

PROJECT DATA
Results from selected sites in the Great and Little Miami River Basins
(National Water-Quality Assessment Program)

Fish community surveys were conducted at seven sites in the Great and Little Miami River Basins as part of the National Water-Quality Assessment Program (NAWQA). Fish were collected by electrofishing with pulsed-DC current in a mapped reach at each site. Two electrofishing passes were done at each reach in a single day. Electrofishing was done by use of a barge electroshocker at all sites excluding the Great Miami River below Hamilton Ohio where non-wadeable stream depths required the use of a boat. Fish were identified, measured, weighed, and checked for external anomalies such as parasites, lesions, and skeletal anomalies. Fish were identified in the field by Dr. Terry Keiser, Ohio Northern University, representative specimens were preserved, identified, and vouchered at the University. More details regarding collection methods can be found in Meador and others (1993). Taxonomy is based on Robins and others (1991). [-- = not present at indicated site; ** = Species were identified by voucher and weights were not recorded; Degree, minute, and second symbols are omitted from latitude and longitude]

CALENDAR YEAR 1998

Station Number	Station Name	Date Sampled	Drainage Area (miles ²)	Reach Length (meters)	Specific Conductance (us/cm) (90095)	pH (00040)	Water Temperature (DEG C) (00010)	Dissolved Oxygen (mg/L) (00300)
393944084120700	Holes Creek at Huffman Park at Kettering, OH	9/10/98	20.0	205	667	7.8	14.9	8.3
393259085101200	Whitewater River near Alpine, IN	9/15/98	533.2	400	654	6.9	20.4	7.4
395433084175300	Stillwater River on Old Springfield Rd near Union, OH	9/17/98	642.7	250	760	8.2	21.7	7.8
395534084091400	Great Miami River near Tipp City, OH	9/9/98	1128.3	400	756	8.1	18.2	7.5
395650083504400	Mad River near Hwy 41 near Springfield, OH	9/14/98	318.6	300	740	7.8	16.5	7.6
392246084340100	Great Miami River below Hamilton, OH	9/1/98	3635.8	500	731	8.5	27.4	10.5
03245500	Little Miami River at Milford, OH	9/16/98	1202.5	265	906	8.0	23.8	7.1

Station Name			Holes Creek at Huffman Park at Kettering, OH	Whitewater River near Alpine, IN		Stillwater River on Springfield Rd near Union OH		Great Miami River near Tipp City, OH	
Latitude	(North)		393944	393259		395433		395534	
Longitude	(West)		841207	851012		841753		840914	
FAMILY	SCIENTIFIC NAME	COMMON NAME	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE
Petromyzontidae	<i>Lampetra appendix</i>	american brook lamprey	--	--	--	--	--	--	--
Lepisosteidae	<i>Lepisosteus osseus</i>	longnose gar	--	--	--	--	--	--	--
Clupidae	<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	2	29.5	44	417.9
Salmonidae	<i>Salmo trutta</i>	brown trout	--	--	--	--	--	--	--
Cyprinidae	<i>Cyprinus carpio</i>	common carp	16	20332.3	7	16423.3	17	33259.1	12
									15774.2

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	<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--	1	14.0
	<i>Ambloplites rupestris</i>	rock bass	--	--	10	707.9	7	233.3	33	2182.0
Centrarchidae	<i>Micropterus dolomieu</i>	smallmouth bass	1	28.0	22	1359.5	16	3640.4	37	2789.0
	<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	2	55.1	1	2.0
	<i>Micropterus salmoides</i>	largemouth bass	27	61.3	5	61.0	1	8.6	--	--
	<i>Lepomis cyanellus</i>	green sunfish	19	369.6	--	--	6	142.4	18	504.0
	<i>Lepomis macrochirus</i>	bluegill	14	121.2	--	--	--	--	14	194.7
	<i>Lepomis humilis</i>	orangespotted sunfish	--	--	--	--	3	19.2	--	--
	<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	2	53.2	41	556.4
	<i>Lepomis gibbosus</i>	pumpkinseed	--	--	--	--	--	--	9	48.0
Percidae	<i>Stizostedion canadense</i>	sauger	--	--	--	--	--	--	--	--
	<i>Percina phoxocephala</i>	slenderhead darter	--	--	--	--	--	--	--	--
	<i>Percina caprodes</i>	logperch	--	--	--	--	23	213.6	1	16.5
	<i>Etheostoma blennioides</i>	greenside darter	--	--	6	13.9	32	202.4	20	54.0
	<i>Etheostoma zonale</i>	banded darter	--	--	2	4.5	9	18.3	4	4.8
	<i>Etheostoma caeruleum</i>	rainbow darter	--	--	13	15.5	14	23.2	7	7.4
	<i>Etheostoma flabellare</i>	fantail darter	44	90.1	1	4.0	1	2.5	--	--
Sciaenidae	<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--	--	--
Cottidae	<i>Cottus bairdi</i>	mottled sculpin	--	--	6	66.7	--	--	1	3.4
NUMBER OF SPECIES			18	--	24	--	31	--	36	--
HYBRIDS			--	--	--	--	1	4.2	5	462.0
TOTAL NUMBER OF FISH			1893	--	627	--	1249	--	805	--

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Station Name			Mad River near Hwy 41 near Springfield, Ohio		Great Miami below Hamilton, Ohio		Little Miami at Milford, Ohio	
Latitude	(North)		395650		392246		391017	
Longitude	(West)		835044		843401		841753	
FAMILY	SCIENTIFIC NAME	COMMON NAME	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE	BATCH WEIGHT (g)
Petromyzontidae	<i>Lampetra appendix</i>	american brook lamprey	2	34.7	--	--	--	--
Lepisosteidae	<i>Lepisosteus osseus</i>	longnose gar	--	--	9	7568.0	--	--
Clariidae	<i>Dorosoma cepedianum</i>	gizzard shad	--	--	3	366.0	18	2078.0
Salmonidae	<i>Salmo trutta</i>	brown trout	3	1272.9	--	--	--	--
Cyprinidae	<i>Cyprinus carpio</i>	common carp	10	4799.9	25	54645.5	4	15204.9
	<i>Carassius auratus</i>	goldfish	--	--	--	--	--	--
	<i>Nocomis biguttatus</i>	horneyhead chub	--	--	--	--	--	--
	<i>Nocomis micropogon</i>	river chub	--	--	--	--	--	--
	<i>Erimystax x-punctatus</i>	gravel chub	--	--	--	--	6	**
	<i>Rhinichthys atratulus</i>	blacknose dace	125	523.6	--	--	2	6.1
	<i>Semotilus atromaculatus</i>	creek chub	407	6859.2	--	--	4	23.6
	<i>Phenacobius mirabilis</i>	suckermouth minnow	--	--	--	--	17	140.3
	<i>Clinostomus elongatus</i>	redside dace	22	115.4	--	--	--	--
	<i>Notropis atherinoides</i>	emerald shiner	--	--	--	--	148	270.4
	<i>Notropis photogenis</i>	silver shiner	--	--	--	--	--	--
	<i>Luxilus chryscephalus</i>	striped shiner	6	120.9	--	--	--	--
	<i>Cyprinella whipplei</i>	steelcolor shiner	--	--	--	--	2	15.4
	<i>Cyprinella spiloptera</i>	spotfin shiner	--	--	--	--	6	29.2
	<i>Notropis stramineus</i>	sand shiner	--	--	--	--	10	6.3
	<i>Notropis buccatus</i>	silverjaw minnow	--	--	--	--	--	--
	<i>Pimephales promelas</i>	fathead minnow	3	9.5	--	--	--	--
	<i>Pimephales notatus</i>	bluntnose minnow	9	29.4	--	--	30	43.2
	<i>Campostoma anomalum</i>	stoneroller	310	4184.6	--	--	56	334.6
Catostomidae	<i>Ictalurus niger</i>	black buffalofish	--	--	17	28431.0	5	8650.6
	<i>Carpio cyprinus</i>	quillback carpsucker	--	--	3	1982.0	--	--
	<i>Carpio carpio</i>	river carpsucker	--	--	6	3918.0	--	--
	<i>Carpio velifer</i>	highfin carpsucker	--	--	4	1630.0	--	--
	<i>Moxostoma anisurum</i>	silver redhorse	--	--	5	10617.0	--	--
	<i>Moxostoma duquesnei</i>	black redhorse	--	--	--	--	--	--
	<i>Moxostoma erythrurum</i>	golden redhorse	--	--	46	15450.0	3	2189.0
	<i>Moxostoma macrolepidotum</i>	shorthead redhorse	--	--	13	8236.0	16	8248.0
	<i>Moxostoma carinatum</i>	river redhorse	--	--	--	--	--	--

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FAMILY	SCIENTIFIC NAME	COMMON NAME	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE	BATCH WEIGHT (g)	ABUNDANCE	BATCH WEIGHT (g)
Ictaluridae	<i>Hypentelium nigricans</i>	northern hog sucker	38	11279.8	1	66.0	34	10039.7
	<i>Catostomus commersoni</i>	white sucker	576	40553.0	--	--	--	--
	<i>Ictalurus punctatus</i>	channel catfish	--	--	18	7458.0	23	3569.2
	<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
	<i>Pylodictis olivaris</i>	flathead catfish	--	--	2	2442.0	5	86.2
Percichthyidae	<i>Noturus flavus</i>	stonecat	--	--	--	--	44	**
	<i>Noturus miurus</i>	brindled madtom	--	--	--	--	5	20.2
	<i>Morone chrysops</i>	white bass	--	--	1	234.0	1	482.0
	<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
	<i>Ambloplites rupestris</i>	rock bass	--	--	--	--	--	--
Centrarchidae	<i>Micropterus dolomieu</i>	smallmouth bass	--	--	2	244.0	30	1320.3
	<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	12	185.4
	<i>Micropterus salmoides</i>	largemouth bass	7	70.0	--	--	--	--
	<i>Lepomis cyanellus</i>	green sunfish	3	40.3	--	--	3	29.2
	<i>Lepomis macrochirus</i>	bluegill	18	320.8	1	30.0	10	111.6
Percidae	<i>Lepomis humilis</i>	orangespotted sunfish	--	--	--	--	2	6.5
	<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	4	90.4
	<i>Lepomis gibbosus</i>	pumpkinseed	--	--	--	--	1	10.8
	<i>Stizostedion canadense</i>	saurer	--	--	15	7342.0	--	--
	<i>Percina phoxocephala</i>	slenderhead darter	--	--	1	5.3	36	156.4
Sciaenidae	<i>Percina caprodes</i>	logperch	--	--	3	52.0	4	117.3
	<i>Etheostoma blennioides</i>	greenside darter	2	10.9	--	--	7	44.0
	<i>Etheostoma zonale</i>	banded darter	--	--	--	--	50	96.2
	<i>Etheostoma caeruleum</i>	rainbow darter	4	8.3	--	--	7	24.6
	<i>Etheostoma flabellare</i>	fantail darter	--	--	--	--	2	4.0
Cottidae	<i>Aplodinotus grunniens</i>	freshwater drum	--	--	52	10813.0	12	2753.0
	<i>Cottus bairdi</i>	mottled sculpin	135	536.4	--	--	--	--
NUMBER OF SPECIES			18	--	20	--	35	--
HYBRIDS			--	--	--	--	--	--
TOTAL NUMBER OF FISH			1680	--	227	--	619	--

References cited:

Robin, C.R., Bailey, R.M., Bond, C.E., Brooker, J.R., Lachner, E.A., Lea, R.N., and Scott, W.B., 1991, *Common and Scientific names of fishes from the United States and Canada*, Fifth Edition: American Fisheries Society Special Publication 20, Bethesda, MD, 183 p.

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