0.002

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

[µg/L, micrograms per liter; (39381), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value; --, no data]

Station number	Dieldrin (µg/L) (39381)	Disulfoton (µg/L) (82677)	EPTC (µg/L) (82668)	Ethalfluralin (µg/L) (82663)	Ethoprop (µg/L) (82672)	Fonofos (µg/L) (04095)	Lindane (µg/L) (39341)
395611084180600	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
395922084400400	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	0.011
395929084210500	<0.02	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400039084250900	0.043	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400056084391900	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	0.005
400119084403700	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400126084395300	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400236084222400	--	--	--	--	--	--	--
400422084244400	0.009	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400616084355700	<0.009	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400627084271400	<0.01	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400701084405100	0.014	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400834084445500	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400850084204500	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	0.004
400906084255300	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400919084450300	<0.006	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
400937084240400	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.006
400958084330900	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401208084325700	0.007	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401247084295500	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	e0.007
401301084364300	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	e0.004
401340084275400	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	e0.005
401401084304800	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	e0.010
401404084381200	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401436084404800	<0.008	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401502084421500	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401522084423400	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401612084280200	<0.001	<0.017	<0.006	<0.004	<0.003	<0.003	<0.004
401723084325900	<0.3	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004
401757084403000	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004

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

[µg/L, micrograms per liter; (82666), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value; --, no data]

Station number	Linuron (µg/L) (82666)	Malathion (µg/L) (39532)	Methyl-azinphos (µg/L) (82686)	Methyl-parathion (µg/L) (82667)	Metolachlor (µg/L) (39415)	Metribuzin (µg/L) (82630)	Molinate (µg/L) (82671
395611084180600	0.028	<0.005	<0.01	<0.006	e28	0.72	<0.004
395922084400400	<0.002	<0.005	<0.001	<0.006	2.1	0.89	<0.004
395929084210500	<0.002	<0.005	<0.01	<0.006	6.0	0.49	<0.004
400039084250900	<0.002	<0.005	<0.001	<0.006	9.0	0.36	<0.004
400056084391900	<0.002	<0.005	<0.001	<0.006	4.7	2.3	<0.004
400119084403700	0.064	<0.005	<0.001	<0.006	0.24	0.24	<0.004
400126084395300	0.16	<0.005	<0.001	<0.006	0.25	0.05	<0.004
400236084222400	--	--	--	--	--	--	--
400422084244400	<0.002	<0.005	<0.001	<0.006	7.2	0.80	<0.004
400616084355700	e0.02	<0.005	<0.001	<0.006	7.6	0.44	<0.004
400627084271400	e0.025	<0.005	<0.001	<0.006	9.0	0.50	<0.004
400701084405100	e0.024	<0.005	<0.001	<0.006	3.1	0.12	<0.004
400834084445500	0.023	<0.005	<0.01	<0.006	14	0.30	<0.004
400850084204500	<0.002	<0.005	<0.001	<0.006	e34	1.6	<0.004
400906084255300	<0.002	<0.005	<0.01	<0.006	3.2	0.07	<0.004
400919084450300	<0.002	<0.005	<0.001	<0.006	7.3	0.78	<0.004
400937084240400	<0.002	<0.005	<0.02	<0.006	e27	1.4	<0.004
400958084330900	<0.002	<0.005	<0.01	<0.006	4.8	0.78	<0.004
401208084325700	<0.002	<0.005	<0.01	<0.006	3.0	0.006	<0.004
401247084295500	<0.002	<0.005	<0.001	<0.006	18	1.0	<0.004
401301084364300	<0.002	<0.005	<0.001	<0.006	12	1.4	<0.004
401340084275400	<0.002	<0.005	<0.001	<0.006	20	1.5	<0.004
401401084304800	<0.002	<0.005	<0.001	<0.006	13	0.43	<0.004
401404084381200	<0.002	<0.005	<0.02	<0.006	4.4	0.40	<0.004
401436084404800	<0.002	<0.005	<0.001	<0.006	4.9	0.91	<0.004
401502084421500	<0.002	e0.005	<0.001	<0.006	e24	1.4	<0.004
401522084423400	<0.002	<0.005	<0.001	<0.006	e21	3.4	<0.004
401612084280200	<0.002	<0.005	<0.02	<0.02	18	0.75	<0.004
401723084325900	<0.002	<0.005	<0.001	<0.006	12	1.3	<0.004
401757084403000	<0.002	<0.005	<0.001	<0.006	0.80	0.04	<0.004

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

[µg/L, micrograms per liter; (82684), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; --, no data

Station number	Napropamide (µg/L) (82684)	p,p'-DDE (µg/L) (34653)	Parathion (µg/L) (39542)	Pebulate (µg/L) (82669)	Pendimethalin (µg/L) (82683)	Permethrin, cis (µg/L) (82687)	Phorate (µg/L) (82664)
395611084180600	<0.003	<0.03	<0.004	<0.004	<0.03	<0.005	<0.002
395922084400400	<0.003	<0.006	<0.004	<0.004	<0.12	<0.005	<0.002
395929084210500	<0.003	<0.01	<0.004	<0.004	<0.004	<0.005	<0.002
400039084250900	<0.003	<0.006	<0.004	<0.004	0.03	<0.005	<0.002
400056084391900	<0.003	<0.006	<0.004	<0.004	0.087	<0.005	<0.002
400119084403700	<0.003	<0.006	<0.004	<0.004	0.031	<0.005	<0.002
400126084395300	<0.003	<0.006	<0.004	<0.004	<0.01	<0.005	<0.002
400236084222400	--	--	--	--	--	--	--
400422084244400	<0.003	<0.006	<0.004	<0.004	<0.009	<0.005	<0.002
400616084355700	<0.003	<0.006	<0.004	<0.004	<0.02	<0.005	<0.002
400627084271400	<0.003	<0.006	<0.004	<0.004	<0.02	<0.005	<0.002
400701084405100	<0.003	<0.006	<0.004	<0.004	<0.02	<0.005	<0.002
400834084445500	<0.003	<0.02	<0.004	<0.004	<0.01	<0.005	<0.002
400850084204500	<0.003	<0.006	<0.004	<0.004	<0.004	<0.005	<0.002
400906084255300	<0.003	<0.009	<0.004	<0.004	<0.005	<0.005	<0.002
400919084450300	<0.003	<0.006	<0.004	<0.004	<0.004	<0.005	<0.002
400937084240400	<0.003	<0.04	<0.004	<0.004	0.047	<0.005	<0.002
400958084330900	<0.003	<0.008	<0.004	<0.004	0.039	<0.005	<0.002
401208084325700	<0.003	<0.006	<0.004	<0.004	<0.005	<0.005	<0.002
401247084295500	<0.003	<0.006	<0.004	<0.004	<0.004	<0.005	<0.002
401301084364300	<0.003	<0.006	<0.004	<0.004	0.062	<0.005	<0.002
401340084275400	<0.003	<0.006	<0.004	<0.004	<0.004	<0.005	<0.002
401401084304800	<0.003	<0.006	<0.004	<0.004	0.062	<0.005	<0.002
401404084381200	<0.003	<0.02	<0.004	<0.004	0.081	<0.005	<0.002
401436084404800	<0.003	<0.006	<0.004	<0.004	<0.008	<0.005	<0.002
401502084421500	<0.003	<0.006	<0.004	<0.004	<0.01	<0.005	<0.002
401522084423400	<0.003	<0.006	<0.004	<0.004	<0.06	<0.005	<0.002
401612084280200	<0.003	<0.006	<0.004	<0.004	<0.02	<0.005	<0.002
401723084325900	<0.003	<0.006	<0.004	<0.004	<0.004	<0.005	<0.002
401757084403000	<0.003	<0.006	<0.004	<0.004	<0.01	<0.005	<0.002

PROJECT DATA

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

RESULTS FROM THE STILLWATER RIVER BASIN SYNOPTIC—CONTINUED

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

[µg/L, micrograms per liter; (04037), USGS National Water Information System parameter code; <, concentration or value reported is less than that indicated; e, estimated value; --, no data]

Station number	Prometon (µg/L) (04037)	Pronamide (µg/L) (82676)	Propachlor (µg/L) (04024)	Propanil (µg/L) (82679)	Propargite (µg/L) (82685)	Simazine (µg/L) (04035)	Tebuthiuron (µg/L) (82670)
395611084180600	0.031	<0.003	e0.007	<0.004	<0.013	4.4	e0.008
395922084400400	e0.01	<0.003	<0.007	<0.004	<0.013	0.099	<0.01
395929084210500	0.024	<0.003	<0.007	<0.004	<0.013	0.44	<0.01
400039084250900	e0.008	<0.003	<0.007	<0.004	<0.05	2.1	<0.01
400056084391900	0.022	<0.003	<0.007	<0.004		0.32	<0.01
400119084403700	e0.012	<0.003	<0.007	<0.004	<0.013	5.4	<0.01
400126084395300	e0.008	<0.003	<0.007	<0.004	<0.013	0.044	<0.01
400236084222400	--	--	--	--	--	--	--
400422084244400	e0.005	<0.003	<0.007	<0.004	<0.013	2.3	e0.006
400616084355700	e0.012	<0.003	<0.007	<0.004	<0.013	4.5	e0.007
400627084271400	e0.013	<0.003	<0.007	<0.004	<0.013	4.6	e0.006
400701084405100	e0.005	<0.003	<0.007	<0.004	<0.013	1.3	<0.01
400834084445500	0.025	<0.003	<0.007	<0.004	<0.013	4.2	<0.01
400850084204500	<0.018	<0.003	<0.007	<0.004	<0.013	12	<0.01
400906084255300	e0.007	<0.003	<0.007	<0.004	<0.013	0.82	<0.01
400919084450300	e0.005	<0.003	<0.007	<0.004	<0.013	1.02	e0.009
400937084240400	0.043	<0.003	0.58	<0.004	<0.013	1.1	0.019
400958084330900	e0.009	<0.003	<0.007	<0.004	<0.013	0.15	0.11
401208084325700	e0.008	<0.003	<0.007	<0.004	<0.013	0.02	<0.01
401247084295500	0.31	<0.003	0.20	<0.004	<0.013	3.6	0.013
401301084364300	0.038	<0.003	0.089	<0.004	<0.013	0.34	<0.01
401340084275400	e0.015	<0.003	<0.007	<0.004	<0.013	7.5	<0.01
401401084304800	1.4	<0.003	0.065	<0.004	<0.013	1.8	0.026
401404084381200	0.066	<0.003	0.16	<0.004	<0.013	0.70	<0.01
401436084404800	e0.003	<0.003	<0.007	<0.004	<0.013	0.14	<0.01
401502084421500	<0.018	<0.003	<0.007	<0.004	<0.013	0.087	0.011
401522084423400	<0.018	<0.003	<0.007	<0.004	<0.013	0.33	<0.01
401612084280200	e0.01	<0.003	1.5	<0.004	<0.013	3.3	<0.01
401723084325900	e0.004	<0.003	3.0	<0.004	<0.013	1.2	<0.01
401757084403000	0.10	<0.003	<0.007	<0.004	<0.013	1.5	<0.01

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

[µg/L, micrograms per liter; (04037), USGS National Water Information System parameter code;
<, concentration or value reported is less than that indicated; e, estimated value; --, no data]

Station number	Terbacil (µg/L) (82665)	Terbufos (µg/L) (82675)	Thiobencarb (µg/L) (82681)	Triallate (µg/L) (82678)	Trifluralin (µg/L) (82661)
395611084180600	<0.007	<0.013	<0.002	<0.001	<0.002
395922084400400	<0.007	<0.013	<0.002	<0.001	<0.002
395929084210500	<0.007	<0.013	<0.002	<0.001	<0.002
400039084250900	<0.007	<0.013	<0.002	<0.001	<0.002
400056084391900	<0.007	<0.013	<0.002	<0.001	<0.002
400119084403700	<0.007	<0.013	<0.002	<0.001	<0.002
400126084395300	<0.007	<0.013	<0.002	<0.001	<0.002
400236084222400	--	--	--	--	--
400422084244400	<0.007	<0.013	<0.002	<0.001	<0.002
400616084355700	<0.007	<0.013	<0.002	<0.001	<0.002
400627084271400	<0.007	<0.013	<0.002	<0.001	<0.002
400701084405100	<0.007	<0.013	<0.002	<0.001	<0.002
400834084445500	<0.007	<0.013	<0.002	<0.001	<0.002
400850084204500	<0.007	<0.013	<0.002	<0.001	<0.002
400906084255300	<0.007	<0.013	<0.002	<0.001	<0.002
400919084450300	<0.007	<0.013	<0.002	<0.001	<0.002
400937084240400	e0.006	<0.013	<0.002	<0.001	<0.004
400958084330900	<0.007	<0.013	<0.002	<0.001	<0.002
401208084325700	<0.007	<0.013	<0.002	<0.001	<0.004
401247084295500	<0.007	<0.013	<0.002	<0.001	<0.002
401301084364300	<0.007	<0.013	<0.002	<0.001	<0.002
401340084275400	<0.007	<0.013	<0.002	<0.001	<0.002
401401084304800	<0.007	<0.013	<0.002	<0.001	<0.002
401404084381200	e0.006	<0.013	<0.002	<0.001	<0.002
401436084404800	<0.007	<0.013	<0.002	<0.001	<0.002
401502084421500	<0.007	<0.013	<0.002	<0.001	<0.002
401522084423400	<0.007	<0.013	<0.002	<0.001	<0.002
401612084280200	e0.006	<0.013	<0.002	<0.001	<0.004
401723084325900	<0.007	<0.013	<0.002	<0.001	e0.002
401757084403000	<0.007	<0.013	<0.002	<0.001	<0.002

Reference cited:

——Wilde, F.D., Radtke, D.B., Gibs, J., and Iwatsubo, R.T., 1999, National Field Manual for the Collection of Water-Quality Data: U.S. Geological Survey Techniques of Water-Resources Investigations book 9, chap. A5, 128 p.

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

[(49270), USGS National Water Information System parameter code; bm, bottom material; ws, wet sieved; mm, millimeters; dw, dry weight; g/kg, grams per kilograms; --, no data]

Station number	Date	Time	Carbon, inorganic sediment, bm ws, 2mm dw, (g/kg) (49270)	Carbon, organic sediment, bm ws, 2mm dw, (g/kg) (49271)	Carbon, organic plus inorganic sediment, bm ws, 2mm dw, (g/kg) (49272)
395611084180600	08/24/00	1115	30	18	48
395922084400400	--	--	--	--	--
395929084210500	08/24/00	1315	51	7.1	58
400039084250900	08/24/00	1430	16	27	43
400056084391900	08/29/00	1230	21	26	47
400119084403700	08/29/00	1345	40	44	84
400126084395300	08/29/00	1315	39	31	70
400236084222400	09/07/00	1230	40	7.1	47
400422084244400	09/07/00	1145	26	6.8	34
400616084355700	08/30/00	1030	29	36	65
400627084271400	--	--	--	--	--
400701084405100	08/29/00	1445	34	12	46
400834084445500	08/29/00	1530	28	30	58
400850084204500	09/07/00	1100	28	7.2	35
400906084255300	09/07/00	1030	18	18	36
400919084450300	08/29/00	1615	22	19	41
400937084240400	09/07/00	1000	37	2.1	39
400958084330900	09/06/00	1800	30	26	56
401208084325700	09/06/00	1700	7.0	24	31
401247084295500	09/06/00	1600	28	22	50
401301084364300	08/30/00	1130	42	6.2	48
401340084275400	09/06/00	1530	25	15	40
401401084304800	09/06/00	1630	59	11	70
401404084381200	08/30/00	1230	45	12	57
401436084404800	08/30/00	1535	36	15	51
401502084421500	08/30/00	1500	36	12	48
401522084423400	08/30/00	1430	46	11	57
401612084280200	09/06/00	1500	17	19	36
401723084325900	09/06/00	1400	28	11	39
401757084403000	08/30/00	1330	12	24	36

Reference cited:

——Shelton, L.R., and Capel, P.D., 1994, Guidelines for collecting and processing samples of stream bed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458, 20 p.