

The Canadian Field-Naturalist

SUPPLEMENTARY MATERIALS:

A baseline study of the fishes in the north-flowing section of the Rideau River-Canal system, Ontario, 1998–2000

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TABLE S3. Gear type and fishes collected at sites in the tributaries of the Rideau River, Ontario in 1999. A total of 2098 fishes were captured from three tributaries to the Rideau River: 1097 in the Jock River, 747 in Kemptville Creek (a tiny salamander, Mudpuppy [*Necturus maculosus*], was also collected in a minnow trap in Kemptville Creek, at Kemptville on 19 July), and 254 in Stevens Creek.

SITE KC 1 Kemptville Creek at the confluence with the Rideau River, sampled 21 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	1	26	2	3	32
Bluegill (<i>Lepomis macrochirus</i>)		16	23		39
Yellow Perch (<i>Perca flavescens</i>)	1		10	2	13
Common Shiner (<i>Luxilus cornutus</i>)					
Rock Bass (<i>Ambloplites rupestris</i>)	1	1	27	2	31
Black Crappie (<i>Pomoxis nigromaculatus</i>)					
Logperch (<i>Percina caprodes</i>)					
Banded Killifish (<i>Fundulus diaphanus</i>)	3		198	2	203
Largemouth Bass (<i>Micropterus nigricans</i>)	1	2			3
Bluntnose Minnow (<i>Pimephales notatus</i>)			15		15
Smallmouth Bass (<i>Micropterus dolomieu</i>)	9	1	3		13
Brook Silverside (<i>Labidesthes sicculus</i>)					
Blacknose Shiner (<i>Notropis heterolepis</i>)			106	1	107
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)				1	1
Tessellated Darter (<i>Etheostoma olmstedii</i>)					
Northern Pike (<i>Esox lucius</i>)					
Blackchin Shiner (<i>Miniellus heterodon</i>)			1		1
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)			1		1
Muskellunge (<i>Esox masquinongy</i>)					
Tadpole Madtom (<i>Noturus gyrinus</i>)					
Mimic Shiner (<i>Paranotropis volucellus</i>)					
Rosyface Shiner (<i>Notropis rubellus</i>)					
Central Mudminnow (<i>Umbra limi</i>)					
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish					
Totals	16	46	386	11	459

TABLE S3. *Continued.*
SITE KC 2 Kemptville Creek, midway between the town of Kemptville and the confluence with the Rideau River, sampled 20 July.

Species	Gear type				Total
	8 minnow traps	Seine	Electrofisher A	Electrofisher B	
Pumpkinseed (<i>Lepomis gibbosus</i>)		5		2	7
Bluegill (<i>Lepomis macrochirus</i>)	5	38		1	44
Yellow Perch (<i>Perca flavescens</i>)	2	2	2	2	8
Common Shiner (<i>Luxilus cornutus</i>)					
Rock Bass (<i>Ambloplites rupestris</i>)		1			1
Black Crappie (<i>Pomoxis nigromaculatus</i>)		2			2
Logperch (<i>Percina caprodes</i>)					
Banded Killifish (<i>Fundulus diaphanus</i>)		2			2
Largemouth Bass (<i>Micropterus nigricans</i>)	2	5		1	8
Bluntnose Minnow (<i>Pimephales notatus</i>)					
Smallmouth Bass (<i>Micropterus dolomieu</i>)	6		1		7
Brook Silverside (<i>Labidesthes sicculus</i>)					
Blacknose Shiner (<i>Notropis heterolepis</i>)					
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)					
Tessellated Darter (<i>Etheostoma olmstedii</i>)					
Northern Pike (<i>Esox lucius</i>)	1				1
Blackchin Shiner (<i>Miniellus heterodon</i>)		1			1
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)					
Muskellunge (<i>Esox masquinongy</i>)					
Tadpole Madtom (<i>Noturus gyrinus</i>)					
Mimic Shiner (<i>Paranotropis volucellus</i>)					
Rosyface Shiner (<i>Notropis rubellus</i>)					
Central Mudminnow (<i>Umbra limi</i>)			1		1
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish					
Totals	16	56	4	6	82

TABLE S3. Continued.
SITE KC 3 Kemptville Creek in the town of Kemptville, sampled 19 July.

Species	Gear type					Total
	8 minnow traps	Seine A	Seine B	Seine C	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)			8		7	15
Bluegill (<i>Lepomis macrochirus</i>)			20	53	2	75
Yellow Perch (<i>Perca flavescens</i>)	1	1		3		5
Common Shiner (<i>Luxilus cornutus</i>)			1			1
Rock Bass (<i>Ambloplites rupestris</i>)	1	1	1		1	4
Black Crappie (<i>Pomoxis nigromaculatus</i>)						
Logperch (<i>Percina caprodes</i>)			7		2	9
Banded Killifish (<i>Fundulus diaphanus</i>)				7		7
Largemouth Bass (<i>Micropterus nigricans</i>)		1	33	3	2	39
Bluntnose Minnow (<i>Pimephales notatus</i>)				2		2
Smallmouth Bass (<i>Micropterus dolomieu</i>)	2		5	3		10
Brook Silverside (<i>Labidesthes sicculus</i>)			9			9
Blacknose Shiner (<i>Notropis heterolepis</i>)			1			1
Spottail Shiner (<i>Hudsonius hudsonius</i>)						
Brown Bullhead (<i>Ameiurus nebulosus</i>)						
Tessellated Darter (<i>Etheostoma olmstedii</i>)						
Northern Pike (<i>Esox lucius</i>)						
Blackchin Shiner (<i>Miniellus heterodon</i>)						
Silver Redhorse (<i>Moxostoma anisurum</i>)			12			12
Fallfish (<i>Semotilus corporalis</i>)			7			7
White Sucker (<i>Catostomus commersonii</i>)						
Muskellunge (<i>Esox masquinongy</i>)						
Tadpole Madtom (<i>Noturus gyrinus</i>)					1	1
Mimic Shiner (<i>Paranotropis volucellus</i>)						
Rosyface Shiner (<i>Notropis rubellus</i>)				1		1
Central Mudminnow (<i>Umbra limi</i>)					7	7
Mudpuppy (<i>Necturus maculosus</i>)	1					1
Unknown sunfish					1	1
Totals	5	3	104	72	23	207

TABLE S3. *Continued.*
SITE JR 1 The Jock River at the confluence with the Rideau River, sampled 22 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	1				1
Bluegill (<i>Lepomis macrochirus</i>)					
Yellow Perch (<i>Perca flavescens</i>)					
Common Shiner (<i>Luxilus cornutus</i>)					
Rock Bass (<i>Ambloplites rupestris</i>)	6			10	16
Black Crappie (<i>Pomoxis nigromaculatus</i>)					
Logperch (<i>Percina caprodes</i>)				1	1
Banded Killifish (<i>Fundulus diaphanus</i>)					
Largemouth Bass (<i>Micropterus nigricans</i>)					
Bluntnose Minnow (<i>Pimephales notatus</i>)					
Smallmouth Bass (<i>Micropterus dolomieu</i>)	1	2		8	11
Brook Silverside (<i>Labidesthes sicculus</i>)			206		206
Blacknose Shiner (<i>Notropis heterolepis</i>)					
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)					
Tessellated Darter (<i>Etheostoma olmstedii</i>)					
Northern Pike (<i>Esox lucius</i>)					
Blackchin Shiner (<i>Miniellus heterodon</i>)					
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)					
Muskellunge (<i>Esox masquinongy</i>)				1	1
Tadpole Madtom (<i>Noturus gyrinus</i>)					
Mimic Shiner (<i>Paranotropis volucellus</i>)					
Rosyface Shiner (<i>Notropis rubellus</i>)					
Central Mudminnow (<i>Umbra limi</i>)					
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish					
Totals	8	2	206	20	236

TABLE S3. Continued.
SITE JR 2 Jock River at the bow of Jock River Park, sampled 27 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	272	27	25	14	338
Bluegill (<i>Lepomis macrochirus</i>)		59	4	3	66
Yellow Perch (<i>Perca flavescens</i>)					
Common Shiner (<i>Luxilus cornutus</i>)			9		9
Rock Bass (<i>Ambloplites rupestris</i>)	5	20	21	4	50
Black Crappie (<i>Pomoxis nigromaculatus</i>)		1	2		3
Logperch (<i>Percina caprodes</i>)	2	4	4		10
Banded Killifish (<i>Fundulus diaphanus</i>)		11	6	3	20
Largemouth Bass (<i>Micropterus nigricans</i>)					
Bluntnose Minnow (<i>Pimephales notatus</i>)		19	37	8	64
Smallmouth Bass (<i>Micropterus dolomieu</i>)	2				2
Brook Silverside (<i>Labidesthes sicculus</i>)					
Blacknose Shiner (<i>Notropis heterolepis</i>)					
Spottail Shiner (<i>Hudsonius hudsonius</i>)		17	4		21
Brown Bullhead (<i>Ameiurus nebulosus</i>)					
Tessellated Darter (<i>Etheostoma olmstedii</i>)		5	1		6
Northern Pike (<i>Esox lucius</i>)		1			1
Blackchin Shiner (<i>Miniellus heterodon</i>)		1			1
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)					
Muskellunge (<i>Esox masquinongy</i>)		1			1
Tadpole Madtom (<i>Noturus gyrinus</i>)					
Mimic Shiner (<i>Paranotropis volucellus</i>)		1	2	1	4
Rosyface Shiner (<i>Notropis rubellus</i>)			4	3	7
Central Mudminnow (<i>Umbra limi</i>)					
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish					
Totals	281	167	119	36	603

TABLE S3. *Continued.*
SITE JR 3 The Jock River at the town of Richmond, sampled 27 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	86	33	5	4	128
Bluegill (<i>Lepomis macrochirus</i>)	1				1
Yellow Perch (<i>Perca flavescens</i>)					
Common Shiner (<i>Luxilus cornutus</i>)			41		41
Rock Bass (<i>Ambloplites rupestris</i>)	15	15	10	13	53
Black Crappie (<i>Pomoxis nigromaculatus</i>)					
Logperch (<i>Percina caprodes</i>)	1			16	17
Banded Killifish (<i>Fundulus diaphanus</i>)	1	1			2
Largemouth Bass (<i>Micropterus nigricans</i>)					
Bluntnose Minnow (<i>Pimephales notatus</i>)		8	2		10
Smallmouth Bass (<i>Micropterus dolomieu</i>)					
Brook Silverside (<i>Labidesthes sicculus</i>)					
Blacknose Shiner (<i>Notropis heterolepis</i>)					
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)					
Tessellated Darter (<i>Etheostoma olmstedii</i>)				1	1
Northern Pike (<i>Esox lucius</i>)					
Blackchin Shiner (<i>Miniellus heterodon</i>)					
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)					
Muskellunge (<i>Esox masquinongy</i>)					
Tadpole Madtom (<i>Noturus gyrinus</i>)					
Mimic Shiner (<i>Paranotropis volucellus</i>)			2		2
Rosyface Shiner (<i>Notropis rubellus</i>)			2		2
Central Mudminnow (<i>Umbra limi</i>)					
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish	1				1
Totals	105	57	62	34	258

TABLE S3. Continued.
SITE SC 1 Stevens Creek at the confluence with the Rideau River, sampled 28 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	3	3	8	4	18
Bluegill (<i>Lepomis macrochirus</i>)	1	11	2		14
Yellow Perch (<i>Perca flavescens</i>)	8	2	1		11
Common Shiner (<i>Luxilus cornutus</i>)					
Rock Bass (<i>Ambloplites rupestris</i>)	1				1
Black Crappie (<i>Pomoxis nigromaculatus</i>)					
Logperch (<i>Percina caprodes</i>)					
Banded Killifish (<i>Fundulus diaphanus</i>)			2		2
Largemouth Bass (<i>Micropterus nigricans</i>)					
Bluntnose Minnow (<i>Pimephales notatus</i>)					
Smallmouth Bass (<i>Micropterus dolomieu</i>)		1	1		2
Brook Silverside (<i>Labidesthes sicculus</i>)			3		3
Blacknose Shiner (<i>Notropis heterolepis</i>)					
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)					
Tessellated Darter (<i>Etheostoma olmstedii</i>)					
Northern Pike (<i>Esox lucius</i>)					
Blackchin Shiner (<i>Miniellus heterodon</i>)					
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)					
Muskellunge (<i>Esox masquinongy</i>)					
Tadpole Madtom (<i>Noturus gyrinus</i>)					
Mimic Shiner (<i>Paranotropis volucellus</i>)					
Rosyface Shiner (<i>Notropis rubellus</i>)					
Central Mudminnow (<i>Umbra limi</i>)					
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish	5		3		8
Totals	18	17	20	4	59

TABLE S3. *Continued.*
SITE SC 2 Stevens Creek at the village of North Gower, sampled 30 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	10	1	5		16
Bluegill (<i>Lepomis macrochirus</i>)					
Yellow Perch (<i>Perca flavescens</i>)					
Common Shiner (<i>Luxilus cornutus</i>)	1	2		1	4
Rock Bass (<i>Ambloplites rupestris</i>)	2				2
Black Crappie (<i>Pomoxis nigromaculatus</i>)					
Logperch (<i>Percina caprodes</i>)					
Banded Killifish (<i>Fundulus diaphanus</i>)				1	1
Largemouth Bass (<i>Micropterus nigricans</i>)					
Bluntnose Minnow (<i>Pimephales notatus</i>)		91		2	93
Smallmouth Bass (<i>Micropterus dolomieu</i>)					
Brook Silverside (<i>Labidesthes sicculus</i>)					
Blacknose Shiner (<i>Notropis heterolepis</i>)					
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)				2	2
Tessellated Darter (<i>Etheostoma olmstedii</i>)		1		4	5
Northern Pike (<i>Esox lucius</i>)	1				1
Blackchin Shiner (<i>Miniellus heterodon</i>)					
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)					
Muskellunge (<i>Esox masquinongy</i>)					
Tadpole Madtom (<i>Noturus gyrinus</i>)	3				3
Mimic Shiner (<i>Paranotropis volucellus</i>)					
Rosyface Shiner (<i>Notropis rubellus</i>)					
Central Mudminnow (<i>Umbra limi</i>)		2			2
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish				1	1
Totals	17	97	5	11	130

TABLE S3. Continued.
SITE SC 3 Stevens Creek at Highway 4, sampled 30 July.

Species	Gear type				Total
	8 minnow traps	Seine A	Seine B	Electrofisher	
Pumpkinseed (<i>Lepomis gibbosus</i>)	22			6	28
Bluegill (<i>Lepomis macrochirus</i>)					
Yellow Perch (<i>Perca flavescens</i>)	5				5
Common Shiner (<i>Luxilus cornutus</i>)				1	1
Rock Bass (<i>Ambloplites rupestris</i>)	2				2
Black Crappie (<i>Pomoxis nigromaculatus</i>)				1	1
Logperch (<i>Percina caprodes</i>)					
Banded Killifish (<i>Fundulus diaphanus</i>)				5	5
Largemouth Bass (<i>Micropterus nigricans</i>)					
Bluntnose Minnow (<i>Pimephales notatus</i>)				10	10
Smallmouth Bass (<i>Micropterus dolomieu</i>)					
Brook Silverside (<i>Labidesthes sicculus</i>)					
Blacknose Shiner (<i>Notropis heterolepis</i>)				2	2
Spottail Shiner (<i>Hudsonius hudsonius</i>)					
Brown Bullhead (<i>Ameiurus nebulosus</i>)				1	1
Tessellated Darter (<i>Etheostoma olmstedii</i>)			1	2	3
Northern Pike (<i>Esox lucius</i>)					
Blackchin Shiner (<i>Miniellus heterodon</i>)					
Silver Redhorse (<i>Moxostoma anisurum</i>)					
Fallfish (<i>Semotilus corporalis</i>)					
White Sucker (<i>Catostomus commersonii</i>)				1	1
Muskellunge (<i>Esox masquinongy</i>)					
Tadpole Madtom (<i>Noturus gyrinus</i>)				1	1
Mimic Shiner (<i>Paranotropis volucellus</i>)					
Rosyface Shiner (<i>Notropis rubellus</i>)				1	1
Central Mudminnow (<i>Umbra limi</i>)				3	3
Mudpuppy (<i>Necturus maculosus</i>)					
Unknown sunfish			1		1
Totals	29	0	2	34	65