

COLLECTION REPORT 2002
DOUG RIDER

Comparative use of modified and natural habitats of the upper Yellowstone River by juvenile salmonids.

- 1) Species- Brown trout (LL), rainbow trout (RBT), mountain whitefish (MW), and Yellowstone cutthroat trout (YCT) will be collected during the field season of 2002.
- 2) Number- 1859 fish were collected during the 2001 field season. I anticipate a similar number in 2002. The species breakdown is LL- 623 fish, RBT- 1070 fish, MW- 89 fish, and YCT- 77 fish. I also anticipate similar totals.
- 3) Plan on keeping up to 20 small fish (< 50mm) to be sent in for identification.
- 4) I will be using a Coffelt VVP-15 with a hand-held probe having a circular anode (25cm). Straight DC will be used during electrofishing. During side-channel sampling, a Smith-Root (15-C POW) backpack electrofisher will be used.
- 5) Anticipated sampling times- spring (March-May, Side-channel (late June to Early July), summer (late July-Sept.) and fall (Oct.-Nov.).
- 6) Yellowstone River from the Mallard's Rest boat access site to Mayor's Landing boat access site.

Name: James N. De Rito

Position: Graduate Research Assistant

Research Project: The Spatial and Temporal Spawning Distributions of Yellowstone Cutthroat and Rainbow Trout in the Yellowstone River

Collection Methods: Fish are collected from the Yellowstone River by electrofishing from a jet boat equipped with a double boom electrode setup. Montana Fish, Wildlife, and Parks (FWP) Department personnel (Joel Tohtz, Gary Senger, et al.) collect the fish that will have radio transmitters implanted. Fish are collected from FWP designated fish monitoring sites on the Yellowstone River. All fish are returned to the River. There were eight Yellowstone cutthroat reported in 2001 that did not have a radio-tag implanted if the fish was not of the gender needed for that site. The fish that were not tagged had abdominal incisions closed with surgical staples and then returned to the River.

2001 Collection Report Data:

Location: Yellowstone River at Corwin Springs Date: April 4

Species	Number
Yellowstone Cutthroat (YCT)	20
Rainbow (RB)	5
Hybrid (YCT x RB)	5

Location: Yellowstone River at Mill Creek Date: April 5

Species	Number
Yellowstone Cutthroat (YCT)	18
Rainbow (RB)	5
Hybrid (YCT x RB)	5

2002 Collection Plan:

Location: Yellowstone River at Corwin Springs Time period: February-April

Species	Number
Yellowstone Cutthroat (YCT)	13
Rainbow (RB)	4
Hybrid (YCT x RB)	1

Location: Yellowstone River at Mill Creek Time period: February-April

Species	Number
Yellowstone Cutthroat (YCT)	10
Rainbow (RB)	5
Hybrid (YCT x RB)	2

Location: Yellowstone River at Livingston Time period: February-April

Species	Number
Yellowstone Cutthroat (YCT)	15
Rainbow (RB)	5
Hybrid (YCT x RB)	5

Location: Yellowstone River at Springdale Time period: February-April

Species	Number
Yellowstone Cutthroat (YCT)	15
Rainbow (RB)	5
Hybrid (YCT x RB)	5

In summary, a total of 85 fish will have radio-transmitters implanted in 2002. It will take between 1-2 days per site to collect the desired number of fish specified.

Report of Fish Collections
Made in Montana During
2001 by W. Gould

None

Movements and Exploitation of Sauger in the Lower Yellowstone River

Collector's Permit Report

Matt Jaeger

2001 Summary

30 sauger were collected from the Yellowstone River between Miles City and Fallon Bridge by a combination of hook and line sampling and electrofishing during the month of April. Upon collection, each sauger was surgically equipped with a radio transmitter and released. No fish were kept. Additionally, about 400 sauger were collected by various Fish, Wildlife, and Parks personnel in the course of routine sampling throughout the Yellowstone River during the months of April-June and were equipped with two Floy tags and released as part of this study.

2002 Anticipated Collections

30 sauger will be collected during the month of April in the Yellowstone River between the Cartersville and Intake Diversions by a combination of electrofishing and hook and line sampling. Upon collection fish will be surgically equipped with a radio transmitter and released. No fish will be kept. We anticipate that an indeterminate number of sauger will be collected by Fish, Wildlife, and Parks personnel in the Yellowstone River and equipped with Floy Tags and released as a part of this study.

Evaluation of the biological integrity of prairie streams in the Missouri and Yellowstone River basins, Montana. Sites sampled during 1999-2001 by Robert Bramblett.

Site	Date	Site number	Random, reference, test, or temporal	HUC	HUC number
S. Fork Big Coulee Creek (V1)	9/10/99	072	Random, temporal	Upper Musselshell	10040201
Big Coulee Creek (V1)	9/12/99	048	Random, temporal	Upper Musselshell	10040201
Fish Creek (V1)	9/13/99	118	Random, temporal	Upper Musselshell	10040201
Sage Creek (V1)	9/14/99	129	Random, temporal	Judith	10040103
Buffalo Creek	9/21/99	135	Random	Upper Yellowstone	10070007
Pumpkin Creek (V1)	9/22/99	165	Random, temporal	Lower Tongue	10090102
Beaver Creek	9/24/99	041	Random	Beaver	10110204
S. Fork Big Coulee Creek (V2)	7/5/00	072	Random, temporal	Upper Musselshell	10040201
Fish Creek (V3)	7/11/00	118	Random, temporal	Upper Musselshell	10040201
Big Coulee Creek (V2)	7/12/00	048	Random, temporal	Upper Musselshell	10040201
Sage Creek (V2)	7/13/00	129	Random, temporal	Judith	10040103
Arrow Creek	7/15/00	094	Random	Arrow	10040102
Pumpkin Creek (V2)	7/17/00	165	Random, temporal	Lower Tongue	10090102
Otter Creek	7/18/00	200	Random	Lower Tongue	10090102
Wolf Creek	7/25/00	R01	Reference	Prairie Elk-Wolf	10060001
West Fork Poplar River	7/26/00	R02	Reference	West Fork Poplar	10060004
Smoke Creek	7/27/00	R03	Reference	Big Muddy	10060006
Big Muddy Creek	7/28/00	022	Random, test	Big Muddy	10060006
Big Muddy Creek (V1)	7/30/00	017	Random, temporal	Big Muddy	10060006
Poplar River (V1)	7/31/00	137	Random, temporal	Poplar	10060003
Rock Creek (V1)	8/1/00	162	Random, temporal	Rock	10050015
O'Fallon Creek (V1)	8/8/00	106	Random, temporal	O'Fallon	10100005
Glendive Creek	8/9/00	156	Random	Lower Yellowstone	10100004
Little Beaver Creek	8/10/00	R04	Reference	Upper Little Missouri	10110201
Boxelder Creek	8/11/00	R05	Reference	Boxelder	10110202
Little Powder River	8/12/00	160	Random	Little Powder	10090208
Powder River	8/13/00	130	Random	Lower Powder	10090209
Rosebud Creek	8/14/00	R06	Reference	Rosebud	10100003
Big Warm Creek	8/22/00	026	Random	Beaver	10050014
Peoples Creek	8/23/00	057	Random	Peoples	10050009
Beaver Creek	8/24/00	T01	Test	Beaver	10050014
Whitewater Creek	8/25/00	167	Random	Whitewater	10050011
Redwater River	8/26/00	091	Random	Redwater	10060002
Big Muddy Creek	8/28/00	092	Random	Big Muddy	10060006
Charlie Creek (V1)	8/29/00	161	Random, temporal	Charlie-Little Muddy	10060005
Big Sandy Creek	9/6/00	T02	Test	Big Sandy	10050005
Sage Creek	9/7/00	T03	Test	Sage	10050006
Willow Creek	9/8/00	T04	Test	Willow	10030204
Pondera Coulee	9/9/00	T05	Test	Marias	10030203
Teton River	9/10/00	T06	Test	Teton	10030205
Teton River	9/11/00	168	Random	Teton	10030205
Sage Creek (V3)	9/12/00	129	Random, temporal	Judith	10040103
Pumpkin Creek (V3)	9/19/00	165	Random, temporal	Lower Tongue	10090102

Musselshell River	9/21/00	103	Random	Lower Musselshell	10040202
S. Fork Big Coulee Creek (V3)	9/25/00	072	Random, temporal	Upper Musselshell	10040201
Big Coulee Creek (V3)	9/26/00	048	Random, temporal	Upper Musselshell	10040201
Fish Creek (V2)	9/27/00	118	Random, temporal	Upper Musselshell	10040201
O'Fallon Creek (V2)	7/3/01	106	Random, temporal	O'Fallon	10100005
Charlie Creek (V2)	7/5/01	161	Random, temporal	Charlie-Little Muddy	10060005
Big Muddy Creek (V2)	7/6/01	017	Random, temporal	Big Muddy	10060006
Poplar River (V2)	7/7/01	137	Random, temporal	Poplar	10060003
Cottonwood Creek	7/8/01	021	Random	West Fork Poplar	10060004
Rock Creek (V2)	7/9/01	162	Random, temporal	Rock	10050015
Musselshell River	7/14/01	019	Random	Lower Musselshell	10040202
Little Porcupine Creek	7/15/01	010	Random	Lower Yellowstone-Sunday	10100001
East Fork Armells Creek	7/16/01	170	Random	Lower Yellowstone-Sunday	10100001
Beaver Creek	7/17/01	005	Random	Lower Tongue	10090102
Mizpah Creek	7/18/01	145	Random	Mizpah	10090210
HS Creek	7/31/01	056	Random	Upper Little Missouri	10110201
Spring Creek	8/1/01	186	Random	O'Fallon	10100005
Cabin Creek	8/2/01	S01	Random supplemental	Lower Yellowstone	10100004
Pennel Creek	8/3/01	S02	Random supplemental	O'Fallon	10100005
Sandstone Creek	8/4/01	S02	Random supplemental	O'Fallon	10100005
Little Missouri River	8/5/01	120	Random	Upper Little Missouri	10110201
Tie Creek	8/6/01	045	Random	Upper Little Missouri	10110201
Battle Creek	8/14/01	152	Random	Battle	10050008
Larb Creek	8/15/01	121	Random	Beaver	10050014
Frenchman Creek	8/16/01	087	Random	Frenchman	10050013
Willow Creek	8/17/01	S03	Random supplemental	Rock	10050015
Willow Creek	8/18/01	136	Random	Lower Milk	10050012
Box Elder Creek	8/19/01	099	Random	Box Elder	10040204
Flatwillow Creek	8/20/01	S04	Random supplemental	Flatwillow	10040203
Hanging Woman Creek	8/29/01	S05	Random supplemental	Lower Tongue	10090102
Armells Creek	8/30/01	S06	Random supplemental	Lower Yellowstone-Sunday	10100001
Sunday Creek	8/31/01	051	Random	Lower Yellowstone-Sunday	10100001
Sevenmile Creek	9/1/01	151	Random	Lower Yellowstone	10100004
Careless Creek	9/2/01	183	Random	Upper Musselshell	10040201
Big Muddy Creek (V3)	9/8/01	017	Random, temporal	Big Muddy	10060006
Wolf Creek	9/9/01	S07	Random supplemental	Big Muddy	10060006
Butte Creek	9/10/01	S08	Random supplemental	Poplar	10060003
Poplar River (V3)	9/11/01	137	Random, temporal	Poplar	10060003
Little Porcupine Creek	9/12/01	S09	Random supplemental	Prairie Elk-Wolf	10060001
Porcupine Creek	9/13/01	S10	Random supplemental	Porcupine	10050016
Rock Creek (V3)	9/14/01	162	Random, temporal	Rock	10050015
Bennie Peer Creek	9/15/01	S11	Random supplemental	Lower Yellowstone	10100004
Charlie Creek (V3)	9/16/01	161	Random, temporal	Charlie-Little Muddy	10060005
Ofallon Creek (V3)	9/17/01	106	Random, temporal	O'Fallon	10100005

Table 3. Summary of fish collections in Montana prairie streams 1999-2001.

Site (visit number) Site number	Date	Species	Number captured
Armells Creek S06	8/30/01	black bullhead	1
		common carp	41
		fathead minnow	19
		green sunfish	72
		lake chub	4
		plains killifish	27
		sand shiner	12
		white sucker	7
Armells Creek total			183
Arrow Creek 094	7/15/00	flathead chub	36
		lake chub	4
		longnose dace	35
		plains minnow	19
		sand shiner	9
Arrow Creek total			103
Battle Creek 152	8/14/01	black bullhead	18
		common carp	234
		fathead minnow	21
		sauger	1
		white sucker	35
		yellow perch	5
Battle Creek total			314
Beaver Creek 005	7/17/01	brassy minnow	14
		white sucker	1
Beaver Creek total			15
Beaver Creek T01	8/24/00	bigmouth buffalo	27
		black bullhead	1,556
		common carp	58
		fathead minnow	60
		northern pike	20
		pumpkinseed	17
		river carpsucker	41
		spottail shiner	47
		walleye	1
		white sucker	10
Beaver Creek total			1,837

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Beaver Creek	9/24/99	fathead minnow	117
041		green sunfish	13
		Iowa darter	1
		northern pike	12
		shorthead redhorse	3
		walleye	1
		white sucker	8
Beaver Creek total			155
Bennie Peer Creek	9/15/01	black bullhead	3
S11		brassy minnow	10
		common carp	12
		creek chub	69
		fathead minnow	6
		green sunfish	1
		sand shiner	6
		white sucker	13
Bennie Peer Creek total			120
Big Coulee Creek (V1)	9/12/99	brassy minnow	1
048		fathead minnow	9
		lake chub	68
		longnose dace	72
		white sucker	1
Big Coulee Creek (V1) total			151
Big Coulee Creek (V2)	7/12/00	brassy minnow	3
048		fathead minnow	5
		lake chub	32
		longnose dace	189
		white sucker	2
Big Coulee Creek (V2) total			231
Big Coulee Creek (V3)	9/26/00	fathead minnow	5
048		lake chub	9
		longnose dace	3
		white sucker	4
Big Coulee Creek (V3) total			21

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Big Muddy Creek (V1) 017	7/30/00	brassy minnow	4
		brook stickleback	2
		common carp	4
		fathead minnow	19
		lake chub	111
		white sucker	24
Big Muddy Creek (V1) total			164
Big Muddy Creek (V2) 017	7/6/01	brassy minnow	17
		brook stickleback	21
		fathead minnow	247
		lake chub	82
		northern pike	2
		plains minnow	1
		white sucker	1,181
Big Muddy Creek (V2) total			1,551
Big Muddy Creek (V3) 017	9/8/01	brook stickleback	3
		fathead minnow	16
		Iowa darter	1
		lake chub	240
		white sucker	46
Big Muddy Creek (V3) total			306
Big Muddy Creek 022	7/28/00	brassy minnow	1
		brook stickleback	11
		fathead minnow	42
		Iowa darter	1
		lake chub	145
		longnose dace	2
		pearl dace	2
		white sucker	56
Big Muddy Creek total			260
Big Muddy Creek 092	8/28/00	black bullhead	255
		brassy minnow	1
		brook stickleback	121
		fathead minnow	622
		Iowa darter	34
		lake chub	2
		northern pike	2

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
		pearl dace	1
		white sucker	250
Big Muddy Creek total			1,288
Big Sandy Creek	9/6/00	brassy minnow	3
T02		fathead minnow	1
		white sucker	5
Big Sandy Creek total			9
Big Warm Creek	8/22/00	Iowa darter	1
026		white sucker	1
Big Warm Creek total			2
Box Elder Creek	8/19/01	common carp	36
099		fathead minnow	98
		green sunfish	10
		sand shiner	214
Box Elder Creek total			358
Boxelder Creek	8/11/00	brassy minnow	13
R05		common carp	43
		creek chub	8
		fathead minnow	69
		flathead chub	20
		goldeye	5
		green sunfish	10
		longnose dace	4
		northern pike	13
		river carpsucker	1
		sand shiner	324
		sauger	1
		shorthead redhorse	4
		stonecat	6
		white sucker	125
Boxelder Creek total			646
Buffalo Creek	9/21/99	fathead minnow	1
135		plains killifish	33
Buffalo Creek total			34

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Butte Creek	9/10/01	common carp	15
S08		fathead minnow	2
		northern pike	18
		white sucker	7
Butte Creek total			42
Cabin Creek	8/2/01	fathead minnow	23
S01		lake chub	13
		longnose dace	3
		plains killifish	1
		plains minnow	4
Cabin Creek total			44
Careless Creek	9/2/01	brassy minnow	2
183		common carp	18
		fathead minnow	46
		flathead chub	28
		lake chub	43
		longnose dace	188
		longnose sucker	4
		mountain sucker	22
		shorthead redhorse	6
		white sucker	67
Careless Creek total			424
Charlie Creek (V1)	8/29/00	black bullhead	1
161		brook stickleback	44
		common carp	94
		fathead minnow	657
		Iowa darter	1
		white sucker	27
Charlie Creek (V1) total			824
Charlie Creek (V2)	7/5/01	brook stickleback	239
161		fathead minnow	397
		Iowa darter	1
		white sucker	107
Charlie Creek (V2) total			744

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Charlie Creek (V3) 161	9/16/01	brook stickleback	131
		fathead minnow	1,211
		white sucker	149
Charlie Creek (V3) total			1,491
Cottonwood Creek 021	7/8/01	brassy minnow	8
		brook stickleback	55
		fathead minnow	476
		lake chub	2
		white sucker	18
Cottonwood Creek total			559
East Fork Armells Creek 170	7/16/01	plains killifish	2
East Fork Armells Creek total			2
Fish Creek (V1) 118	9/13/99	fathead minnow	3
		flathead chub	55
		lake chub	20
		longnose dace	122
		longnose sucker	2
		mountain sucker	1
		shorthead redhorse	7
		stonecat	6
		white sucker	241
Fish Creek (V1) total			457
Fish Creek (V2) 118	7/11/00	flathead chub	3
		lake chub	4
		longnose dace	75
		longnose sucker	2
		shorthead redhorse	1
		stonecat	2
		white sucker	59
Fish Creek (V2) total			146
Fish Creek (V3) 118	9/27/00	lake chub	2
		longnose dace	26
		white sucker	59
Fish Creek (V3) total			87

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Flatwillow Creek	8/20/01	fathead minnow	112
S04		lake chub	123
		longnose dace	38
		mountain sucker	3
		white sucker	51
Flatwillow Creek total			327
Frenchman Creek	8/16/01	common carp	35
087		fathead minnow	1,057
		lake chub	79
		longnose dace	3
		plains minnow	3
		white sucker	79
Frenchman Creek total			1,256
Glendive Creek	8/9/00	flathead chub	365
156		plains minnow	35
		river carpsucker	9
		sand shiner	1
Glendive Creek total			410
Hanging Woman Creek	8/29/01	black bullhead	8
S05		common carp	31
		fathead minnow	71
		green sunfish	240
		white sucker	70
Hanging Woman Creek total			420
HS Creek	7/31/01	black bullhead	7
056		brassy minnow	8
		brook stickleback	2
		creek chub	6
HS Creek total			23
Larb Creek	8/15/01	black bullhead	107
121		channel catfish	1
		common carp	17
		fathead minnow	3
		lake chub	5
		northern pike	1
		plains minnow	2
		spottail shiner	3

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
		white crappie	350
		white sucker	3
		yellow perch	2
Larb Creek total			494
Little Beaver Creek R04	8/10/00	black bullhead	8
		green sunfish	3
		northern pike	9
		shorthead redhorse	3
		stonecat	5
		white sucker	2
Little Beaver Creek total			30
Little Missouri River 120	8/5/01	channel catfish	28
		common carp	4
		fathead minnow	6
		goldeye	2
		green sunfish	7
		plains minnow	3
		river carpsucker	3
		sand shiner	30
		shorthead redhorse	9
		stonecat	5
		white sucker	5
Little Missouri River total			102
Little Porcupine Creek S09	9/12/01	black bullhead	1
		brassy minnow	1,185
		brook stickleback	12
		fathead minnow	699
		Iowa darter	7
		lake chub	85
		longnose dace	19
		northern redbelly dace	611
		white sucker	227
Little Porcupine Creek total			2,846
Little Porcupine Creek 010	7/15/01	bigmouth buffalo	1
		black bullhead	3
		channel catfish	8
		common carp	45

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
		emerald shiner	45
		fathead minnow	126
		flathead chub	16
		goldeye	1
		green sunfish	1
		longnose sucker	1
		plains killifish	1
		plains minnow	73
		river carpsucker	6
		sand shiner	102
		shorthead redhorse	24
		western silvery minnow	214
		white sucker	20
Little Porcupine Creek total			687
Little Powder River	8/12/00	channel catfish	8
160		common carp	34
		creek chub	1
		fathead minnow	93
		flathead chub	25
		green sunfish	3
		longnose dace	10
		plains minnow	1
		river carpsucker	1
		sand shiner	231
		shorthead redhorse	8
		stonecat	21
		white sucker	17
Little Powder River total			453
Mizpah Creek	7/18/01	black bullhead	7
145		channel catfish	1
		common carp	30
		fathead minnow	15
		plains minnow	3
Mizpah Creek total			56

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Musselshell River 019	7/14/01	channel catfish	2
		common carp	27
		fathead minnow	42
		flathead chub	40
		longnose dace	107
		plains minnow	1
		sand shiner	397
		shorthead redhorse	59
		stonecat	1
		white sucker	71
Musselshell River total			747
Musselshell River 103	9/21/00	common carp	6
		flathead chub	58
		longnose dace	1
		longnose sucker	6
		plains minnow	4
		sand shiner	80
		shorthead redhorse	12
		smallmouth bass	1
		white sucker	32
Musselshell River total			200
Ofallon Creek (V1) 106	8/8/00	brassy minnow	12
		channel catfish	1
		creek chub	22
		fathead minnow	64
		flathead chub	3
		green sunfish	2
		longnose dace	18
		plains killifish	7
		plains minnow	27
		sand shiner	129
		shorthead redhorse	1
		stonecat	1
		western silvery minnow	7
		white sucker	163
Ofallon Creek (V1) total			457

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Ofallon Creek (V2) 106	7/3/01	channel catfish	2
		creek chub	11
		fathead minnow	9
		flathead chub	1
		green sunfish	6
		longnose dace	2
		plains killifish	2
		river carpsucker	1
		sand shiner	28
		shorthead redhorse	7
		stonecat	1
		white sucker	35
Ofallon Creek (V2) total			105
Ofallon Creek (V3) 106	9/17/01	brassy minnow	1
		channel catfish	39
		creek chub	33
		fathead minnow	93
		flathead chub	19
		green sunfish	7
		longnose dace	20
		longnose sucker	1
		plains killifish	6
		plains minnow	4
		river carpsucker	1
		sand shiner	134
		shorthead redhorse	11
		stonecat	13
		western silvery minnow	1
		white sucker	67
Ofallon Creek (V3) total			450
Otter Creek 200	7/18/00	black bullhead	9
		common carp	47
		green sunfish	57
		lake chub	1
		plains minnow	2
		pumpkinseed	8
		western silvery minnow	4

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
		white sucker	1
Otter Creek total			129
Pennel Creek S02	8/3/01	black bullhead	55
		brassy minnow	40
		creek chub	49
		fathead minnow	53
		green sunfish	5
		white sucker	21
Pennel Creek total			223
Peoples Creek 057	8/23/00	black bullhead	3
		northern pike	2
Peoples Creek total			5
Pondera Coulee T05	9/9/00	brassy minnow	20
		brook stickleback	75
		common carp	1
		fathead minnow	53
		lake chub	13
		longnose dace	33
		white sucker	14
Pondera Coulee total			209
Poplar River (V1) 137	7/31/00	common carp	2
		fathead minnow	23
		Iowa darter	1
		longnose dace	14
		northern pike	16
		shorthead redhorse	7
		walleye	2
		white sucker	21
Poplar River (V1) total			86
Poplar River (V2) 137	7/7/01	common carp	4
		fathead minnow	18
		longnose dace	15
		northern pike	15
		shorthead redhorse	3
		walleye	8
		white sucker	1,471
Poplar River (V2) total			1,534

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Poplar River (V3) 137	9/11/01	common carp	4
		fathead minnow	134
		longnose dace	18
		northern pike	23
		shorthead redhorse	1
		spottail shiner	3
		walleye	2
		white sucker	50
Poplar River (V3) total			235
Porcupine Creek S10	9/13/01	black bullhead	12
		fathead minnow	6
		Iowa darter	2
		northern pike	11
		white sucker	13
Porcupine Creek total			44
Powder River 130	8/13/00	channel catfish	234
		flathead chub	367
		longnose dace	7
		plains minnow	9
		river carpsucker	113
		sand shiner	65
		shorthead redhorse	25
		sturgeon chub	22
		western silvery minnow	170
Powder River total			1,012
Pumpkin Creek (V1) 165	9/22/99	black bullhead	16
		channel catfish	2
		common carp	9
		creek chub	7
		fathead minnow	26
		green sunfish	31
		plains minnow	1
		sand shiner	9
		white sucker	2
Pumpkin Creek (V1) total			103

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Pumpkin Creek (V2) 165	7/17/00	black bullhead	9
		common carp	6
		fathead minnow	121
		green sunfish	7
		plains minnow	2
		sand shiner	17
		western silvery minnow	3
		white sucker	6
Pumpkin Creek (V2) total			171
Pumpkin Creek (V3) 165	9/19/00	black bullhead	39
		common carp	41
		creek chub	1
		fathead minnow	188
		green sunfish	39
		plains minnow	8
		sand shiner	1
		western silvery minnow	1
Pumpkin Creek (V3) total			318
Redwater River 091	8/26/00	channel catfish	3
		common carp	25
		emerald shiner	50
		fathead minnow	132
		green sunfish	28
		Iowa darter	1
		northern pike	4
		sand shiner	7
		shorthead redhorse	7
		walleye	1
		white sucker	180
Redwater River total			438
Rock Creek (V1) 162	8/1/00	black bullhead	6
		brassy minnow	4
		brook stickleback	1
		fathead minnow	49
		Iowa darter	1
		lake chub	167
		longnose dace	7

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
		plains minnow	23
		shorthead redhorse	1
		white sucker	208
Rock Creek (V1) total			467
Rock Creek (V2)	7/9/01	black bullhead	3
162		brassy minnow	6
		fathead minnow	49
		Iowa darter	1
		lake chub	201
		longnose dace	54
		plains minnow	198
		stonecat	1
		white sucker	111
Rock Creek (V2) total			624
Rock Creek (V3)	9/14/01	black bullhead	12
162		brassy minnow	1
		common carp	1
		fathead minnow	180
		lake chub	303
		longnose dace	56
		plains minnow	92
		white sucker	293
Rock Creek (V3) total			938
Rosebud Creek	8/14/00	common carp	1
R06		northern pike	5
		shorthead redhorse	26
		stonecat	8
		white sucker	2
Rosebud Creek total			42
S. Fork Big Coulee Creek (V1)	9/10/99	fathead minnow	18
072		hybrid dace	6
		lake chub	35
		longnose dace	84
		mountain sucker	10
		northern redbelly dace	19
		white sucker	46
S. Fork Big Coulee Creek (V1) total			218

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
S. Fork Big Coulee Creek (V2) 072	7/5/00	fathead minnow	26
		lake chub	45
		longnose dace	81
		mountain sucker	9
		northern redbelly dace	33
S. Fork Big Coulee Creek (V2) total			194
S. Fork Big Coulee Creek (V3) 072	9/25/00	no fish	0
S. Fork Big Coulee Creek (V3) total			0
Sage Creek (V1) 129	9/14/99	brassy minnow	5
		fathead minnow	2
		lake chub	120
		longnose dace	186
		white sucker	75
Sage Creek (V1) total			388
Sage Creek (V2) 129	7/13/00	brassy minnow	1
		fathead minnow	2
		lake chub	64
		longnose dace	50
		Phoxinus spp.	2
Sage Creek (V2) total			119
Sage Creek (V3) 129	9/12/00	no fish	0
Sage Creek (V3) total			0
Sage Creek T03	9/7/00	no fish	0
Sage Creek total			0
Sandstone Creek S02	8/4/01	black bullhead	4
		brassy minnow	12
		channel catfish	5
		common carp	16
		creek chub	3
		fathead minnow	21
		green sunfish	1
		sand shiner	1
		shorthead redhorse	1
		white sucker	14

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
		yellow perch	6
Sandstone Creek total			84
Sevenmile Creek 151	9/1/01	black bullhead	7
		channel catfish	37
		creek chub	23
		emerald shiner	14
		fathead minnow	28
		flathead chub	48
		longnose dace	26
		longnose sucker	1
		plains killifish	1
		plains minnow	7
		river carpsucker	11
		sand shiner	121
		shorthead redhorse	4
		stonecat	3
		western silvery minnow	1
		white sucker	4
Sevenmile Creek total			336
Smoke Creek R03	7/27/00	northern pike	14
		white sucker	2
Smoke Creek total			16
Spring Creek 186	8/1/01	black bullhead	47
		brassy minnow	4
		common carp	2
		creek chub	5
		fathead minnow	6
		green sunfish	4
		white sucker	4
Spring Creek total			72
Sunday Creek 051	8/31/01	channel catfish	1
		fathead minnow	2
		flathead chub	96
		longnose dace	1
		plains minnow	76
		river carpsucker	20
Sunday Creek total			196

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Teton River 168	9/11/00	flathead chub	520
		longnose dace	5
		longnose sucker	8
		mountain sucker	25
		plains minnow	16
		river carpsucker	8
		sand shiner	4
		shorthead redhorse	9
		white sucker	177
Teton River total			772
Teton River T06	9/10/00	flathead chub	150
		longnose dace	32
		longnose sucker	187
		mountain sucker	14
		river carpsucker	3
		sand shiner	3
		white sucker	99
Teton River total			488
Tie Creek 045	8/6/01	brassy minnow	63
		fathead minnow	21
		green sunfish	3
		Iowa darter	16
		longnose sucker	2
Tie Creek total			105
West Fork Poplar River R02	7/26/00	fathead minnow	1
		goldeye	1
		longnose dace	3
		northern pike	12
		shorthead redhorse	1
		white sucker	15
West Fork Poplar River total			33
Whitewater Creek 167	8/25/00	brassy minnow	1
		common carp	87
		fathead minnow	2,054
		Iowa darter	15
		northern pike	1
		yellow perch	178

Table 3. Continued.

Site (visit number) Site number	Date	Species	Number captured
Whitewater Creek total			2,336
Willow Creek S03	8/17/01	black bullhead	4
		common carp	6
		fathead minnow	98
		lake chub	174
		longnose dace	13
		plains minnow	643
		white sucker	33
Willow Creek total			971
Willow Creek T04	9/8/00	no fish	0
Willow Creek total			0
Willow Creek 136	8/18/01	channel catfish	7
		common carp	18
		fathead minnow	7
		flathead chub	36
		yellow perch	5
Willow Creek total			73
Wolf Creek R01	7/25/00	fathead minnow	18
		Iowa darter	3
		lake chub	61
		longnose dace	337
		northern pike	2
		white sucker	80
Wolf Creek total			501
Wolf Creek S07	9/9/01	brassy minnow	39
		brook stickleback	26
		fathead minnow	77
		Iowa darter	3
		lake chub	182
		white sucker	127
Wolf Creek total			454
Grand total			35,565