

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02338523 HILLABAHATCHEE CREEK AT THAXTON ROAD, NEAR FRANKLIN, GA
(National Water-Quality Assessment station)**

LOCATION.—Lat 33°20'26", long 85°13'37" referenced to North American Datum (NAD) of 1927, Heard County, Hydrologic Unit 03130002, 0.4 miles downstream of confluence of Red Oak Creek, 9.0 miles northwest of Franklin, 1.4 miles southwest of GA 100 on Thaxton Road.

DRAINAGE AREA.—16.8 square miles, approximately.

COOPERATION.—USGS National Water-Quality Assessment (NAWQA) Program; Atlanta Regional Commission.

PERIODIC ECOLOGICAL RECORDS

PERIOD OF RECORD.— 2001 to present. Current water year data: May 27, 2004 (invertebrates) and October 13, 2004 (fishes).

REMARKS.— Data collection protocols used are from the Revised Protocols for Sampling Algal, Invertebrate, and Fish Communities as Part of the National Water-Quality Assessment Program (USGS, Open File Report 02-150, 2002). The Biological Group of the USGS National Water Quality Laboratory identified invertebrates and Mary Freeman and Paula Marcinek of USGS, Biological Resources Division, identified fishes. Total reach length assessed was 200 meters. Invertebrate data abbreviations: QMH-qualitative sample, RTH-quantitative sample, sp.-species, L-larvae, A-adult, P-pupae. Fish abbreviations: sp.-species, 11A-pass 1, 11B-pass 2, TL-total length, mm-millimeters, g-grams.

Invertebrates

Sample	Type	Order	Family	Scientific Name	Lifestage	Abundance
QMH		Veneroida	Sphaeriidae	Pisidium sp.		1
QMH		Decapoda	Cambaridae	Cambaridae		1
QMH		Amphipoda	Hyalellidae	Hyalella azteca (Saussure)		1
QMH		Ephemeroptera	Ephemeridae	Hexagenia limbata (Serville)	L	1
QMH		Ephemeroptera	Caenidae	Caenis sp.	L	1
QMH		Ephemeroptera	Ephemerellidae	Attenella attenuata (McDunnough)	L	1
QMH		Ephemeroptera	Ephemerellidae	Eurylophella sp.	L	1
QMH		Ephemeroptera	Ephemerellidae	Serratella deficiens (Morgan)	L	1
QMH		Ephemeroptera	Baetidae	Baetidae	L	1
QMH		Ephemeroptera	Baetidae	Acentrella turbida (McDunnough)	L	1
QMH		Ephemeroptera	Baetidae	Baetis intercalaris McDunnough	L	1
QMH		Ephemeroptera	Baetidae	Pseudocloeon sp.	L	1
QMH		Ephemeroptera	Heptageniidae	Heptageniidae	L	1
QMH		Ephemeroptera	Heptageniidae	Stenonema sp.	L	1
QMH		Odonata	Calopterygidae	Calopteryx maculata (Beauvois)	L	1
QMH		Odonata	Aeshnidae	Boyeria vinosa (Say)	L	1
QMH		Odonata	Gomphidae	Gomphus sp.	L	1
QMH		Odonata	Gomphidae	Hagenius brevistylus Selys	L	1
QMH		Odonata	Gomphidae	Progomphus sp.	L	1
QMH		Plecoptera	Leuctridae	Leuctra sp.	L	1
QMH		Plecoptera	Perlidae	Acroneuria sp.	L	1
QMH		Plecoptera	Perlidae	Perlesta sp.	L	1
QMH		Hemiptera	Nepidae	Ranatra buenoi Hungerford	A	1
QMH		Hemiptera	Velidae	Rhagovelia obesa Uhler	L	1
QMH		Megaloptera	Corydalidae	Corydalus cornutus (Linnaeus)	L	1
QMH		Megaloptera	Sialidae	Sialis sp.	L	1
QMH		Trichoptera	Brachycentridae	Micrasema sp.	L	1
QMH		Trichoptera	Limnephilidae	Pycnopsyche sp.	L	1
QMH		Trichoptera	Leptoceridae	Leptoceridae	L	1
QMH		Coleoptera	Gyrinidae	Dineutus ciliatus (Forsberg)	A	1
QMH		Coleoptera	Gyrinidae	Gyrinus sp.	L	1
QMH		Coleoptera	Staphylinidae	Staphylinidae	L	1

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—continued.

Sample	Type	Order	Family	Scientific Name	Lifestage	Abundance
QMH		Coleoptera	Elmidae	Dubiraphia sp.	L	1
QMH		Coleoptera	Elmidae	Optioservus sp.	L	1
QMH		Coleoptera	Elmidae	Stenelmis sp.	L	1
QMH		Coleoptera	Psephenidae	Psephenus herricki (DeKay)	L	1
QMH		Coleoptera	Ptilodactylidae	Anchytarsus bicolor (Melsheimer)	L	1
QMH		Diptera	Ceratopogonidae	Ceratopogonidae	P	1
QMH		Diptera	Chironomidae	Chironomidae	L	1
QMH		Diptera	Chironomidae	Phaenopsectra/Tribelos sp.	L	1
QMH		Diptera	Chironomidae	Chironomus sp.	L	1
QMH		Diptera	Chironomidae	Cryptochironomus sp.	L	1
QMH		Diptera	Chironomidae	Parachironomus sp.	L	1
QMH		Diptera	Chironomidae	Phaenopsectra sp.	L	1
QMH		Diptera	Chironomidae	Polypedilum sp.	L	1
QMH		Diptera	Chironomidae	Robackia sp.	L	1
QMH		Diptera	Chironomidae	Tribelos sp.	L	1
QMH		Diptera	Chironomidae	Micropsectra/Tanytarsus sp.	L	1
QMH		Diptera	Chironomidae	Cladotanytarsus sp.	L	1
QMH		Diptera	Chironomidae	Rheotanytarsus sp.	L	1
QMH		Diptera	Chironomidae	Cricotopus sp.	L	1
QMH		Diptera	Chironomidae	Parametricnemus sp.	L	1
QMH		Diptera	Chironomidae	Rheocricotopus sp.	L	1
QMH		Diptera	Chironomidae	Tvetenia sp.	L	1
QMH		Diptera	Chironomidae	Ablabesmyia sp.	L	1
QMH		Diptera	Chironomidae	Labrundinia sp.	L	1
QMH		Diptera	Simuliidae	Simuliidae	L	1
RTH		Hemiptera	Veliidae	Rhagovelia obesa Uhler	A	1
RTH		Coleoptera	Dryopidae	Helichus basalis LeConte	A	1
RTH		Ephemeroptera	Caenidae	Caenis sp.	L	168
RTH		Ephemeroptera	Ephemerellidae	Serratella sp.	L	134
RTH		Ephemeroptera	Baetidae	Baetidae	L	34
RTH		Ephemeroptera	Baetidae	Baetidae	L	202
RTH		Ephemeroptera	Baetidae	Baetis flavistriga McDunnough	L	67
RTH		Ephemeroptera	Baetidae	Baetis intercalaris McDunnough	L	202
RTH		Ephemeroptera	Baetidae	Plauditus sp.	L	101
RTH		Ephemeroptera	Heptageniidae	Heptageniidae	L	34
RTH		Ephemeroptera	Heptageniidae	Stenonema sp.	L	34
RTH		Ephemeroptera	Heptageniidae	Stenonema modestum (Banks)	L	2
RTH		Ephemeroptera	Isonychiidae	Isonychia sp.	L	236
RTH		Odonata	Gomphidae	Gomphidae	L	34
RTH		Plecoptera	Leuctridae	Leuctra sp.	L	101
RTH		Plecoptera	Peltoperlidae	Peltoperlidae	L	34
RTH		Plecoptera	Perlidae	Perlidae	L	168
RTH		Plecoptera	Perlidae	Perlesta sp.	L	103
RTH		Megaloptera	Corydalidae	Nigronia sp.	L	34
RTH		Megaloptera	Corydalidae	Corydalus cornutus (Linnaeus)	L	13
RTH		Trichoptera	Hydroptilidae	Mayatrichia sp.	L	67
RTH		Trichoptera	Hydropsychidae	Hydropsychidae	L	672
RTH		Trichoptera	Hydropsychidae	Ceratopsyche sp.	L	403
RTH		Trichoptera	Hydropsychidae	Ceratopsyche sparna (Ross)	L	68
RTH		Trichoptera	Hydropsychidae	Cheumatopsyche sp.	L	101
RTH		Trichoptera	Brachycentridae	Micrasema sp.	L	34
RTH		Coleoptera	Elmidae	Optioservus sp.	L	235
RTH		Coleoptera	Elmidae	Oulimnius latiusculus (LeConte)	L	101
RTH		Coleoptera	Elmidae	Promoresia sp.	L	67
RTH		Coleoptera	Psephenidae	Psephenus herricki (DeKay)	L	35
RTH		Coleoptera	Ptilodactylidae	Anchytarsus bicolor (Melsheimer)	L	67
RTH		Diptera	Chironomidae	Microtendipes sp.	L	34
RTH		Diptera	Chironomidae	Polypedilum sp.	L	67
RTH		Diptera	Chironomidae	Rheotanytarsus sp.	L	4637
RTH		Diptera	Chironomidae	Sublettea coffmani (Roback)	L	67
RTH		Diptera	Chironomidae	Tanytarsus sp.	L	34
RTH		Diptera	Chironomidae	Brillia sp.	L	34
RTH		Diptera	Chironomidae	Eukiefferiella sp.	L	34
RTH		Diptera	Chironomidae	Nanocladius sp.	L	34
RTH		Diptera	Chironomidae	Parametricnemus sp.	L	34
RTH		Diptera	Chironomidae	Rheocricotopus sp.	L	34
RTH		Diptera	Chironomidae	Synorthocladius sp.	L	34
RTH		Diptera	Chironomidae	Tvetenia sp.	L	168
RTH		Diptera	Chironomidae	Thienemannimyia group sp. (CoffmaL	L	101
RTH		Diptera	Chironomidae	Nilotanypus sp.	L	34
RTH		Diptera	Simuliidae	Simuliidae	L	67
RTH		Diptera	Tipulidae	Tipula sp.	L	1
RTH		Diptera	Tipulidae	Antocha sp.	L	134

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RTH		Diptera	Empididae	Hemerodromia sp.	L	34
RTH		Diptera	Chironomidae	Chironominae	P	235
RTH				Megadrile		1
RTH		Lumbriculida	Lumbriculidae	Lumbriculidae		34
RTH		Tubificida	Naididae	Naididae		67
RTH		Enchytraeida	Enchytraeidae	Enchytraeidae		34
RTH				Acari		202

Fishes

Scientific Name	Common Name	Method	Shock	Seconds	Count	TL(mm)	Weight(g)
Ameiurus brunneus	snail bullhead	11A	1216		1	66	3.7
Ameiurus brunneus	snail bullhead	11A	1216		1	64	2.8
Ameiurus brunneus	snail bullhead	11A	1216		1	60	3.6
Ameiurus brunneus	snail bullhead	11A	1216		1	106	13.9
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	110	13.3
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	52	1.4
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	99	11.1
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	53	2.5
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	94	9.6
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	93	8.1
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	86	7.6
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	124	18.6
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	48	2.1
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	50	2.4
Campostoma pauciradii	bluefin stoneroller	11A	1216		1	40	1.4
Hypentelium nigricans	northern hog sucker	11A	1216		1	185	62.5
Hypentelium nigricans	northern hog sucker	11A	1216		1	68	2.8
Hypentelium nigricans	northern hog sucker	11A	1216		1	71	4.2
Hypentelium nigricans	northern hog sucker	11A	1216		1	65	3.3
Hypentelium nigricans	northern hog sucker	11A	1216		1	60	3.3
Lepomis auritus	redbreast sunfish	11A	1216		1	64	3.9
Lepomis auritus	redbreast sunfish	11A	1216		1	84	9.7
Lepomis auritus	redbreast sunfish	11A	1216		1	26	0.3
Lepomis macrochirus	bluegill	11A	1216		1	50	1.7
Luxilus zonistius	bandfin shiner	11A	1216		1	28	0.2
Luxilus zonistius	bandfin shiner	11A	1216		1	48	1
Luxilus zonistius	bandfin shiner	11A	1216		1	70	3.1
Luxilus zonistius	bandfin shiner	11A	1216		1	80	4.8
Luxilus zonistius	bandfin shiner	11A	1216		1	36	0.5
Luxilus zonistius	bandfin shiner	11A	1216		1	54	1.5
Luxilus zonistius	bandfin shiner	11A	1216		1	27	0.3
Luxilus zonistius	bandfin shiner	11A	1216		1	55	2.5
Luxilus zonistius	bandfin shiner	11A	1216		1	60	1.9
Luxilus zonistius	bandfin shiner	11A	1216		1	48	1
Luxilus zonistius	bandfin shiner	11A	1216		1	24	0.1
Luxilus zonistius	bandfin shiner	11A	1216		1	25	0.2
Luxilus zonistius	bandfin shiner	11A	1216		1	65	2.4
Luxilus zonistius	bandfin shiner	11A	1216		1	49	1.1
Luxilus zonistius	bandfin shiner	11A	1216		1	53	1.4
Luxilus zonistius	bandfin shiner	11A	1216		1	25	0.1
Luxilus zonistius	bandfin shiner	11A	1216		1	28	0.2
Luxilus zonistius	bandfin shiner	11A	1216		1	29	0.2
Luxilus zonistius	bandfin shiner	11A	1216		1	49	0.9
Luxilus zonistius	bandfin shiner	11A	1216		1	98	9.9
Luxilus zonistius	bandfin shiner	11A	1216		1	90	6.3
Luxilus zonistius	bandfin shiner	11A	1216		1	45	0.6
Luxilus zonistius	bandfin shiner	11A	1216		1	34	0.3
Luxilus zonistius	bandfin shiner	11A	1216		1	24	0.2
Luxilus zonistius	bandfin shiner	11A	1216		1	80	5.2
Luxilus zonistius	bandfin shiner	11A	1216		1	52	1.1
Luxilus zonistius	bandfin shiner	11A	1216		1	56	1.4
Luxilus zonistius	bandfin shiner	11A	1216		1	55	1.7
Luxilus zonistius	bandfin shiner	11A	1216		1	45	0.8
Luxilus zonistius	bandfin shiner	11A	1216		1	30	0.3
Luxilus zonistius	bandfin shiner	11A	1216		264		391.8
Micropterus coosae	redeye bass	11A	1216		1	111	17.2
Micropterus coosae	redeye bass	11A	1216		1	84	8.8
Micropterus coosae	redeye bass	11A	1216		1	54	4.9
Micropterus coosae	redeye bass	11A	1216		1	95	10.2
Micropterus coosae	redeye bass	11A	1216		1	65	3.8
Micropterus coosae	redeye bass	11A	1216		1	65	3.2
Micropterus coosae	redeye bass	11A	1216		1	75	4.9

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Scientific Name	Common Name	Method	Shock Seconds	Count	TL(mm)	Weight (g)
Nocomis leptocephalus	bluehead chub	11A	1216	1	68	3
Nocomis leptocephalus	bluehead chub	11A	1216	1	60	3.4
Nocomis leptocephalus	bluehead chub	11A	1216	1	84	5.5
Nocomis leptocephalus	bluehead chub	11A	1216	1	66	3.5
Nocomis leptocephalus	bluehead chub	11A	1216	1	65	2.9
Nocomis leptocephalus	bluehead chub	11A	1216	1	63	2.7
Nocomis leptocephalus	bluehead chub	11A	1216	1	60	2.4
Nocomis leptocephalus	bluehead chub	11A	1216	1	58	2.1
Nocomis leptocephalus	bluehead chub	11A	1216	1	44	1.1
Nocomis leptocephalus	bluehead chub	11A	1216	1	130	26
Nocomis leptocephalus	bluehead chub	11A	1216	1	139	32.7
Nocomis leptocephalus	bluehead chub	11A	1216	1	125	25.1
Nocomis leptocephalus	bluehead chub	11A	1216	1	65	3.5
Nocomis leptocephalus	bluehead chub	11A	1216	1	60	2.8
Nocomis leptocephalus	bluehead chub	11A	1216	1	83	6.1
Nocomis leptocephalus	bluehead chub	11A	1216	1	60	2.6
Nocomis leptocephalus	bluehead chub	11A	1216	1	70	3.9
Nocomis leptocephalus	bluehead chub	11A	1216	1	60	2.8
Nocomis leptocephalus	bluehead chub	11A	1216	1	35	1.2
Nocomis leptocephalus	bluehead chub	11A	1216	1	35	1.2
Nocomis leptocephalus	bluehead chub	11A	1216	1	63	3
Nocomis leptocephalus	bluehead chub	11A	1216	1	110	15.4
Nocomis leptocephalus	bluehead chub	11A	1216	1	70	3.9
Nocomis leptocephalus	bluehead chub	11A	1216	1	65	3.6
Nocomis leptocephalus	bluehead chub	11A	1216	1	91	9.5
Nocomis leptocephalus	bluehead chub	11A	1216	1	70	3.9
Nocomis leptocephalus	bluehead chub	11A	1216	1	76	5.1
Nocomis leptocephalus	bluehead chub	11A	1216	1	70	4
Nocomis leptocephalus	bluehead chub	11A	1216	1	59	2.8
Nocomis leptocephalus	bluehead chub	11A	1216	1	60	2.7
Nocomis leptocephalus	bluehead chub	11A	1216	30		206.1
Percina nigrofasciata	blackbanded darter	11A	1216	1	57	2.3
Percina nigrofasciata	blackbanded darter	11A	1216	1	54	2
Percina nigrofasciata	blackbanded darter	11A	1216	1	58	2.2
Percina nigrofasciata	blackbanded darter	11A	1216	1	48	1.6
Percina nigrofasciata	blackbanded darter	11A	1216	1	64	2.6
Percina nigrofasciata	blackbanded darter	11A	1216	1	67	2.9
Percina nigrofasciata	blackbanded darter	11A	1216	1	31	1
Percina nigrofasciata	blackbanded darter	11A	1216	1	50	1.7
Percina nigrofasciata	blackbanded darter	11A	1216	1	54	1.7
Percina nigrofasciata	blackbanded darter	11A	1216	1	63	2.5
Percina nigrofasciata	blackbanded darter	11A	1216	1	64	2.9
Percina nigrofasciata	blackbanded darter	11A	1216	1	50	1.7
Percina nigrofasciata	blackbanded darter	11A	1216	1	48	1.6
Percina nigrofasciata	blackbanded darter	11A	1216	1	48	1.7
Percina nigrofasciata	blackbanded darter	11A	1216	1	45	1.4
Percina nigrofasciata	blackbanded darter	11A	1216	1	48	1.5
Percina nigrofasciata	blackbanded darter	11A	1216	1	52	1.8
Percina nigrofasciata	blackbanded darter	11A	1216	1	45	1.5
Percina nigrofasciata	blackbanded darter	11A	1216	1	55	1.9
Percina nigrofasciata	blackbanded darter	11A	1216	1	50	1.8
Percina nigrofasciata	blackbanded darter	11A	1216	1	47	1.5
Percina nigrofasciata	blackbanded darter	11A	1216	1	55	1.7
Percina nigrofasciata	blackbanded darter	11A	1216	1	44	1.3
Percina nigrofasciata	blackbanded darter	11A	1216	1	54	1.9
Percina nigrofasciata	blackbanded darter	11A	1216	1	54	1.8
Percina nigrofasciata	blackbanded darter	11A	1216	1	43	1.2
Percina nigrofasciata	blackbanded darter	11A	1216	1	45	1.5
Percina nigrofasciata	blackbanded darter	11A	1216	1	54	1.8
Percina nigrofasciata	blackbanded darter	11A	1216	1	73	4.1
Percina nigrofasciata	blackbanded darter	11A	1216	1	70	4
Percina nigrofasciata	blackbanded darter	11A	1216	1	41	1.4
Percina nigrofasciata	blackbanded darter	11A	1216	54		91
Campostoma pauciradii	bluefin stoneroller	11B	1240	1	106	10.1
Campostoma pauciradii	bluefin stoneroller	11B	1240	1	105	11.8
Campostoma pauciradii	bluefin stoneroller	11B	1240	1	47	1.6
Hypentelium nigricans	northern hog sucker	11B	1240	1	66	3.5
Hypentelium nigricans	northern hog sucker	11B	1240	1	68	3.5
Hypentelium nigricans	northern hog sucker	11B	1240	1	60	3.2
Hypentelium nigricans	northern hog sucker	11B	1240	1	115	17.3
Lepomis auritus	redbreast sunfish	11B	1240	1	27	0.6
Lepomis auritus	redbreast sunfish	11B	1240	1	107	20.4
Lepomis auritus	redbreast sunfish	11B	1240	1	98	15.6
Lepomis auritus	redbreast sunfish	11B	1240	1	63	4.5
Lepomis auritus	redbreast sunfish	11B	1240	1	31	1.1
Lepomis auritus	redbreast sunfish	11B	1240	1	25	0.9
Lepomis auritus	redbreast sunfish	11B	1240	1	25	0.8
Lepomis auritus	redbreast sunfish	11B	1240	1	31	1
Luxilus zonistius	bandfin shiner	11B	1240	107		200.6

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—continued.**

Scientific Name	Common Name	Method	Shock Seconds	Count	TL(mm)	Weight (g)
Micropterus coosae	redestye bass	11B	1240	1	99	10.9
Micropterus coosae	redestye bass	11B	1240	1	70	3.9
Micropterus coosae	redestye bass	11B	1240	1	50	1.6
Micropterus coosae	redestye bass	11B	1240	1	85	6.7
Micropterus coosae	redestye bass	11B	1240	1	205	104
Micropterus coosae	redestye bass	11B	1240	1	98	8.6
Micropterus coosae	redestye bass	11B	1240	1	104	11.8
Micropterus coosae	redestye bass	11B	1240	1	94	9.6
Micropterus coosae	redestye bass	11B	1240	1	81	6.3
Micropterus coosae	redestye bass	11B	1240	1	61	4.5
Micropterus coosae	redestye bass	11B	1240	1	63	2.9
Micropterus coosae	redestye bass	11B	1240	1	50	1.7
Micropterus coosae	redestye bass	11B	1240	1	94	8.5
Micropterus coosae	redestye bass	11B	1240	1	65	3.7
Micropterus coosae	redestye bass	11B	1240	1	48	1.6
Nocomis leptocephalus	bluehead chub	11B	1240	37		134
Percina nigrofasciata	blackbanded darter	11B	1240	53		78.3