

IDAHO DEPARTMENT OF FISH AND GAME

Rod Sando, Director

FEDERAL AID IN FISH RESTORATION
1997 Job Performance Report
Program F-71-R-22



REGIONAL FISHERIES MANAGEMENT INVESTIGATIONS SOUTHWEST REGION (Subprojects I-D, II-D, III-D, IV-D)

- | | |
|-------------|--|
| PROJECT 1. | SURVEYS AND INVENTORIES |
| Job a. | Southwest Region Mountain Lakes Investigations |
| Job b. | Southwest Region Lowland Lakes Investigations |
| Job c. | Southwest Region Rivers and Streams Investigations |
| Job d. | Southwest Region Salmon and Steelhead Investigations |
| PROJECT II. | TECHNICAL GUIDANCE |

By

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1997 ANNUAL PERFORMANCE REPORT

State of: Idaho

Program: Fisheries Management F-71-R-22

Project I: Surveys and Inventories

Subproject 1-D: Southwest Region

Job No.: a

Title: Mountain Lakes Investigations

Contract Period: July 1, 1997-June 30, 1998

ABSTRACT

A total of 56 lakes, frog ponds, and marshes within the Flytrip Creek (Middle Fork Boise River drainage) and Tenlake Creek (South Fork Payette River drainage) drainages were visited in 1997.

Westslope cutthroat trout *Oncorhynchus clarki lewisi* were found in Heart, PS#1, Camp, PS#2, and PS#3 lakes in the Flytrip drainage, and in Helen, Linda, Tenlakes #2, #5, #6, #7, #8, and #9 in the Tenlake Creek drainage. Arctic grayling *Thymallus arcticus* were found in Herman Lake in the Flytrip drainage and in Tenlake #2 in the Tenlake Creek drainage.

Spotted frog *Rana luteiventris* adult or juveniles were found in 8 lakes and ponds in the Flytrip Creek drainage, and in 10 lakes and ponds in the Tenlake Creek drainage. Long-toed salamanders *Ambystoma macrodactylum* were found in 2 waters in the Tenlake Creek Drainage.

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METHODS

Alpine lakes, ponds, and marshes were visited to document the distribution of fish and amphibians. Lake position was determined with a Global Positioning System (GPS) device. Some lakes were sampled with gill nets, some were angled, and some were observed for fish and amphibians. Gill nets were 30.5 m long with 7.6 m panels of 19, 25, 32, and 38 mm square mesh monofilament, and where set, were set overnight. All fish captured in gill nets were measured to the nearest mm and weighed to the nearest g. Lakes were visually surveyed for campsites and signs of human use and notes taken about difficulty of access. Amphibians were documented by walking around the water body, identifying and counting any amphibians observed. Water quality measurements were taken at some lakes. Data collected were entered into a mountain lake database and one-page reports were produced on each lake visited.

RESULTS

Fifty-six lakes, ponds, and marshes were visited by regional fishery staff in 1997. A total of 23 water bodies in the Flytrip Creek drainage (Middle Fork Boise River basin) and 33 water bodies in the Tenlake Creek (South Fork Payette River basin). Gill net sampling only was conducted in 21 waters.

Westslope cutthroat trout *Oncorhynchus clarki lewisi* were found in Camp, Heart, PS#1, PS#2, and PS#3 lakes in the Flytrip drainage, and in Helen, Linda, Tenlakes #2, #5, #6, #7, #8, and #9 in the Tenlake Creek drainage. Arctic grayling *Thymallus arcticus* were found in Herman Lake in the Flytrip drainage and in Tenlake #2 in the Tenlake Creek drainage.

Spotted frog *Rana luteiventris* adult or juveniles were found in 8 lakes and ponds in the Flytrip Creek drainage, and in 10 lakes and ponds in the Tenlake Creek drainage. Long-toed salamanders *Ambystoma macrodactylum* were found in 2 waters in the Tenlake Creek Drainage.

Summary information for each water visited is contained in Appendix A.

APPENDICES

APPENDIX A. Mountain Lake General Information.

Mountain Lake General Information

Lake Name: 0-23
 Planting Number: 09U158
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 11
 Latitude: 43 57.890
 Longitude: 115 01.766
 Spawning Potential: None.

Quadmap: Mount Everly
 Outlet:
 Drainage: SFPR
 Tributary To:
 Lake Type: Bog
 Elevation: 2708 m
 Size: 0.45 ha
 Maximum Depth: 2 m
 Aspect:
 Comments:

No inflow or outflow. No fish potential.
 Mud/gravel bottom. Down 18" from high water.
 No vegetation around shoreline.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	09-52	Quadmap:	Mount Everly
Planting Number:	09U159	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2695 m
Section:	12	Size:	0.11 ha
Latitude:	43 57.371	Maximum Depth:	1 m
Longitude:	111 00.265	Aspect:	
Spawning Potential:		Comments:	1-2' below high water. Mud/boulder substrate. 10% of shoreline was vegetated.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO₃):
 Hardness (mg/l CaCO₃):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	09-53	Quadmap:	Mount Everly
Planting Number:	09U160	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	
Range:	12E	Elevation:	2695 m
Section:	12	Size:	0.11 ha
Latitude:	43 57.387	Maximum Depth:	0.6 m
Longitude:	115 00.164	Aspect:	
Spawning Potential:		Comments:	3' down from high water. Mostly boulder substrate. No veg. along shore.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	22	Quadmap:	Mount Everly
Planting Number:	09U139	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	Dry
Range:	12E	Elevation:	2708 m
Section:	11	Size:	0 ha
Latitude:		Maximum Depth:	0 m
Longitude:		Aspect:	ESE
Spawning Potential:		Comments:	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Mean Length and Weight Report:

Species	Geartype	Date	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Mountain Lake General Information

Lake Name: 24	Quadmap: Mount Everly
Planting Number: 09U156	Outlet: Tenlake Ck
County: BOISE	Drainage: SFPR
National Forest: BOISE	Tributary To: Tenlake Ck
Township: 7N	Lake Type: Bog
Range: 12E	Elevation: 2592 m
Section: 2	Size: 0.22 ha
Latitude: 43 58.024	Maximum Depth: 2 m
Longitude: 115 01.274	Aspect: N
Spawning Potential: None	Comments: Mud bottom. Outlet w/some flow- not much Through a bog.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 2
 Spotted Frog Juv: 10
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 26
 Planting Number: 09U150
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 11
 Latitude: 43 57.883
 Longitude: 115 01.252
 Spawning Potential:
 None

Quadmap: Mount Everly
 Outlet:
 Drainage: SFPR
 Tributary To:
 Lake Type: Bog
 Elevation: 2592 m
 Size: 0.45 ha
 Maximum Depth: 1 m
 Aspect: N
 Comments:
 Mud bottom. Down 6" from high water. Mostly mud around edge-not much/very little
 Vegetation in water.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 10
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

Mountain Lake General Information

Lake Name: 27	Quadmap: Mount Everly
Planting Number: 09U151	Outlet:
County: BOISE	Drainage: SFPR
National Forest: BOISE	Tributary To:
Township: 7N	Lake Type: Bog
Range: 12E	Elevation: 2592 m
Section: 11	Size: 0.04 ha
Latitude: 43 57.883	Maximum Depth: 0.5 m
Longitude: 115 01.252	Aspect: N
Spawning Potential: None.	Comments: Mud bottom. Down 6" from high water. Mostly mud around edge-not much/very little vegetation in water.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 1
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:					
<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 28
 Planting Number: 09U152
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 11
 Latitude: 43 57.815
 Longitude: 115 01.290
 Spawning Potential:

Quadmap: Mount Everly
 Outlet:
 Drainage: SFPR
 Tributary To:
 Lake Type: Bog
 Elevation: 2592 m
 Size: 0.11 ha
 Maximum Depth: 1 m
 Aspect: N

Comments:
 Frog pond-bog/mud bottom. Down 12" from high water. Little veg. along shoreline (10-20%). Rest is mud.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date			
Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 2
 Spotted Frog Juv: 40
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	31	Quadmap:	Mount Everly
Planting Number:	09U153	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2598 m
Section:	11	Size:	0.45 ha
Latitude:	43 57.681	Maximum Depth:	1 m
Longitude:	115 01.447	Aspect:	
Spawning Potential:		Comments:	Bog-frog pond. Down 12" from high water. Mud bottom. Very little veg. along water line (5-10%)

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	32	Quadmap:	Mount Every
Planting Number:	09U154	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2598 m
Section:	11	Size:	0.45 ha
Latitude:	43 57.681	Maximum Depth:	1 m
Longitude:	115 01.447	Aspect:	
Spawning Potential:		Comments:	Bog-frog pond. Down 12" from high water. Mud bottom. Very little veg. along water line (5-10%)

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
---------	----------	------

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
---------	------------------	------	-----------------	------	----------

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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Mountain Lake General Information

Lake Name: 33	Quadmap: Mount Everly
Planting Number: 09U155	Outlet:
County: BOISE	Drainage: SFPR
National Forest: BOISE	Tributary To:
Township: 7N	Lake Type:
Range: 12E	Elevation: 2708 m
Section: 11	Size: 0.22 ha
Latitude:	Maximum Depth: 0.5 m
Longitude:	Aspect: E
Spawning Potential:	Comments: Mud/gravel/cobble bottom. 6" down from high water.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO₃):
 Hardness (mg/l CaCO₃):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
---------	----------	------

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	40A	Quadmap:	Mount Everly
Planting Number:	09U142	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	Tenlake Ck
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2659 m
Section:	12	Size:	0.11 ha
Latitude:	43 57.552	Maximum Depth:	2 m
Longitude:	115 00.775	Aspect:	N
Spawning Potential:	Limited.	Comments:	Inflow from Ten Lake #9. Shallow.

Chemical Report:

Date:	9/9/97
Alkalinity (mg/l CaCO3):	0
Hardness (mg/l CaCO3):	0
pH:	0
Conductivity (uS/cm):	0
Surface Temp(C):	15.5
Secchi (m):	0

Human Use Report:

Date:	9/9/97
Human Use:	
Campsite Condition:	None
Campsite Number:	0
Campfire Rings:	0
Trail Condition:	None
Trail Difficulty:	Difficult
Litter:	None

Angler Information:

Date:	9/9/97
Number of Anglers:	0
Hours Fished:	0
Total Caught:	0
Catch per Hour:	

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:	9/9/97
Spotted Frog Adults:	1
Spotted Frog Juv:	0
Tailed Frog Adults:	0
Tailed Frog Juv:	0
Tree Frog Adults:	0
Tree Frog Juv:	0
Salamanders:	0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 40B
 Planting Number: 09U141
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 12
 Latitude: 43 57.548
 Longitude: 115 00.794
 Spawning Potential:

Quadmap: Mount Everyly
 Outlet:
 Drainage: SFPR
 Tributary To: Tenlake Ck
 Lake Type: Bog
 Elevation: 2659 m
 Size: 0 ha
 Maximum Depth: 1 m
 Aspect: N
 Comments:

This pond is w/in 30' of #40A. It is above #40A and off channel. There is no inflow or outflow. Water temp at grass along edge was 68 F.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 0
 Hardness (mg/l CaCO3): 0
 pH: 0
 Conductivity (uS/cm): 0
 Surface Temp(C): 20
 Secchi (m): 0

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 2
 Spotted Frog Juv: 30
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	40C	Quadmap:	Mount Everly
Planting Number:	09U140	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	Moraine
Range:	12E	Elevation:	2677 m
Section:	12	Size:	0.11 ha
Latitude:		Maximum Depth:	0.5 m
Longitude:		Aspect:	W
Spawning Potential:		Comments:	
None.		Too shallow for fish.	

Chemical Report:

Date:	9/9/97
Alkalinity (mg/l CaCO3):	0
Hardness (mg/l CaCO3):	0
pH:	0
Conductivity (uS/cm):	0
Surface Temp(C):	12.2
Secchi (m):	0

Human Use Report:

Date:	
Human Use:	
Campsite Condition:	
Campsite Number:	
Campfire Rings:	
Trail Condition:	
Trail Difficulty:	
Litter:	

Angler Information:

Date:	9/9/97
Number of Anglers:	0
Hours Fished:	0
Total Caught:	0
Catch per Hour:	

Mean Length and Weight Report:

Species	Gear type	Date			
Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:	9/9/97
Spotted Frog Adults:	0
Spotted Frog Juv:	0
Tailed Frog Adults:	0
Tailed Frog Juv:	0
Tree Frog Adults:	0
Tree Frog Juv:	0
Salamanders:	0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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Mountain Lake General Information

Lake Name: 41	Quadmap: Mount Everly
Planting Number: 09U143	Outlet: Tenlake Ck
County: BOISE	Drainage: SFPR
National Forest: BOISE	Tributary To: Tenlake Ck
Township: 7N	Lake Type: Bog
Range: 12E	Elevation: 2659 m
Section: 12	Size: ha
Latitude:	Maximum Depth: 0.2 m
Longitude:	Aspect:
Spawning Potential:	Comments: Mud/gravel bottom.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 0
 Hardness (mg/l CaCO3): 0
 pH: 0
 Conductivity (uS/cm): 0
 Surface Temp(C): 23.3
 Secchi (m): 0

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 42
 Planting Number: 09U144
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 12
 Latitude: 43 57.458
 Longitude: 115 00.672
 Spawning Potential:
 None.

Quadmap: Mount Everly
 Outlet:
 Drainage: SFPR
 Tributary To: Tenlake Ck
 Lake Type: Bog
 Elevation: 2695 m
 Size: 0 ha
 Maximum Depth: 1 m
 Aspect: W
 Comments:
 Drains into tenlake #9 at high levels.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 0
 Hardness (mg/l CaCO3): 0
 pH: 0
 Conductivity (uS/cm): 0
 Surface Temp(C): 18.8
 Secchi (m): 0

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 1
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	43	Quadmap:	Mount Everyly
Planting Number:	09U145	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	Tenlake Ck
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2659 m
Section:	12	Size:	0.11 ha
Latitude:	43 57.432	Maximum Depth:	0.5 m
Longitude:	115 00.594	Aspect:	
Spawning Potential:	None.	Comments:	Too shallow for fish. Drains into #42. Mud and rock bottom. No veg. along shoreline. Water level down 18" from high water level.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 0
 Hardness (mg/l CaCO3): 0
 pH: 0
 Conductivity (uS/cm): 0
 Surface Temp(C): 17.7
 Secchi (m): 0

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	43A	Quadmap:	Mount Everly
Planting Number:	09U147	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	Tenlake Ck
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2698 m
Section:	12	Size:	0.11 ha
Latitude:	43 57.400	Maximum Depth:	0 m
Longitude:	115 00.448	Aspect:	W
Spawning Potential:	None.	Comments:	Mud/boulder/gravel bottom. Down 3-4' from high water. No veg. along shoreline.

Chemical Report:

Date:	9/9/97
Alkalinity (mg/l CaCO3):	0
Hardness (mg/l CaCO3):	0
pH:	0
Conductivity (uS/cm):	0
Surface Temp(C):	18.9
Secchi (m):	0

Human Use Report:

Date:	
Human Use:	
Campsite Condition:	
Campsite Number:	
Campfire Rings:	
Trail Condition:	
Trail Difficulty:	
Litter:	

Angler Information:

Date:	9/9/97
Number of Anglers:	0
Hours Fished:	0
Total Caught:	0
Catch per Hour:	

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:	9/9/97
Spotted Frog Adults:	0
Spotted Frog Juv:	0
Tailed Frog Adults:	0
Tailed Frog Juv:	0
Tree Frog Adults:	0
Tree Frog Juv:	0
Salamanders:	0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	43B	Quadmap:	Mount Everly
Planting Number:	09U148	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	Tenlake Ck
Township:	7N	Lake Type:	
Range:	12E	Elevation:	2698 m
Section:	12	Size:	0.11 ha
Latitude:		Maximum Depth:	0.5 m
Longitude:		Aspect:	
Spawning Potential:		Comments:	

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 0
 Hardness (mg/l CaCO3): 0
 pH: 0
 Conductivity (uS/cm): 0
 Surface Temp(C): 14.4
 Secchi (m): 0

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	44	Quadmap:	Mount Everly
Planting Number:	09U146	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	Tenlake Ck
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2695 m
Section:	12	Size:	0.11 ha
Latitude:	43 57.521	Maximum Depth:	0.5 m
Longitude:	115 00.573	Aspect:	N
Spawning Potential:		Comments:	
None.		Mud gravel. Water level down 2' from high	
		Water. No veg around shore-only mud. Too	
		shallow for fish.	

Chemical Report:

Date:	9/9/97
Alkalinity (mg/l CaCO3):	0
Hardness (mg/l CaCO3):	0
pH:	0
Conductivity (uS/cm):	0
Surface Temp(C):	17.7
Secchi (m):	0

Human Use Report:

Date:	
Human Use:	
Campsite Condition:	
Campsite Number:	
Campfire Rings:	
Trail Condition:	
Trail Difficulty:	
Litter:	

Angler Information:

Date:	9/9/97
Number of Anglers:	0
Hours Fished:	0
Total Caught:	0
Catch per Hour:	

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:	9/9/97
Spotted Frog Adults:	0
Spotted Frog Juv:	0
Tailed Frog Adults:	0
Tailed Frog Juv:	0
Tree Frog Adults:	0
Tree Frog Juv:	0
Salamanders:	0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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Mountain Lake General Information

Lake Name: 45	Quadmap: Mount Everly
Planting Number: 09U149	Outlet:
County: BOISE	Drainage: SFPR
National Forest: BOISE	Tributary To: Tenlake Ck
Township: 7N	Lake Type:
Range: 12E	Elevation: 2695 m
Section: 12	Size: 0.11 ha
Latitude: 43 57.538	Maximum Depth: 0.5 m
Longitude: 115 00.582	Aspect:
Spawning Potential:	Comments:

Mud/rock bottom. Very little grass down to water edge. Pond level down 2-3' from high water.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 0
 Hardness (mg/l CaCO3): 0
 pH: 0
 Conductivity (uS/cm): 0
 Surface Temp(C): 17.8
 Secchi (m): 0

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Mean Length and Weight Report:

Species	Geartype	Date	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	58	Quadmap:	Mount Everly
Planting Number:	10U129	Outlet:	NONE
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Cirque
Range:	12E	Elevation:	2701 m
Section:	13	Size:	0.90 ha
Latitude:	43 56.659	Maximum Depth:	4 m
Longitude:	115 00.192	Aspect:	S
Spawning Potential:		Comments:	
None, no inlet or outlet.		No fish potential. Mud to rock bottom. Very little vegetation around shoreline.	

Chemical Report:

Date: 9/6/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 13.3
 Secchi (m): 4

Human Use Report:

Date: 9/6/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/6/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/6/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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Mountain Lake General Information

Lake Name: 58 Planting Number: 10U129 County: ELMORE National Forest: BOISE Township: 7N Range: 12E Section: 13 Latitude: 43 56.659 Longitude: 115 00.192 Spawning Potential: None, no inlet or outlet.	Quadmap: Mount Everly Outlet: NONE Drainage: MFBR Tributary To: Flytrip Ck Lake Type: Cirque Elevation: 2701 m Size: 0.90 ha Maximum Depth: 4 m Aspect: S Comments: No fish potential. Mud to rock bottom. Very little vegetation around shoreline.
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Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	66	Quadmap:	Mount Everly
Planting Number:	10U139	Outlet:	
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	
Range:	12E	Elevation:	2464 m
Section:	24	Size:	0 ha
Latitude:		Maximum Depth:	0 m
Longitude:		Aspect:	
Spawning Potential:	None.	Comments:	Marsh. No pond. Did not survey for amphibians.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO₃):
 Hardness (mg/l CaCO₃):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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Mountain Lake General Information

Lake Name: 68	Quadmap: Mount Evely
Planting Number: 10U138	Outlet:
County: ELMORE	Drainage: MFBR
National Forest: BOISE	Tributary To:
Township: 7N	Lake Type:
Range: 12E	Elevation: 2482 m
Section: 13	Size: 0 ha
Latitude:	Maximum Depth: 0 m
Longitude:	Aspect:
Spawning Potential: None.	Comments: Marsh w/stream running through it. No pond. Did not see any amphibs.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/6/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/6/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/6/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 6A
 Planting Number: 09U157
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 12
 Latitude: 43 57.430
 Longitude: 115 00.203
 Spawning Potential:

Quadmap: Mount Everly
 Outlet:
 Drainage: SFPR
 Tributary To: Tenlake Ck
 Lake Type: Bog
 Elevation: 2695 m
 Size: 0.11 ha
 Maximum Depth: 1 m
 Aspect:
 Comments:
 1-2" down from high water. Lots of vegetation.
 Mud/boulder. Should have had frogs.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date			
Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

Mountain Lake General Information

Lake Name:	80	Quadmap:	Snowyside Peak
Planting Number:	10U136	Outlet:	Flytrip Ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Cirque
Range:	13E	Elevation:	2738 m
Section:	18	Size:	2.04 ha
Latitude:	43 55.687	Maximum Depth:	6.8 m
Longitude:	114 59.215	Aspect:	NW
Spawning Potential:		Comments:	Bottom type: silt/sand over boulder.

Chemical Report:

Date: 9/6/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 13.9
 Secchi (m): 6

Human Use Report:

Date: 9/6/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty:
 Litter: None

Angler Information:

Date: 9/6/97
 Number of Anglers: 1
 Hours Fished: 0.33
 Total Caught: 0
 Catch per Hour: 0

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/6/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 83
 Planting Number: 10U137
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 13E
 Section: 18
 Latitude: 43 55.936
 Longitude: 114 59.628
 Spawning Potential:

Quadmap: Snowyside Peak
 Outlet:
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type:
 Elevation: 2598 m
 Size: 0 ha
 Maximum Depth: 0 m
 Aspect: W
 Comments:
 No frogs noted.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date			
Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

Mountain Lake General Information

Lake Name: 84	Quadmap: Snowyside Peak
Planting Number: 10U134	Outlet:
County: ELMORE	Drainage: MFBR
National Forest: BOISE	Tributary To: Flytrip Ck
Township: 7N	Lake Type: Bog
Range: 12E	Elevation: 2598 m
Section: 24	Size: 0.45 ha
Latitude: 43 56.002	Maximum Depth: 3 m
Longitude: 114 59.967	Aspect: W
Spawning Potential: None.	Comments: Pond immediately below Herman. Mud bottom.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 100
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	86	Quadmap:	Snowside Peak
Planting Number:	10U133	Outlet:	
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Frog Pond
Range:	13E	Elevation:	2636 m
Section:	18	Size:	0.45 ha
Latitude:		Maximum Depth:	1 m
Longitude:		Aspect:	W
Spawning Potential:		Comments:	
None.		No fish potential.	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/6/97
 Human Use:
 Campsite Condition: Poorly Developed
 Campsite Number: 3
 Campfire Rings: 3
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/6/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/6/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: 87
 Planting Number: 10U130
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 13E
 Section: 18
 Latitude:
 Longitude:
 Spawning Potential:
 None: no inlet or outlet, too shallow.

Quadmap: Snowside Peak
 Outlet:
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type:
 Elevation: 2683 m
 Size: 0.45 ha
 Maximum Depth: 2 m
 Aspect: S
 Comments:
 Two ponds (0.454 ha each) located 50 yards apart. Upper pond is 1 m deep.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 1
 Spotted Frog Juv: 30
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 50 juv.

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	88	Quadmap:	Snowside Peak
Planting Number:	10U131	Outlet:	
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	
Range:	13E	Elevation:	2683 m
Section:	18	Size:	0 ha
Latitude:		Maximum Depth:	0 m
Longitude:		Aspect:	
Spawning Potential:		Comments:	Dry, grass meadow; no standing water.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Species	Geartype	Date	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Mountain Lake General Information

Lake Name: CAMP	Quadmap: Mount Everly
Planting Number: 100291	Outlet: Flytrip Ck
County: ELMORE	Drainage: MFBR
National Forest: BOISE	Tributary To: Flytrip Ck
Township: 7N	Lake Type: Bog
Range: 12E	Elevation: 2592 m
Section: 13	Size: ha
Latitude:	Maximum Depth: 4.3 m
Longitude:	Aspect: SE
Spawning Potential:	Comments:
Good; possible in both inlet and outlet.	Saw six, 2" trout in outlet stream.

Chemical Report:

Date: 9/7/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 1
 Surface Temp(C): 14.4
 Secchi (m): 4.3

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: Well Developed
 Campsite Number: 1
 Campfire Rings: 1
 Trail Condition: Good
 Trail Difficulty: Difficult
 Litter: Abundant

Angler Information:

Date: 9/7/97
 Number of Anglers: 1
 Hours Fished: 0.25
 Total Caught: 1
 Catch per Hour: 4

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Angling	9/7/97
WCT	Gill net	9/7/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	240		140		1.0
WCT	360	20	395	5	0.9

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WCT	1	240	240
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 1
 Spotted Frog Juv: 10
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT				1		1

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: FLYTRIP #1
 Planting Number: 100287
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 24
 Latitude: 43 55.757
 Longitude: 114 59.784
 Spawning Potential:

Quadmap: Snowyside Peak
 Outlet: Flytrip Ck
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type: Cirque
 Elevation: 2634 m
 Size: ha
 Maximum Depth: 8.5 m
 Aspect: W
 Comments:

Chemical Report:

Date: 9/7/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 12.2
 Secchi (m): 7.5

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 1
 Hours Fished: 0.25
 Total Caught: 0
 Catch per Hour: 0

Mean Length and Weight Report:

Species	Geartype	Date
	Mean Length (mm)	Mean Weight (g)
	S.E.	S.E.
	C-Factor	

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

Mountain Lake General Information

Lake Name:	FLYTRIP #3	Quadmap:	Snowyside Peak
Planting Number:	100290	Outlet:	*ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Cirque
Range:	12E	Elevation:	2689 m
Section:	25	Size:	0 ha
Latitude:	43 55.685	Maximum Depth:	6.9 m
Longitude:	114 59.218	Aspect:	W
Spawning Potential:		Comments:	Mostly silt in deep areas. Sand & detritus in gravel/cobble around edges.

Chemical Report:

Date: 9/7/97
 Alkalinity (mg/l CaCO₃): 0
 Hardness (mg/l CaCO₃): 0
 pH: 6.5
 Conductivity (uS/cm): 1
 Surface Temp(C): 15.6
 Secchi (m): 6.9

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Moderate
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 1
 Hours Fished: 0.5
 Total Caught: 0
 Catch per Hour: 0

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 4
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 6

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	FLYTRIP #4	Quadmap:	Snowyside Peak
Planting Number:	10U127	Outlet:	*ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	
Range:	12E	Elevation:	m
Section:	25	Size:	0 ha
Latitude:		Maximum Depth:	0 m
Longitude:		Aspect:	
Spawning Potential:		Comments:	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/7/97
 Number of Anglers:
 Hours Fished:
 Total Caught:
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:

Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	FLYTRIP #5	Quadmap:	Snowyside Peak
Planting Number:	10U128	Outlet:	*ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	
Range:	12E	Elevation:	2616 m
Section:	18	Size:	1.04 ha
Latitude:	43 55.811	Maximum Depth:	0 m
Longitude:	114 59.903	Aspect:	
Spawning Potential:		Comments:	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: Poor
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 1
 Hours Fished: 0.33
 Total Caught: 0
 Catch per Hour: 0

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 3
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	FLYTRIP #5+1	Quadmap:	Snowside Peak
Planting Number:	10U135	Outlet:	
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Bog
Range:	12E	Elevation:	2622 m
Section:	24	Size:	0 ha
Latitude:		Maximum Depth:	0 m
Longitude:		Aspect:	W
Spawning Potential:		Comments:	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: HEART
 Planting Number: 100292
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 13
 Latitude: 43 56.415
 Longitude: 114 59.885
 Spawning Potential:
 Some. Observed 2" trout at outlet.

Quadmap: Snowside Peak
 Outlet: Pack Ck
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type: Moraine
 Elevation: 2611 m
 Size: 13.6 ha
 Maximum Depth: 19 m
 Aspect: W
 Comments:
 Rock, sand, mud bottom. Good inlet from PS#1. Limited spawn potential. Saw several (>10) 2-3" trout in outlet.

Chemical Report:

Date: 9/7/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 15
 Secchi (m): 19

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: Well Developed
 Campsite Number: 2
 Campfire Rings: 2
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 1
 Hours Fished: 0.5
 Total Caught: 2
 Catch per Hour: 4

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Angling	9/7/97
WCT	Gill net	9/7/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	270		140		0.7
WCT	274	16	198	37	0.9

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WCT	2	260	280
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT		1	5	1		

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: HELEN
 Planting Number: 090209
 County: BOISE
 National Forest: BOISE
 Township: 8N
 Range: 12E
 Section: 35
 Latitude: 43 58.967
 Longitude: 115 01.808
 Spawning Potential:
 Inlet dry; outlet wet but not flowing.

Quadmap: Mount Everly
 Outlet:
 Drainage: SFPR
 Tributary To: SFPR
 Lake Type: Cirque
 Elevation: 2603 m
 Size: ha
 Maximum Depth: 10 m
 Aspect: N
 Comments:
 Female WSC ripe and dripping eggs.

Chemical Report:

Date: 9/11/97
 Alkalinity (mg/l CaCO₃): 17
 Hardness (mg/l CaCO₃): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 14.4
 Secchi (m): 10

Human Use Report:

Date: 9/11/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/11/97
 Number of Anglers: 2
 Hours Fished: 2
 Total Caught: 13
 Catch per Hour: 6.5

Mean Length and Weight Report:

Species	Geartype	Date
	Mean Length (mm)	Mean Weight (g)
	S.E.	S.E.
	C-Factor	

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WCT	12	340	550
RCT	1	0	0
	0	0	0

Amphibian Report:

Date: 9/11/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: HERMAN
 Planting Number: 100285
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 24
 Latitude: 43 56.001
 Longitude: 114 59.832
 Spawning Potential:
 None: no inlet, small outlet.

Quadmap: Snowside Peak
 Outlet: Flytrip Ck
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type: Bog
 Elevation: 2606 m
 Size: ha
 Maximum Depth: 7.2 m
 Aspect: W
 Comments:

Chemical Report:

Date: 9/7/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 16.7
 Secchi (m): 7.2

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: Poorly Developed
 Campsite Number: 1
 Campfire Rings: 1
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 1
 Hours Fished: 0.5
 Total Caught: 6
 Catch per Hour: 12

Mean Length and Weight Report:

Species	Gear type	Date
GRY	Angling	9/7/97
GRY	Gill net	9/7/97

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
GRY	6	170	200
	0	0	0
	0	0	0

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
GRY	186	3	55	3	0.9
GRY	187	1	9	2	0.1

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 4
 Spotted Frog Juv: 200
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
GRY		63	1			

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: HERMAN 1
 Planting Number: 10U132
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 24
 Latitude: 43 55.966
 Longitude: 114 59.810
 Spawning Potential:
 None.

Quadmap: Snowyside Peak
 Outlet:
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type:
 Elevation: 2622 m
 Size: 0.45 ha
 Maximum Depth: 2 m
 Aspect:
 Comments:
 Frog pond off SE corner of Herman lake.

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/7/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/7/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
	Mean Length (mm)	Mean Weight (g)
	S.E.	S.E.
	C-Factor	

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/7/97
 Spotted Frog Adults: 2
 Spotted Frog Juv: 10
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	ISLAND	Quadmap:	Snowside Peak
Planting Number:	100298	Outlet:	Flytrip Ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Moraine
Range:	13E	Elevation:	2677 m
Section:	18	Size:	0.90 ha
Latitude:		Maximum Depth:	m
Longitude:		Aspect:	
Spawning Potential:	None.	Comments:	Shallow lake although there is some inflow. Recommend no stocking.

Chemical Report:

Date: 9/5/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 13.9
 Secchi (m): 2

Human Use Report:

Date: 9/5/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: Poor
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/5/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/5/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	LINDA	Quadmap:	Mount Everly
Planting Number:	090210	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	SFPR
Township:	8N	Lake Type:	Cirque
Range:	12E	Elevation:	2604 m
Section:	35	Size:	ha
Latitude:	43 58.923	Maximum Depth:	4 m
Longitude:	115 01.893	Aspect:	N
Spawning Potential:		Comments:	

Inlet wet but not flowing; outlet dry.

Chemical Report:

Date: 9/10/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 14.4
 Secchi (m): 4

Human Use Report:

Date: 9/10/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/10/97
 Number of Anglers: 2
 Hours Fished: 0.5
 Total Caught: 0
 Catch per Hour: 0

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/10/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	PS #1	Quadmap:	Snowyside Peak
Planting Number:	100294	Outlet:	Flytrip Ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Moraine
Range:	13E	Elevation:	2636 m
Section:	18	Size:	ha
Latitude:	43 56.323	Maximum Depth:	13 m
Longitude:	114 59.546	Aspect:	W
Spawning Potential:	Excellent in both inlet and outlet. Lake probably doesn't need stocking.		
Comments:	Several 3" trout observed at outlet. Outlet to Heart Lake is passable down stream but probably not upstream.		

Chemical Report:

Date: 9/6/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 14.4
 Secchi (m): 13

Human Use Report:

Date: 9/6/97
 Human Use:
 Campsite Condition: Well Developed
 Campsite Number: 3
 Campfire Rings: 3
 Trail Condition: Poor
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/6/97
 Number of Anglers: 2
 Hours Fished: 0.5
 Total Caught: 7
 Catch per Hour: 14

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Angling	9/6/97
WCT	Gill net	9/6/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	271	11	174	18	0.9
WCT	211	11	64	25	0.6

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WCT	7	250	350
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/6/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT			2	3	3	1

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name: PS #2
 Planting Number: 100295
 County: ELMORE
 National Forest: BOISE
 Township: 7N
 Range: 13E
 Section: 18
 Latitude: 43 56.440
 Longitude: 114 59.449
 Spawning Potential:
 Adequate to support lake fishery; inlet. 2nd inlet w/additional gravel - very little flow. Possible spawning gravel in outlet.

Quadmap: Snowyside Peak
 Outlet: Flytrip Ck
 Drainage: MFBR
 Tributary To: Flytrip Ck
 Lake Type: Moraine
 Elevation: 2659 m
 Size: 0 ha
 Maximum Depth: 5 m
 Aspect: W
 Comments:

Fairly shallow w/mud bottom. Small inlet w/flowing water. Fish passage from PS2 - PS1; PS3 - PS2.

Chemical Report:

Date: 9/5/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 13.9
 Secchi (m): 5

Human Use Report:

Date: 9/5/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/5/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Angling	9/5/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	116		15		1.0

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT			1			

Mountain Lake General Information

Lake Name: PS #3 Planting Number: 100296 County: ELMORE National Forest: BOISE Township: 7N Range: 13E Section: 18 Latitude: 43 56.590 Longitude: 114 58.920 Spawning Potential: No fry observed in outlet stream. No inlet. Very limited if any spawning potential.	Quadmap: Snowyside Peak Outlet: *ck Drainage: MFBR Tributary To: Flytrip Ck Lake Type: Moraine Elevation: 2726 m Size: 0.90 ha Maximum Depth: 5.6 m Aspect: W Comments: Several fish observed rising. Mostly small 6-10".
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Chemical Report:

Date: 9/5/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 58
 Secchi (m): 5.6

Human Use Report:

Date: 9/5/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 1
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/5/97
 Number of Anglers:
 Hours Fished:
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Gill net	9/5/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	177	41	70	45	1.0

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/5/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT		2	1		

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	PS #4	Quadmap:	Snowside Peak
Planting Number:	10U070	Outlet:	Flytrip Ck
County:	ELMORE	Drainage:	MFBR
National Forest:	BOISE	Tributary To:	Flytrip Ck
Township:	7N	Lake Type:	Bog
Range:	13E	Elevation:	2616 m
Section:	18	Size:	0 ha
Latitude:	43 56.163	Maximum Depth:	3.4 m
Longitude:	114 59.849	Aspect:	W
Spawning Potential:	None.	Comments:	Mud bottom, no inlet or outlet.

Chemical Report:

Date:	9/7/97
Alkalinity (mg/l CaCO3):	17
Hardness (mg/l CaCO3):	0
pH:	6.5
Conductivity (uS/cm):	0
Surface Temp(C):	17.8
Secchi (m):	3.4

Human Use Report:

Date:	9/7/97
Human Use:	
Campsite Condition:	None
Campsite Number:	0
Campfire Rings:	0
Trail Condition:	None
Trail Difficulty:	Difficult
Litter:	None

Angler Information:

Date:	9/7/97
Number of Anglers:	0
Hours Fished:	0
Total Caught:	0
Catch per Hour:	

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:	9/7/97
Spotted Frog Adults:	0
Spotted Frog Juv:	30
Tailed Frog Adults:	0
Tailed Frog Juv:	0
Tree Frog Adults:	0
Tree Frog Juv:	0
Salamanders:	0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	TENLAKE #10	Quadmap:	Mount Everly
Planting Number:	090220	Outlet:	
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	
Township:	7N	Lake Type:	Moraine
Range:	12E	Elevation:	2709 m
Section:	11	Size:	0 ha
Latitude:	43 57.913	Maximum Depth:	7.2 m
Longitude:	115 01.825	Aspect:	E
Spawning Potential:	No obvious spawn potential.	Comments:	Mud bottom; meadow bog lake.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 17.8
 Secchi (m): 7.2

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 6
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
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APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	TENLAKE #2 SUMMIT #2	Quadmap:	Mount Everly
Planting Number:	090212	Outlet:	Tenlake Ck
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	SFPR
Township:	7N	Lake Type:	Moraine-meadow
Range:	12E	Elevation:	2592 m
Section:	2	Size:	13.6 ha
Latitude:	43 57.99 N	Maximum Depth:	5 m
Longitude:	115 01.32 W	Aspect:	NE
Spawning Potential:		Comments:	
Marginal, poor		Caught several GRY in GN.	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: Poor
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
GRY	Gill net	9/9/97
WCT	Gill net	9/9/97

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
GRY	179	1	53	2	0.9
WCT	440		0		0.0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 1
 Spotted Frog Juv: 10
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
GRY			6			
WCT						1

Mountain Lake General Information

Lake Name: TENLAKE #4	Quadmap: Mount Everly
Planting Number: 090214	Outlet:
County: BOISE	Drainage: SFPR
National Forest: BOISE	Tributary To: SFPR
Township: 7N	Lake Type: Cirque
Range: 12E	Elevation: 2683 m
Section: 12	Size: 0 ha
Latitude: 43 57.582	Maximum Depth: 4 m
Longitude: 115 00.910	Aspect: W
Spawning Potential:	Comments: No fish observed, mud bottom.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C): 18.9
 Secchi (m): 4

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: None
 Campsite Number: 0
 Campfire Rings: 0
 Trail Condition: None
 Trail Difficulty:
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Mean Length and Weight Report:

Species	Geartype	Date
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Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
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Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:					
<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	TENLAKE #5	Quadmap:	Mount Everly
Planting Number:	090215	Outlet:	Tenlake Ck
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	Tenlake Ck
Township:	7N	Lake Type:	Moraine
Range:	12E	Elevation:	2689 m
Section:	12	Size:	ha
Latitude:	43 57.447	Maximum Depth:	3.1 m
Longitude:	115 00.305	Aspect:	W
Spawning Potential:	None.	Comments:	

Chemical Report:

Date:	9/9/97
Alkalinity (mg/l CaCO3):	17
Hardness (mg/l CaCO3):	0
pH:	6.5
Conductivity (uS/cm):	0
Surface Temp(C):	14.4
Secchi (m):	3.1

Human Use Report:

Date:	9/9/97
Human Use:	
Campsite Condition:	Poorly Developed
Campsite Number:	4
Campfire Rings:	4
Trail Condition:	None
Trail Difficulty:	Difficult
Litter:	None

Angler Information:

Date:	9/9/97
Number of Anglers:	0
Hours Fished:	0
Total Caught:	0
Catch per Hour:	

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Gill net	9/9/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	118	3	10	0	0.6

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Amphibian Report:

Date:	9/9/97
Spotted Frog Adults:	0
Spotted Frog Juv:	0
Tailed Frog Adults:	0
Tailed Frog Juv:	0
Tree Frog Adults:	0
Tree Frog Juv:	0
Salamanders:	0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT			2			

Mountain Lake General Information

Lake Name:	TENLAKE #6	Quadmap:	Mount Everly
Planting Number:	090216	Outlet:	Tenlake Ck
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	SFPR
Township:	7N	Lake Type:	
Range:	12E	Elevation:	2689 m
Section:	12	Size:	ha
Latitude:		Maximum Depth:	m
Longitude:		Aspect:	
Spawning Potential:		Comments:	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO₃):
 Hardness (mg/l CaCO₃):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/8/97
 Number of Anglers: 1
 Hours Fished: 0.25
 Total Caught: 1
 Catch per Hour: 4

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Angling	9/8/97

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WCT	1	280	280
	0	0	0
	0	0	0

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	280		215		1.0

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT					1	

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	TENLAKE #7	Quadmap:	Mount Everly
Planting Number:	090217	Outlet:	Tenlake Ck
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	SFPR
Township:	7N	Lake Type:	
Range:	12E	Elevation:	2692 m
Section:	12	Size:	ha
Latitude:		Maximum Depth:	m
Longitude:		Aspect:	
Spawning Potential:		Comments:	

Chemical Report:

Date:
 Alkalinity (mg/l CaCO3):
 Hardness (mg/l CaCO3):
 pH:
 Conductivity (uS/cm):
 Surface Temp(C):
 Secchi (m):

Human Use Report:

Date:
 Human Use:
 Campsite Condition:
 Campsite Number:
 Campfire Rings:
 Trail Condition:
 Trail Difficulty:
 Litter:

Angler Information:

Date: 9/9/97
 Number of Anglers: 0
 Hours Fished: 0
 Total Caught: 0
 Catch per Hour:

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
	0	0	0
	0	0	0
	0	0	0

Mean Length and Weight Report:

Species	Gear type	Date	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	Angling	9/9/97	353	23	283	81	0.7
WCT	Gill net	9/9/97	353	23	283	81	0.7

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT				6		10

Amphibian Report:

Date:
 Spotted Frog Adults:
 Spotted Frog Juv:
 Tailed Frog Adults:
 Tailed Frog Juv:
 Tree Frog Adults:
 Tree Frog Juv:
 Salamanders:

Mountain Lake General Information

Lake Name: TENLAKE #8
 Planting Number: 090218
 County: BOISE
 National Forest: BOISE
 Township: 7N
 Range: 12E
 Section: 12
 Latitude: 43 57.415
 Longitude: 115 00.436
 Spawning Potential:
 No spawn potential in inlet. No inflow from surface

Quadmap: Mount Everly
 Outlet: Tenlake Ck
 Drainage: SFPR
 Tributary To: Tenlake Ck
 Lake Type: Moraine
 Elevation: 2698 m
 Size: ha
 Maximum Depth: 4.3 m
 Aspect: W
 Comments:
 Ten Lake #8 drains west into Ten Lake #9. It is higher than Ten Lake #7.

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 14.4
 Secchi (m): 4.3

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: Poorly Developed
 Campsite Number: 4
 Campfire Rings: 4
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 1
 Hours Fished: 0.5
 Total Caught: 6
 Catch per Hour: 12

Mean Length and Weight Report:

Species	Geartype	Date
WSC	Angling	9/9/97
WSC	Gill net	9/9/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WSC	278	20	180	32	0.7
WSC	284	17	180	40	0.7

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WSC	6	180	310
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WSC			1	1	7	3

APPENDIX A . (continued)

Mountain Lake General Information

Lake Name:	TENLAKE #9	Quadmap:	Mount Everly
Planting Number:	090219	Outlet:	Tenlake Ck
County:	BOISE	Drainage:	SFPR
National Forest:	BOISE	Tributary To:	SFPR
Township:	7N	Lake Type:	Cirque
Range:	12E	Elevation:	2697 m
Section:	12	Size:	ha
Latitude:	43 57.479	Maximum Depth:	19 m
Longitude:	115 00.805	Aspect:	W
Spawning Potential:		Comments:	

Chemical Report:

Date: 9/9/97
 Alkalinity (mg/l CaCO3): 17
 Hardness (mg/l CaCO3): 0
 pH: 6.5
 Conductivity (uS/cm): 0
 Surface Temp(C): 13.3
 Secchi (m): 10

Human Use Report:

Date: 9/9/97
 Human Use:
 Campsite Condition: Poorly Developed
 Campsite Number: 4
 Campfire Rings: 4
 Trail Condition: None
 Trail Difficulty: Difficult
 Litter: None

Angler Information:

Date: 9/9/97
 Number of Anglers: 1
 Hours Fished: 0.25
 Total Caught: 3
 Catch per Hour: 12

Mean Length and Weight Report:

Species	Geartype	Date
WCT	Angling	9/9/97

Species	Mean Length (mm)	S.E.	Mean Weight (g)	S.E.	C-Factor
WCT	242	15	146	38	1.1

Species	Number Caught	Minimum Length (mm)	Maximum Length (mm)
WCT	3	200	312
	0	0	0
	0	0	0

Amphibian Report:

Date: 9/9/97
 Spotted Frog Adults: 0
 Spotted Frog Juv: 0
 Tailed Frog Adults: 0
 Tailed Frog Juv: 0
 Tree Frog Adults: 0
 Tree Frog Juv: 0
 Salamanders: 0

Length Frequency

Species Captured:	<151mm	151-200mm	201-250mm	251-300mm	301-350mm	>350mm
WCT			2	2	2	1

1997 ANNUAL PERFORMANCE REPORT

State of: Idaho

Program: Fisheries Management F-71-R-22

Project I: Surveys and Inventories

Subproject I-D: Southwest Region

Job No.: b

Title: Lowland Lakes Investigations

Contract Period: July 1, 1997 to June 30, 1998

ABSTRACT

Extensive sampling was conducted on Arrowrock Reservoir during the winter and spring of 1997 in an effort to capture bull trout *Salvelinus confluentus* as part of a cooperative project between the Department and the U.S. Bureau of Reclamation. This project included radio tagging 30 adults and conducting a population estimate of the bull trout found in Arrowrock Reservoir.

On May 8, 1997 Beach's Pond was sampled for a total of 0.77 h of activated electrode time. A total of 296 fish was collected. The catch included bluegill *Lepomis macrochirus*, largemouth bass *Micropterus salmoides*, and pumpkinseed *Lepomis gibbosus*.

Following up on reports of white crappie *Pomoxis annularis* being harvested in April and May of 1997 by anglers, Black's Creek Reservoir was sampled with electrofishing equipment on June 9, 1997. Thirty minutes of activated electrode time was utilized to sample the reservoir. A total of 276 fish was sampled. White crappie made up 100% of the catch.

Blackstone Reservoir was sampled on November 17, 1997. Sampling effort included two units of gillnetting, four units of trapnetting, and 0.53 h of electrofishing. A total of 55 fish was sampled. The catch included brown bullhead *Ameiurus nebulosus*, bridgelip sucker *Catostomus columbianus*, Lahontan cutthroat *Oncorhynchus clarki henshawi*, largemouth bass *Micropterus salmoides*, redband shiner *Richardsonius balteatus*, wild rainbow/redbandtrout *O. mykiss gairdneri*.

C.J. Strike Reservoir was sampled on May 28, 29, and 30, 1997. Sampling included 1.3 h of electrofishing, four units of gillnetting, and four units of trapnetting. A total of 801 fish was caught.

Caldwell City Pond was sampled by electrofishing for 0.38 h on May 20, 1997. A total of 192 fish was sampled.

Caldwell pond #1 was sampled by electrofishing for 0.35 h on May 20, 1997. A total of 166 fish was sampled.

Caldwell pond #2 was sampled by electrofishing for 0.30 h on May 20, 1997. A total of 135 fish was sampled.

Sampling was conducted on Crane Falls by electrofishing for one h on May 27, 1997. A total of 267 fish was captured.

Deadwood Reservoir sampling was conducted during the months of May, June, and October utilizing gill nets, trap nets, and backpack electrofishing. Extensive sampling of the reservoir and associated streams was an effort to capture bull trout as part of a cooperative project between the Department and the U.S. Bureau of Reclamation.

Duff Lane Pond was sampled on May 22, 1997 with 0.39 h of electrofishing. Bluegill, brown bullhead, hatchery rainbow, and largemouth bass were represented in the sample.

Emmett Airport Pond was sampled on May 21, 1997 utilizing 0.29 h of electrofishing. A total of 81 fish was captured. Black crappie, bluegill, brown bullhead, largemouth bass, and pumpkinseed were represented in the catch.

Indian Creek Reservoir was sampled on April 22 and June 9, 1997 utilizing a total of 1.93 h of electrofishing. Bluegill and largemouth bass were represented in each sample. The total catch for April and June were 571, and 75, respectively.

Lake Lowell was sampled on May 7, May 14, July 10, and November 3, 1997. A total of 4.27 h of activated electrode time was utilized for sampling. Black crappie, bluegill, bridgelip sucker, brown bullhead, common carp, largemouth bass, largescale sucker *Catostomus macrochelyus*, smallmouth bass, and yellow perch *Perca flavescens* were represented in the sampling. A fishing tournament was held on Lake Lowell on May 10 and 11. Sixty anglers fished for 960 h and caught 283 largemouth bass and 30 smallmouth bass.

Lucky Peak Reservoir was sampled on May 13, 1997 utilizing 1.13 h of electrofishing, two units of overnight gillnetting, four hours of sinking gill nets and four units of trapnetting. A total of 420 fish was caught. Nongame species represented 80% of the total CPUE by number and 86% of the total CPUE by weight. Additional sampling was conducted between March 6 and May 19 in an effort to capture bull trout as part of a cooperative project between the Department and the Bureau of Reclamation. This project included radio tagging Lucky Peak bull-trout and transporting them upstream of Arrowrock Dam.

Paddock Reservoir was sampled on April 16 and October 26, 1997. Effort for both sampling days included one h of electrofishing, two units of gillnetting, and four units of trapnetting. A total of 656 fish was caught.

Quinn Pond was sampled on April 15, 1997 utilizing 0.82 h of activated electrode time. A total of 140 fish was captured.

Sawyers Pond was sampled on May 21, 1997 utilizing 0.38 h of activated electrode time. A total of 74 fish was captured.

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METHODS

General Fish Sampling

Electrofishing was conducted from a boom mounted electrofishing boat. Netting of immobilized fish was conducted with one or two netters. Electrofishing was conducted along shoreline. Attempts were made to collect all fish immobilized. One unit of electrofishing effort was defined as one hour of activated electrode time. Unless noted below, electrofishing occurred during darkness. Electrofishing CPUE was calculated as catch, by both number and weight, per hour of activated electrode time.

Gillnetting was done using floating and sinking experimental gill nets. Experimental gill nets were 45.7 m long by 1.8 m deep, and were composed of 6-7.6 m panels of 1.9, 2.5, 3.2, 3.8, 5.2, and 6.4 cm bar mesh. Nets were set in late afternoon and pulled the following morning. Nets were set by tying or anchoring one end of the net near or on shore in water less than 0.5 m deep and extending the net toward the center of the water, perpendicular to shore. When more than one floating or one sinking net was used per water, nets were set such that both large and small mesh ends of the nets were set next to shore. One unit of gill net effort was defined as one floating and one sinking experimental gill net fished overnight. Gill net CPUE was calculated as combined catch of one floating and one sinking experimental net, by both number and weight, per night. (Hereafter, 'gill net' catch refers to combined catch from one floating and one sinking experimental gill net.)

Trapnetting was conducted using standard trap nets composed of two light steel frames measuring 1.8 m x 0.9 m, covered with 19 mm square black mesh, and with 5-76 cm steel round hoops with crow foot throats on the first and third hoops, and with 23 m long lead lines 0.9 to 1.3 m in height. Trap nets were set on shallow sloping areas with the top of the steel frame within 0.3 m of the water surface. The lead line was tied to shore. Trap nets were set late in the afternoon and pulled the following morning. One unit of trap net effort was defined as one trap net fished overnight. Trap net CPUE was calculated as catch of one trap net, by both number and weight, per night.

Attempts were made to measure a sample of each 10 mm size group of each species collected to the nearest mm and to weigh a sample of each size group collected to the nearest g. In some cases, scale samples were collected to estimate age and growth. Scales from trout were collected from above the lateral line posterior to an imaginary line between the posterior end of the dorsal fin and the anterior end of the anal fin. Scales from bass were collected at the end of the pectoral fin as it laid against the body of the fish from above the lateral line. Entire pectoral fin spines were removed from catfish to estimate age and growth. Fins and scales were placed in coin envelopes and processed later in the lab.

RESULTS

Arrowrock Reservoir

Extensive sampling was conducted during the winter and spring of 1997 in an effort to capture bull trout *Salvelinus confluentus* as part of a cooperative project between the Department and the U.S. Bureau of Reclamation. This project included radio tagging of 30 adults and conducting a population estimate of the bull trout found in Arrowrock Reservoir. The results of this project can be found in Flatter 1997.

Beach's Pond

Electrofishing

Beach's Pond is approximately two acres and is located on Department property in Nampa. Catch and release regulations are in place to provide a quality warmwater fishing opportunity in this heavily utilized area. The pond was full at the time of sampling.

On May 8, 1997 Beach's Pond was sampled for a total of 0.77 h of activated electrode time. Two electrofishing samples were taken during daylight, one was taken after dark.

A total of 296 fish was collected. The catch included bluegill *Lepomis macrochirus*, largemouth bass *Micropterus salmoides*, and pumpkinseed *L. gibbosus*. The total number, lengths and standard errors, mean and standard errors for weights, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent by number and weight are presented by species in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Bluegill represented 55.4% of the catch by number and 55.3 % by weight. Largemouth bass represented 35.5% of the catch by number and 37.9% of the catch by weight. The remainder of the catch consisted of pumkinseed which made up 9.1% by number and 6.7% by weight of the total catch.

Blacks Creek Reservoir

Electrofishing

Black's Creek Reservoir is created by an 1,650 ft earthen dam owned by the Pleasant Valley Irrigation Company in Boise. At full pool the reservoir is approximately 220 surface acres. Only during years with normal precipitation does the reservoir reach full pool. The reservoir levels

during summer and winter months are commonly too low to support a sport fishery. Historical gillnetting has been unsuccessful in documenting fish in this reservoir. In 1974 an attempt was made to create a warmwater sport fishery in Black's Creek Reservoir by planting 500 crappie (unknown species), 150 yellow perch *Perca flavescens*, 6 bluegill, 20 largemouth bass, and 50 bullhead (unknown species). The reservoir has gone dry numerous times between this stocking and the early 1990s.

Following up on reports of white crappie *Pomoxis annularis* being harvested in April and May of 1997 by anglers, Black's Creek Reservoir was sampled with electrofishing equipment on June 9, 1997. Thirty minutes of activated electrode time was utilized to sample the reservoir.

A total of 276 fish was sampled. White crappie made up 100% of the catch. Several year-classes of crappie were present with sizes ranging from four to 28 cm. The lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Although the future availability of water to support a warmwater fishery is uncertain, Black's Creek Reservoir was stocked with 350 largemouth bass (44 kg total) and 75 bluegill (3 kg total) following the above mentioned sampling on June 9, 1997.

Blackstone Reservoir

Lowland Lake Sampling

Blackstone Reservoir is located in southern Owyhee County approximately 5.5 miles northeast of Grassmere. At approximately 88 surface acres, inflows to Blackstone are largely dependent on flashy, ephemeral streams, and the degree of irrigation use from the perennial Louse Creek. There is no historical record of any fish sampling conducted in this reservoir.

Blackstone was sampled on November 17, 1997. Sampling effort included two units of gillnetting, four units of trapnetting, and 0.53 h of electrofishing (Table 1). The water was very turbid at the time of sampling, with an estimated secchi disc of under one m.

A total of 55 fish was sampled. The total CPUE by number and weight was 36 and 10.42 kg, respectively. The catch included brown bullhead *Ameiurus nebulosus*, largemouth bass, bridgelip sucker *Catostomus columbianus*, Lahontan cutthroat *O. clarki henshawi*, largemouth bass, redband shiner *Richardsonius balteatus*, wild rainbow/redband trout *Oncorhynchus mykiss gairdneri*. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent by number and weight for all gear types are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B. Catch-per-effort by species and gear type can be found in Appendix C.

Gill nets had the highest CPUE for all gear types, representing 52% of the total catch by number (38) and 71% by weight. Bridgelip sucker, wild rainbow/redband trout, and largemouth bass represented 39.5, 28.9, and 18.4% of the catch by number, respectively. Wild rainbow/redband trout represented 50.2% of the catch by weight.

Electrofishing caught 14.5% of the total fish (8). Largemouth bass represented 87.5% and 82.1% of the catch by number and weight, respectively. Brown bullhead made up the remainder of the catch.

Trap nets caught a total of nine fish. The catch consisted of brown bullhead, largemouth bass, and wild rainbow/redband trout. Largemouth bass represented 66.7% and 43.4% of the catch by number and weight, respectively.

C.J. Strike Reservoir

Lowland Lake Sampling

C.J. Strike Reservoir is a 7,500 acre reservoir located in southwestern Idaho. The reservoir is primarily managed as a warmwater fishery but fingerling rainbow trout are also planted to provide fishing opportunities.

Sampling was conducted on May 28, 29, and 30, 1997. Sampling included 1.3 h of electrofishing, four units of gillnetting, and four units of trapnetting (Table 1).

A total of 801 fish was caught. The total CPUE by number and weight was 471 and 159.6 kg, respectively. Black crappie *Pomoxis nigromaculatus*, bluegill, bridgelip sucker, brown bullhead, channel catfish *Ictalurus punctatus*, chiselmouth *Acrocheilus alutaceus*, common carp *Cyprinus carpio*, hatchery rainbow *Oncorhynchus mykiss*, largemouth bass, largescale sucker *Catostomus macrochaelius*, mountain whitefish *Prosopium williamsoni*, northern squawfish *Ptychocheilus oregonensis*, peamouth *Mylocheilus caurinus*, pumpkinseed, smallmouth bass *Micropterus dolomieu*, warmouth *Lepomis gulosus*, white crappie, and yellow perch were represented in the catch.

Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent by number and weight for all gear types are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B. Catch-per-effort by species and gear type can be found in Appendix C.

Rainbow Trout:

The mean length and number captured by electrofishing and gillnetting were 270 mm, two, and 313 mm, two, respectively. No trout were captured in trap nets. The catch-per-effort by

number for electrofishing and gillnetting were 1.47, and 1.50, respectively. The catch-per-effort by weight for electrofishing and gillnetting were 0.46, and 0.56, respectively.

Caldwell City Pond

Electrofishing

Caldwell City Pond was sampled by electrofishing for 0.38 h on May 20, 1997.

A total of 192 fish was sampled. The catch included black crappie, bluegill, brown bullhead, channel catfish, common carp, hatchery rainbow, largemouth bass, and pumpkinseed.

The total catch-per-effort by number and weight was 493.7 and 68.7 kg, respectively. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Caldwell Pond #1

Electrofishing

Caldwell pond #1 was sampled by electrofishing for 0.35 h on May 20, 1997.

A total of 166 fish was sampled. The catch included black crappie, bluegill, brown bullhead, common carp, hatchery rainbow, largemouth bass, and pumpkinseed.

The total CPUE by number and weight was 468.7 and 108.7 kg, respectively. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Caldwell Pond #2

Electrofishing

Caldwell pond #2 was sampled by electrofishing for 0.30 h on May 20, 1997.

A total of 135 fish was sampled. The catch included bluegill, common carp, hatchery rainbow, and largemouth bass.

The total catch-per-effort by number and weight was 441.7 and 149.4 kg, respectively. Bluegill, common carp, hatchery rainbow, and largemouth bass represented 73.3, 5.9, 5.2, and 15.6% of the catch by number, respectively. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Crane Falls

Electrofishing

Sampling was conducted by electrofishing for one h on May 27, 1997.

A total of 267 fish was caught. The total catch-per-effort by number and weight was 257.6 and 62.1 kg, respectively. Bluegill, hatchery rainbow, largemouth bass pumpkinseed, and yellow perch were represented in the catch.

Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Deadwood Reservoir

Sampling was conducted during the months of May, June, and October utilizing gill nets, trap nets, and backpack electrofishing. Extensive sampling of the reservoir and associated streams was an effort to capture bull trout as part of a cooperative project between the Department and the U.S. Bureau of Reclamation. The results of this sampling can be found in Allen 1997.

Duff Lane Pond

Electrofishing

Duff Lane Pond was sampled on May 22, 1997 with 0.39 h of electrofishing. Total CPUE by number and weight was 106 and 27.7 kg, respectively. Bluegill, brown bullhead, hatchery rainbow, and largemouth bass were represented in the sample. Bluegill, largemouth bass, and

hatchery rainbow were the most abundant species and represented 38.04, 22.83, and 38.04% of the sample by number.

Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Emmett Airport Pond

Electrofishing

Sampling was conducted on May 21, 1997 utilizing 0.29 h of electrofishing. A total of 81 fish was captured. Total catch-per-unit-effort by number and weight was 284 and 42.72 kg, respectively. Black crappie, bluegill, brown bullhead, largemouth bass, and pumpkinseed were represented in the catch. Largemouth bass dominated the total catch, 47% by number and 88% by weight.

Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Indian Creek Reservoir

Electrofishing

Indian Creek Reservoir is located 15 miles southeast of Boise. The reservoir is located on lands owned by the Bureau of Land Management and managed by the Department as a Sportsman's Access. At full pool Indian Creek Reservoir is approximately 221 surface acres. Inflows to the reservoir are largely dependent on the ephemeral Indian Creek. Fish populations in this reservoir have been historically limited by fluctuating water levels. The reservoir was treated with rotenone on September 23, 1992 and restocked with warmwater fish in 1993 as noted in Allen et al. 1995.

Sampling was conducted on April 22 and June 9, 1997 utilizing a total of 1.93 h of electrofishing. The total CPUE by number and weight for the April and June sampling was 611.6, 75.2 kg, 405, and 49.2 kg, respectively. Bluegill and largemouth bass were represented in each sample. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Lake Lowell

Electrofishing

Sampling occurred on May 7, May 14, July 10, and November 3, 1997. A total of 4.27 h of activated electrode time was utilized for sampling.

On May 7, May 14, July 10, and November 3, a total of 175, 173, 237, and 220 fish was sampled, respectively. Black crappie, bluegill, bridgelip sucker, brown bullhead, common carp, largemouth bass, largescale sucker, smallmouth bass, and yellow perch were represented in the sampling. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Nongame fish dominated the total catch by number and weight during May. Yellow perch and smallmouth bass were the most dominant game fish collected by number in the May 7 sample, representing 20.6% and 18.3% of the total catch. No bluegill or black crappie were captured or observed (Appendices A and B).

Brown bullhead, largemouth bass, and yellow perch dominated the game fish catch by number on May 14, representing 12.7%, 16.2, and 17.9%, respectively. Bluegill and black crappie made up 1.2, and 6.4% of the total catch by number respectively.

The dominant game fish sampled on July 10 was largemouth bass, smallmouth bass, and yellow perch, representing 4.6%, 51.0%, and 11.8% of the total catch by number respectively. Bluegill represented 0.4% of the total catch by number, only one 145 mm specimen was captured. No black crappie were captured or observed.

Bluegill, largemouth bass, and smallmouth bass dominated the game fish species collected on November 11 and represented 20%, 17.3%, and 33.6% of the total catch by number, respectively. Black crappie represented 0.4% of the total catch by number.

Fishing Tournament

A fishing tournament was held on Lake Lowell on May 10 and 11. Sixty anglers fished for 960 h and caught 283 largemouth bass and 30 smallmouth bass. Fish less than 305 mm were released immediately by anglers. The mean lengths and weights for largemouth and smallmouth bass were 392 mm (SE=3), 1210 g (SE=56), 369 mm (SE=8), and 857 g (SE=96), respectively. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent by number and weight are presented in Appendix A. Length frequency, cm size group, and relative weight by cm size group can be found in Appendix B.

Lucky Peak

Lowland Lake Sample

Sampling was conducted on May 13 utilizing 1.13 h of electrofishing, two units of overnight gill nets, four hours of sinking gill nets, and four units of trapnetting.

A total of 420 fish was caught. The total CPUE by number and weight was 449, and 136.43 kg, respectively. Bridgelip sucker, bull trout, chiselmouth, fall chinook salmon *Oncorhynchus tshawytscha*, hatchery rainbow, kokanee salmon *Oncorhynchus nerka kennerlyi*, largescale sucker, mountain whitefish, northern squawfish, redband shiner, smallmouth bass, westslope cutthroat *Oncorhynchus clarki lewisi*, wild rainbow/redband trout, and yellow perch were represented in the sample. The water temperature was 14°C at the time of sampling.

Nongame species represented 80% of the total CPUE by number and 86% of the total CPUE by weight (Appendix C). Bull trout, fall chinook salmon, hatchery rainbow, kokanee salmon, mountain whitefish, smallmouth bass, westslope cutthroat, wild rainbow/redband trout, and yellow perch represented the remainder of the total CPUE by number. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight for all gear types are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B. Catch-per-effort by species and gear type can be found in Appendix C.

Hatchery Rainbow Trout

The mean length and mean weight, captured by electrofishing, gillnetting, and trapnetting were 202 mm, 188 g, 309 mm, 283 g, and 323 mm, 323 g, respectively. The CPUE by number for electrofishing, gillnetting, and trapnetting were 35.34, 10.0, and one, respectively.

Kokanee Salmon

Two kokanee were captured in sampling efforts. The catch-per-effort by number for electrofishing and gillnetting were 0.88, and 0.5, respectively.

Additional Sampling

In addition to the above mentioned lowland lake sample, extensive sampling was conducted between March 6 and May 19 in an effort to capture bull trout as part of a cooperative project between the Department and the U.S. Bureau of Reclamation. This project included radio tagging Lucky Peak bull trout and transporting them upstream of Arrowrock Dam. The results of this project can be found in Flatter 1997.

Paddock Reservoir

Lowland Lake Sample

Sampling was conducted on April 16 and October 26, 1997. Effort for both sampling days included one h of electrofishing, two units of gillnetting, and four units of trapnetting. On April 16 the water temperature was 11°C, and had a secchi disc of 1 m.

On April 16 and October 26, a total of 217 and 439 fish were caught, respectively. Black crappie, bluegill, brown bullhead, hatchery rainbow trout, largemouth bass, and pumpkinseed were represented in the sample. Number collected, lengths and standard errors, weights and standard errors, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight for all gear types are presented in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B. Catch-per-effort by species and gear type can be found in Appendix C.

Black Crappie

The mean length, mean weight and number captured by electrofishing and trapnetting on April 16 were 68 mm, 10 g, one, and 286 mm 495 g, six, respectively. No black crappie were captured on October 26. The CPUE by number for electrofishing and trapnetting were one and 1.5, respectively.

Bluegill

Bluegill numbers are increasing in the reservoir. The CPUE for electrofishing in the October sampling was 217. Anglers also confirm an increasing bluegill population.

Hatchery Rainbow

Hatchery rainbow (excess steelhead smolts) have survived and contributed to the fishery. The CPUE by number for electrofishing and gillnetting on April 16 and October 26, 1997 were four, four and 1.1, 5.5, respectively.

Largemouth Bass

Good numbers of largemouth bass remain in Paddock. The total CPUE by number in April was 116 and in October was 95 (Appendix C). Largemouth bass was the dominant species by weight in each sample.

Quinn Pond

Electrofishing

Sampling was conducted on April 15, 1997 utilizing 0.82 h of activated electrode time. Electrofishing was conducted around the entire pond shoreline. The pond was full at the time of sampling.

A total of 140 fish was captured. Black crappie, bluegill, common carp, hatchery rainbow, largemouth bass, largescale sucker, and yellow perch were represented in the sample. The total number, lengths and standard errors, mean and standard errors for weights, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented by species in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Sawyers Pond

Electrofishing

Sampling was conducted on May 21, 1997 utilizing 0.38 h of activated electrode time. The pond was full at the time of sampling.

A total of 74 fish was captured. Bluegill, brown bullhead, common carp, largemouth bass, pumpkinseed, and yellow perch were represented in the sample. The total number, lengths and standard errors, mean and standard errors for weights, mean and standard error for condition factor, CPUE by number, CPUE by weight, and percent of the total catch by number and weight are presented by species in Appendix A. Length frequency by species, cm size group, and relative weight by cm size group can be found in Appendix B.

Bluegill, brown bullhead, common carp, largemouth bass, pumpkinseed and yellow perch represented 55.4%, 2.7%, 8.1%, 4.0%, 13.5%, and 16.2% of the total catch by number.

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- Allen, D.B., T.B. Holubetz, and B.J. Flatter. 1995. Federal Aid in Fish Restoration. Regional Fisheries Management Investigations. Job Performance Report. Project F-71-R-17. Idaho Department of Fish and Game, Boise.
- Flatter, B.J. 1998. Life history and population status of migratory bull trout *Salvelinus confluentus* in Arrowrock Reservoir, Idaho. Final Report submitted to U.S. Bureau of Reclamation, Pacific Northwest Region. Agreement No. 1425-6-FC-10-02170. Project 98-7. Idaho Department of Fish and Game, Boise.

TABLES

Table 1. Units of sampling effort by geartype¹ and body of water, 1997.

Stream Name	Date	AN	EF	GN	HSGN	SGN	TN
Arrowrock Reservoir	1/02/97				18		
Arrowrock Reservoir	1/5/97				12		
Arrowrock Reservoir	1/7/97				14		
Arrowrock Reservoir	1/11/97				13		
Arrowrock Reservoir	3/1/97				11		
Arrowrock Reservoir	3/7/97				12		
Arrowrock Reservoir	3/11/97				16		
Arrowrock Reservoir	3/25/97				14.5		
Arrowrock Reservoir	3/26/97				12		5
Arrowrock Reservoir	3/28/97				10.5		5
Arrowrock Reservoir	3/31/97				9.5		8
Arrowrock Reservoir	4/1/97				6		8
Arrowrock Reservoir	4/2/97				11		8
Arrowrock Reservoir	4/3/97				10		8
Arrowrock Reservoir	4/4/97				6		8
Arrowrock Reservoir	4/7/97				57		8
Arrowrock Reservoir	4/8/97				6		8
Arrowrock Reservoir	4/9/97				8		8
Arrowrock Reservoir	4/10/97				12		
Arrowrock Reservoir	4/18/97				14		
Arrowrock Reservoir	4/21/97				4		13
Arrowrock Reservoir	4/22/97				10		5
Arrowrock Reservoir	4/23/97						5
Arrowrock Reservoir	4/24/97				7.5		5
Arrowrock Reservoir	4/25/97				15		5
Arrowrock Reservoir	4/28/97				12		5
Arrowrock Reservoir	4/29/97				10		5
Arrowrock Reservoir	4/30/97						5
Arrowrock Reservoir	5/1/97				8		5
Arrowrock Reservoir	5/2/97				8		5
Beech Pond	5/8/97		0.7778				
Blacks Creek Reservoir	6/9/97		0.5				
Blackstone Reservoir	11/17/97		0.53	2			4
C.J. Strike Reservoir	5/28/97		1.3564	4			4
Caldwell Pond #01 (City Pond)	5/20/97		0.3889				
Caldwell Pond #02	5/20/97		0.3542				
Caldwell Pond #03	5/20/97		0.3056				
Crane Falls Reservoir	5/27/97		1.017				
Deadwood Reservoir	5/29/97				66	4	42
Deadwood Reservoir	6/10/97				25		24
Deadwood Reservoir	10/9/97			2			
Duff Lane Pond	5/22/97		0.3889				
Emmett Airport Pond	5/21/97		0.2917				

Table 1. (continued)

Stream Name	Date	AN	EF	GN	HSGN	SGN	TN
Indian Creek Reservoir	4/22/97		0.9336				
Indian Creek Reservoir	6/9/97		1				
Lake Lowell	5/7/97		1.1428				
Lake Lowell	5/10/97	1					
Lake Lowell	5/14/97		1.1389				
Lake Lowell	7/10/97		1				
Lake Lowell	11/3/97		1				
Lucky Peak Reservoir	3/6/97				16		
Lucky Peak Reservoir	3/12/97				10		
Lucky Peak Reservoir	3/18/97				22		
Lucky Peak Reservoir	3/19/97				20		
Lucky Peak Reservoir	3/20/97				22		
Lucky Peak Reservoir	4/15/97				16		
Lucky Peak Reservoir	4/17/97				6		
Lucky Peak Reservoir	5/6/97				14		5
Lucky Peak Reservoir	5/7/97				18		
Lucky Peak Reservoir	5/8/97				18		
Lucky Peak Reservoir	5/9/97				6.5		
Lucky Peak Reservoir	5/12/97				4		
Lucky Peak Reservoir	5/13/97		1.132	2	4		4
Lucky Peak Reservoir	5/14/97					2	
Lucky Peak Reservoir	5/19/97				6		
Paddock Reservoir	4/16/97		1	2			4
Paddock Reservoir	10/26/97		0.93	2			4
Quinn Pond	4/15/97		0.8214				
Sawyers Pond	5/21/97		0.3889				

¹ Units of effort: AN = h of angling; EF = h of activated electrode time while electrofishing; GN = one floating and one sinking gill net set overnight; HSGN = h of sinking gill net sampling; SGN = one sinking gill net set overnight; TN = total number of trap nets set overnight.

Appendix A. Number of fish collected, minimum and maximum length, mean length, weight, condition factor, standard errors, catch-per-unit-effort (CPUE) and percent of total by number and weight for fish collected during sampling, 1997.

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
ARROWROCK RES														
1/2/97														
Sinking Gill Net														
	Bull trout	11	302	494	379	19.84	494.09	105.68	0.79	0.04	0.61	0.30	84.62	76.71
	Hatchery rainbow	2	279	334	307	27.50	275.00	75.00	0.93	0.01	0.33	0.09	15.38	23.29
	Total	13									0.94	0.39		
1/5/97														
Sinking Gill Net														
	Bull trout	2	414	650	532	118.00	1802.50	1307.50	0.92	0.22	0.17	0.30	22.22	14.74
	Fall chinook salmon	6	282	310	296	4.20	229.17	15.94	0.88	0.03	0.50	0.11	66.67	5.62
	Mountain whitefish	1	436	436	436		590.00		0.71		2.75	1.62	11.11	79.63
	Total	9									3.42	2.04		
1/7/97														
Sinking Gill Net														
	Bull trout	2	459	485	472	13.00	987.50	62.50	0.94	0.02	0.14	0.14	100.00	100.00
	Total	2									0.14	0.14		
1/11/97														
Sinking Gill Net														
	Bull trout	2	412	435	424	11.50	615.00	15.00	0.81	0.05	0.15	0.09	100.00	100.00
	Total	2									0.15	0.09		
3/1/97														
Sinking Gill Net														
	Bull trout	1	441	441	441		700.00		0.82		0.09	0.06	100.00	100.00
	Total	1									0.09	0.06		
3/7/97														
Sinking Gill Net														
	Bull trout	4	332	550	421	46.04	746.25	326.51	0.83	0.07	0.33	0.25	100.00	100.00
	Total	4									0.33	0.25		
3/11/97														
Sinking Gill Net														
	Bull trout	3	315	355	334	11.57	278.33	33.71	0.74	0.03	0.19	0.05	100.00	100.00
	Total	3									0.19	0.05		
3/25/97														
Sinking Gill Net														
	Bull trout	5	410	676	533	55.75	1746.00	564.50	0.95	0.07	0.34	0.60	100.00	100.00
	Total	5									0.34	0.64		

Appendix. A. (continued)

<i>Water</i>	<i>Species</i>	<i>Total Collected</i>	<i>Min Length (mm)</i>	<i>Max Length (mm)</i>	<i>Mean Length (mm)</i>	<i>SE Length</i>	<i>Mean Weight (g)</i>	<i>SE Weight</i>	<i>Mean CondFact</i>	<i>SE CondFact</i>	<i>CPUE (Number)</i>	<i>CPUE (Weight kg)</i>	<i>Percent (Number)</i>	<i>Percent (Weight)</i>
	3/26/97													
	Sinking Gill Net													
Bull trout		18	329	504	401	11.82	552.78	53.61	0.82	0.01	1.50	0.83	100.00	100.00
Total		18									1.50	0.83		
	Trap Net													
Bull trout		22	270	600	438	16.43	816.14	113.01	0.86	0.02	4.40	3.58	100.00	100.00
Total		22									4.40	3.58		
	3/28/97													
	Trap Net													
Bull trout		10	145	435	353	27.70	423.89	49.60	0.77	0.02	2.00	0.76	100.00	100.00
Total		10									2.00	0.76		
	3/31/97													
	Sinking Gill Net													
Bull trout		5	305	360	331	9.83	318.00	33.82	0.86	0.02	0.53	0.17	100.00	100.00
Total		5									0.53	0.17		
	Trap Net													
Bull trout		11	273	375	337	9.74	338.18	31.07	0.85	0.02	1.38	0.47	100.00	100.00
Total		11									1.38	0.47		
	4/1/97													
	Sinking Gill Net													
Bull trout		12	305	490	419	15.15	712.92	84.41	0.92	0.03	2.00	1.44	100.00	100.00
Total		12									2.00	1.44		
	Trap Net													
Bull trout		20	321	659	452	22.33	982.40	164.95	0.91	0.03	2.50	2.45	100.00	100.00
Total		20									2.50	2.45		
	4/2/97													
	Sinking Gill Net													
Bull trout		4	318	485	387	35.23	510.00	156.10	0.80	0.02	0.36	0.19	100.00	100.00
Total		4									0.36	0.19		
	Trap Net													
Bull trout		5	254	452	379	33.84	504.00	70.47	1.03	0.26	0.63	0.32	100.00	100.00
Total		5									0.63	0.32		
	4/3/97													
	Trap Net													
Bull trout		14	290	445	376	11.84	445.00	42.84	0.80	0.02	1.75	0.78	100.00	100.00
Total		14									1.75	0.78		
	4/4/97													
	Sinking Gill Net													
Bull trout		11	337	580	409	19.85	695.45	159.11	0.90	0.03	1.83	1.27	100.00	100.00
Total		11									1.83	1.27		
	Trap Net													

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)	
08	Bull trout	9	310	570	407	26.71	626.11	137.08	0.84	0.01	1.13	0.71	100.00	100.00	
	Total	9									1.13	0.71			
		4/7/97													
		Sinking Gill Net													
	Bull trout	2	326	446	386	60.00	520.00	240.00	0.83	0.02	0.04	0.02	100.00	100.00	
	Total	2									0.04	0.02			
		Trap Net													
	Bull trout	8	284	432	374	17.03	482.50	58.49	0.89	0.02	1.00	0.48	100.00	100.00	
	Total	8									1.00	0.48			
		4/8/97													
		Sinking Gill Net													
	Bull trout	2	290	334	312	22.00	245.00	55.00	0.79	0.01	0.33	0.08	100.00	100.00	
	Total	2									0.33	0.08			
		Trap Net													
	Bull trout	3	363	414	392	15.13	500.00	45.83	0.83	0.02	0.38	0.19	100.00	100.00	
	Total	3									0.38	0.19			
	4/9/97														
	Sinking Gill Net														
Bull trout	4	300	415	363	23.84	400.00	71.76	0.81	0.02	0.50	0.20	100.00	100.00		
Total	4									0.50	0.20				
	Trap Net														
Bull trout	4	393	566	453	38.64	900.00	278.21	0.89	0.04	0.50	0.45	100.00	100.00		
Total	4									0.50	0.45				
	4/10/97														
	Sinking Gill Net														
Bull trout	5	293	566	422	51.67	822.00	278.34	0.92	0.01	0.42	0.34	100.00	100.00		
Total	5									0.42	0.34				
	4/18/97														
	Sinking Gill Net														
Bull trout	14	303	610	407	28.27	790.00	202.87	0.91	0.04	1.00	0.79	100.00	100.00		
Total	14									1.00	0.79				
	4/21/97														
	Trap Net														
Bull trout	9	301	456	362	18.46	436.67	71.80	0.86	0.02	0.69	0.30	100.00	100.00		
Total	9									0.69	0.30				
	4/22/97														
	Sinking Gill Net														
Bull trout	1	385	385	385		480.00		0.84			0.10	0.05	100.00	100.00	
Total	1										0.10	0.05			

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
	Trap Net													
	Bull trout	3	315	370	345	16.02	363.33	57.83	0.87	0.02	0.60	0.22	100.00	100.00
	Total	3									0.60	0.22		
	4/23/97													
	Trap Net													
	Bull trout	4	306	750	460	99.26	411.75	78.91	0.62	0.17	0.80	0.33	100.00	100.00
	Total	4									0.80	0.33		
	4/24/97													
	Sinking Gill Net													
	Bull trout	5	305	583	381	53.86	642.00	320.86	0.87	0.03	0.67	0.43	100.00	100.00
	Total	5									0.67	0.43		
	Trap Net													
	Bull trout	5	299	431	353	23.91	392.00	87.66	0.83	0.02	1.00	0.39	100.00	100.00
	Total	5									1.00	0.39		
	4/25/97													
	Sinking Gill Net													
	Bull trout	1	190	190	190		50.00		0.73		0.07	0.00	100.00	100.00
	Total	1									0.07	0.00		
	Trap Net													
	Bull trout	8	264	442	370	24.26	393.13	85.17	0.67	0.05	1.60	0.63	100.00	100.00
	Total	8									1.60	0.63		
	4/28/97													
	Sinking Gill Net													
	Bull trout	4	337	474	404	28.88	592.50	137.56	0.84	0.04	0.33	0.20	100.00	100.00
	Total	4									0.33	0.20		
	Trap Net													
	Bull trout	10	287	442	342	16.14	338.00	51.51	0.79	0.01	2.00	0.68	100.00	100.00
	Total	10									2.00	0.68		
	4/29/97													
	Sinking Gill Net													
	Bull trout	1	326	326	326		280.00		0.81		0.10	0.03	100.00	100.00
	Total	1									0.10	0.03		
	Trap Net													
	Bull trout	9	335	445	387	13.06	475.56	54.11	0.79	0.01	1.80	0.86	100.00	100.00
	Total	9									1.80	0.86		
	4/30/97													
	Trap Net													
	Bull trout	4	310	355	332	11.90	302.50	30.38	0.82	0.01	0.80	0.24	100.00	100.00
	Total	4									0.80	0.24		

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
	5/1/97													
	Sinking Gill Net													
	Bull trout	1	470	470	470		840.00		0.81		0.13	0.11	100.00	100.00
	Total	1									0.13	0.11		
	Trap Net													
	Bull trout	1	393	393	393		500.00		0.82		0.20	0.10	100.00	100.00
	Total	1									0.20	0.10		
	5/2/97													
	Sinking Gill Net													
	Bull trout	5	296	439	375	26.45	452.00	87.19	0.81	0.02	0.63	0.28	100.00	100.00
	Total	5									0.63	0.28		
	Trap Net													
	Bull trout	2	290	395	343	52.50	347.50	157.50	0.80	0.02	0.40	0.14	100.00	100.00
	Total	2									0.40	0.14		
	BEACH'S POND													
	5/8/97													
	Electrofishing													
	Bluegill	164	50	186	110	2.49	35.89	3.40	2.37	0.06	210.85	8.47	55.41	55.30
	Largemouth bass	105	121	327	150	2.87	45.88	4.62	1.29	0.02	135.00	5.82	35.47	37.99
	Pumpkinseed	27	85	130	106	2.24	30.00	1.98	2.48	0.12	34.71	1.03	9.12	6.71
	Total	296									380.56	15.31		
	BLACKS CREEK RES													
	6/9/97													
	Electrofishing													
	White crappie	276	42	286	106	2.57	64.45	7.65	1.27	0.03	840.00	20.30	100.00	100.00
	Total	276									840.00	20.30		
	BLACKSTONE RES													
	11/17/97													
	Electrofishing													
	Brown bullhead	1	260	260	260		250.00		1.42		1.89	0.47	12.50	17.87
	Largemouth bass	7	65	285	225	27.87	191.67	18.74	1.20	0.04	13.21	2.17	87.50	82.13
	Total	8									15.09	2.64		
	Gill Net													
	Bridgelip sucker	15	210	400	298	14.25	311.33	45.62	1.07	0.03	7.50	2.34	39.47	31.37
	Brown bullhead	2	305	360	333	27.50	565.00	135.00	1.51	0.01	1.00	0.56	5.26	7.59
	Lahontan cutthroat	1	360	360	360		465.00		1.00		0.50	0.23	2.63	3.12
	Largemouth bass	7	150	260	233	14.49	157.14	18.65	1.22	0.07	3.50	0.54	18.42	7.31

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)	
	Redside shiner	2	140	165	153	12.50	30.00	10.00	0.81	0.08	1.00	0.03	5.26	0.40	
	Wild rainbow/redband	11	310	460	386	12.92	678.18	76.03	1.12	0.02	5.50	3.74	28.95	50.20	
	Total	38									19.00	7.44			
	Trap Net														
	Brown bullhead	2	180	215	198	17.50	92.50	17.50	1.20	0.09	0.50	0.05	22.22	13.75	
	Largemouth bass	6	160	245	200	11.90	95.83	16.90	1.13	0.03	1.50	0.15	66.67	43.69	
	Wild rainbow/redband	1	370	370	370		585.00		1.15		0.25	0.14	11.11	42.56	
	Total	9									2.25	0.34			
	C J STRIKE RES														
	5/28/97														
	Electrofishing														
	Black crappie	11	105	223	183	14.35	123.00	18.44	1.59	0.04	8.11	0.89	2.50	1.07	
	Bluegill	88	45	206	146	3.50	90.62	4.92	2.33	0.04	64.88	5.44	20.00	6.53	
	Bridgelip sucker	21	186	365	261	10.49	225.29	24.77	1.05	0.03	15.48	2.98	4.77	3.58	
	Brown bullhead	1	284	284	284		400.00		1.75		0.74	0.29	0.23	0.35	
	Channel catfish	2	605	660	633	27.50	3650.00	690.00	1.42	0.09	1.47	5.23	0.45	6.28	
	Chiselmouth	1	305	305	305						0.74	0.26	0.23	0.31	
	Common carp	5	480	780	661	50.90	4068.00	723.10	1.36	0.08	3.69	15.00	1.14	18.01	
	Hatchery rainbow	2	165	374	270	104.50	310.00	260.00	1.10	0.01	1.47	0.46	0.45	0.55	
	Largemouth bass	14	155	525	355	30.23	840.00	195.80	1.35	0.05	10.32	8.67	3.18	10.41	
	Largescale sucker	65	100	555	298	14.55	475.82	59.40	1.06	0.02	47.92	19.53	14.77	23.46	
	Mountain whitefish	1	75	75	75						0.74		0.23		
	Northern squawfish	3	85	155	132	23.33	40.00		1.07		2.21	0.06	0.68	0.07	
	Pumpkinseed	1	110	110	110		30.00		2.25		0.74	0.02	0.23	0.03	
	Smallmouth bass	220	70	421	211	4.52	172.73	8.78	1.27	0.04	162.19	24.05	50.00	28.88	
	Warmouth sunfish	2	122	140	131	9.00	50.00	0.00	2.29	0.47	1.47	0.07	0.45	0.09	
	White crappie	2	215	230	223	7.50	135.00	15.00	1.22	0.01	1.47	0.23	0.45	0.28	
	Yellow perch	1	215	215	215		100.00		1.01		0.74	0.08	0.23	0.10	
	Total	440									324.39	83.26			
	Gill Net														
	Black crappie	5	205	235	218	6.12	150.00	20.74	1.40	0.08	1.25	0.20	1.79	0.27	
	Bridgelip sucker	1	295	295	295		250.00		0.97		8.50	2.13	0.36	2.93	
	Brown bullhead	1	257	257	257		360.00		2.12		0.25	0.09	0.36	0.12	
	Channel catfish	56	187	680	497	16.25	1848.57	133.13	1.26	0.02	14.00	25.93	20.00	35.71	
	Chiselmouth	5	225	335	276	19.89	270.00	58.82	1.23	0.14	4.25	1.15	1.79	1.58	
	Common carp	1	615	615	615		2900.00		1.25		0.25	0.72	0.36	1.00	
	Hatchery rainbow	6	250	413	313	25.92	376.67	120.71	1.08	0.11	1.50	0.56	2.14	0.78	
	Largescale sucker	30	206	545	374	13.62	595.67	66.54	1.01	0.02	44.75	27.10	10.71	37.31	

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)	
	Northern squawfish	10	190	610	357	47.97	755.00	285.51	1.02	0.03	9.00	6.79	3.57	9.36	
	Pearmouth	1	221	221	221		120.00		1.11		2.00	0.24	0.36	0.33	
	Smallmouth bass	16	157	410	258	16.45	269.38	60.77	1.28	0.06	4.00	1.05	5.71	1.45	
	White crappie	117	204	350	240	1.76	192.74	4.47	1.39	0.02	29.25	5.71	41.79	7.86	
	Yellow perch	31	162	274	221	4.28	122.26	8.75	1.11	0.06	7.75	0.95	11.07	1.30	
	Total	280									126.75	72.62			
	Trap Net														
	Black crappie	32	185	235	208	1.83	143.44	3.23	1.61	0.05	8.00	1.14	39.51	30.25	
	Bluegill	3	167	190	182	7.36	156.67	23.33	2.57	0.10	0.75	0.11	3.70	2.89	
	Chiselmouth	3	204	345	267	41.45	240.00	83.27	1.36	0.50	0.75	0.18	3.70	4.76	
	Smallmouth bass	1	255	255	255		170.00		1.03		0.25	0.05	1.23	1.24	
	White crappie	40	202	342	249	3.52	233.25	12.12	1.48	0.03	10.00	2.25	49.38	59.55	
	Yellow perch	2	155	231	193	38.00	105.00	45.00	1.41	0.20	0.50	0.05	2.47	1.31	
	Total	81									20.25	3.78			
	CALDWELL POND #01(CITY POND)														
	5/20/97														
	Electrofishing														
	Black crappie	1	230	230	230		150.00		1.23		2.57	0.39	0.52	0.56	
	Bluegill	95	38	197	120	1.86	25.50	3.12	1.06	0.08	244.28	4.20	49.48	6.12	
	Brown bullhead	2	262	274	268	6.00	300.00	20.00	1.56	0.00	5.14	1.54	1.04	2.24	
	Channel catfish	1	504	504	504		1440.00		1.12		2.57	3.70	0.52	5.39	
	Common carp	1	670	670	670		4090.00		1.36		2.57	10.52	0.52	15.30	
	Hatchery rainbow	1	230	230	230		110.00		0.90		2.57	0.28	0.52	0.41	
	Largemouth bass	74	75	585	215	12.23	296.13	64.59	1.09	0.05	190.28	47.60	38.54	69.25	
	Pumpkinseed	17	105	135	116	1.81	16.67	4.94	0.87	0.17	43.71	0.50	8.85	0.73	
	Total	192									493.70	68.74			
	CALDWELL POND #02														
	5/20/97														
	Electrofishing														
	Black crappie	2	102	213	158	55.50	100.00		1.03		5.65	0.28	1.20	0.26	
	Bluegill	68	50	176	115	3.47	48.48	5.08	1.73	0.07	191.98	5.76	40.96	5.30	
	Brown bullhead	1	302	302	302		400.00		1.45		2.82	1.13	0.60	1.04	
	Common carp	2	840	860	850	10.00	9400.00	400.00	1.53	0.12	5.65	53.08	1.20	48.83	
	Hatchery rainbow	3	264	308	279	14.50	180.00	30.55	0.81	0.03	8.47	1.52	1.81	1.40	
	Largemouth bass	89	112	530	221	6.86	188.30	36.37	1.24	0.02	251.27	46.90	53.61	43.14	
	Pumpkinseed	1	96	96	96		10.00		1.13		2.82	0.03	0.60	0.03	
	Total	166									468.66	108.71			

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
CALDWELL POND #03														
5/20/97														
Electrofishing														
	Bluegill	99	30	208	118	3.38	75.25	7.60	2.44	0.09	323.95	15.63	73.33	10.46
	Common carp	8	582	715	609	15.60	3340.00	523.27	1.42	0.08	26.18	87.43	5.93	58.51
	Hatchery rainbow	7	217	273	232	7.41	164.29	31.84	1.32	0.27	22.91	3.76	5.19	2.52
	Largemouth bass	21	72	505	307	23.35	651.00	138.75	1.52	0.03	68.72	42.60	15.56	28.51
	Total	135									441.75	149.43		
CRANE FALLS RES														
5/27/97														
Electrofishing														
	Bluegill	70	50	180	107	3.40	45.45	6.62	1.98	0.10	68.83	2.04	26.72	3.28
	Hatchery rainbow	1	280	280	280		240.00		1.09		0.98	0.24	0.38	0.38
	Largemouth bass	93	70	440	315	11.58	631.41	38.48	1.39	0.04	91.45	52.77	35.50	85.00
	Pumpkinseed	94	86	200	146	2.16	78.39	3.33	2.30	0.04	92.43	6.94	35.88	11.18
	Yellow perch	4	90	200	154	23.00	100.00		1.25		3.93	0.10	1.53	0.16
	Total	262									257.62	62.08		
DEADWOOD RES														
5/29/97														
Sinking Gill Net														
	Atlantic salmon	2	333	385	359	26.00	325.00	60.00	0.70	0.02	0.03	0.01	1.96	0.99
	Hatchery rainbow	3	250	325	280	23.02	196.00	52.00	0.86	0.04	0.05	0.01	2.94	0.92
	Kokanee salmon	1	321	321	321						0.02		0.98	
	Mountain whitefish	70	208	396	285	5.91	217.03	21.02	0.89	0.05	3.64	0.80	68.63	81.58
	Westslope cutthroat	10	195	380	308	24.84	285.00	59.92	0.89	0.02	0.18	0.06	9.80	5.70
	Wild rainbow/redband	16	206	385	331	14.11	382.00	31.44	0.88	0.04	0.32	0.11	15.69	10.81
	Total	102									4.23	0.98		
Set Sinking Gill Net														
	Atlantic salmon	1	330	330	330		238.00		0.66		0.25	0.06	1.11	0.50
	Bull trout	1	355	355	355		440.00		0.98		0.25	0.11	1.11	0.87
	Hatchery rainbow	6	270	340	302	10.66	249.00	23.88	0.90	0.04	2.00	0.51	6.67	4.01
	Kokanee salmon	4	265	356	326	20.70	297.50	46.34	0.84	0.01	1.00	0.30	4.44	2.35
	Mountain whitefish	63	200	402	298	6.42	250.17	16.29	0.87	0.02	37.75	9.50	70.00	75.08
	Westslope cutthroat	1	355	355	355		400.00		0.89		2.50	1.00	1.11	7.90
	Wild rainbow/redband	14	180	380	328	15.82	317.14	33.50	0.84	0.02	3.50	1.18	15.56	9.29
	Total	90									47.25	12.66		
Trap Net														

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)	
	Atlantic salmon	1	380	380	380						0.02	0.01	0.62	1.02	
	Bull trout	1	342	342	342		370.00		0.92		0.02	0.01	0.62	0.98	
	Hatchery rainbow	10	273	365	311	9.59	263.00	24.19	0.94	0.03	0.24	0.05	6.21	5.34	
	Longnose dace	2	95	125	110	15.00	0.00	0.00	0.00	0.00	0.05	0.00	1.24	0.00	
	Mountain whitefish	27	124	420	276	15.90	282.00	56.12	0.91	0.02	1.10	0.22	16.77	24.33	
	Rainbow X cutthroat	5	285	380	331	18.70	360.00		0.90		0.12	0.01	3.11	0.96	
	Redside shiner	21	75	130	103	3.09	7.67	0.33	1.03	0.05	1.31	0.00	13.04	0.43	
	Speckled dace	16	76	112	102	2.24					0.38		9.94		
	Westslope cutthroat	6	115	262	149	23.25	12.50	2.50	0.75	0.11	0.14	0.00	3.73	0.09	
	Wild rainbow/redband	72	105	400	323	8.54	330.81	24.78	0.94	0.05	1.86	0.60	44.72	66.84	
	Total	161									5.24	0.90			
	6/10/97														
	Sinking Gill Net														
	Kokanee salmon	1	310	310	310						0.04		1.23		
	Mountain whitefish	76	215	390	290	4.96					4.68		93.83		
	Westslope cutthroat	2	340	340	340	0.00					0.08		2.47		
	Wild rainbow/redband	2	350	350	350	0.00					0.08		2.47		
	Total	81									4.88				
	Trap Net														
	Bull trout	1	250	250	250		150.00		0.96		0.04	0.01	1.85	100.00	
	Gerrard rainbow	2	440	560	500	60.00					0.08		3.70		
	Mountain whitefish	31	80	335	254	11.97					1.71		57.41		
	Redside shiner	12	70	125	97	4.82					4.83		22.22		
	Speckled dace	4	100	100	100	0.00					0.58		7.41		
	Wild rainbow/redband	4	256	350	303	20.48					0.17		7.41		
	Total	54									7.42	0.01			
	10/9/97														
	Gill Net														
	Fall chinook salmon	21	230	510	352	17.58	535.57	97.06	0.99	0.03	10.50	5.62	9.91	20.29	
	Hatchery rainbow	5	215	260	232	8.31	127.80	12.18	1.03	0.10	2.50	0.32	2.36	1.15	
	Kokanee salmon	75	170	400	247	6.67	160.15	12.90	0.96	0.09	37.50	6.01	35.38	21.67	
	Mountain whitefish	84	175	395	313	5.43	315.85	19.35	0.97	0.01	42.00	12.87	39.62	46.44	
	Rainbow X cutthroat	1	400	400	400		508.00		0.79		0.50	0.25	0.47	0.92	
	Westslope cutthroat	18	210	370	280	12.02	205.59	28.91	0.88	0.01	9.00	1.90	8.49	6.84	
	Wild rainbow/redband	8	160	355	258	29.35	186.25	52.55	0.87	0.02	4.00	0.75	3.77	2.69	
	Total	212									106.00	27.71			

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Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
DUFFY LANE P														
5/22/97														
Electrofishing														
	Bluegill	35	44	107	70	2.33	20.00		1.63		90.00	0.05	38.04	0.19
	Brown bullhead	1	337	337	337		650.00		1.70		2.57	1.67	1.09	6.10
	Hatchery rainbow	21	219	306	258	6.10	175.50	15.85	0.98	0.03	54.00	9.57	22.83	34.90
	Largemouth bass	35	72	346	220	12.64	184.41	23.67	1.35	0.06	90.00	16.12	38.04	58.82
	Total	92									236.56	27.41		
EMMETT AIRPORT P														
5/21/97														
Electrofishing														
	Black crappie	1	235	235	235		200.00		1.54		3.43	0.69	1.20	1.61
	Bluegill	21	38	215	68	10.20	240.00	20.00	2.75	0.13	71.99	1.65	25.30	3.85
	Brown bullhead	1	271	271	271		400.00		2.01		3.43	1.37	1.20	3.21
	Largemouth bass	39	68	357	261	14.05	303.06	24.10	1.36	0.08	133.70	37.54	46.99	87.88
	Pumpkinseed	21	42	165	89	8.17	71.67	14.00	2.67	0.13	71.99	1.47	25.30	3.45
	Total	83									284.54	42.72		
INDIAN CREEK RES														
4/22/97														
Electrofishing														
	Bluegill	45	35	218	154	6.09	134.44	13.69	2.73	0.08	48.20	6.19	7.88	8.23
	Largemouth bass	526	75	482	200	1.44	129.97	15.80	1.43	0.06	563.41	69.04	92.12	91.77
	Total	571									611.61	75.23		
6/9/97														
Electrofishing														
	Bluegill	12	32	200	99	19.20	260.00	40.00	3.61	0.14	75.00	3.25	16.00	6.60
	Largemouth bass	63	90	480	212	7.74	147.43	6.66	1.83	0.13	330.00	46.00	84.00	93.40
	Total	75									405.00	49.25		
LAKE LOWELL														
5/7/97														
Electrofishing														
	Brown bullhead	3	195	203	199	2.33	110.00	10.00	1.42	0.08	2.63	0.30	1.71	0.16
	Channel catfish	1	555	555	555		1600.00		0.94		0.88	1.40	0.57	0.77
	Common carp	18	225	560	393	28.65	928.33	190.00	1.36	0.05	68.25	43.19	10.29	23.60
	Largemouth bass	9	60	198	109	17.55	50.00	10.00	1.11	0.08	7.88	0.09	5.14	0.05
	Largescale sucker	76	90	525	417	11.55	756.51	62.27	0.97	0.01	180.26	135.10	43.43	73.83
	Smallmouth bass	32	84	312	167	13.31	113.13	25.96	0.95	0.06	28.00	2.38	18.29	1.30
	Yellow perch	36	60	197	109	7.35	50.42	8.13	1.01	0.06	31.50	0.53	20.57	0.29
	Total	175									319.39	182.98		

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
	5/10/97													
	Angling													
	Largemouth bass	283	310	530	392	2.93	1209.82	55.60	1.80	0.03	283.00	315.86	90.42	93.33
	Smallmouth bass	30	301	471	369	8.08	856.67	96.34	1.59	0.03	30.00	22.59	9.58	6.67
	Total	313									313.00	338.45		
	5/14/97													
	Electrofishing													
	Black crappie	2	193	198	196	2.50	140.00	30.00	1.86	0.33	1.76	0.25	1.16	0.34
	Bluegill	11	40	186	91	12.69	110.00	90.00	2.62	0.49	9.66	0.23	6.36	0.32
	Bridgelip sucker	1	409	409	409		700.00		1.02		0.88	0.61	0.58	0.85
	Brown bullhead	22	185	298	228	8.47	170.45	19.79	1.38	0.07	19.32	3.29	12.72	4.57
	Common carp	27	236	672	463	18.36	1383.70	133.25	1.31	0.05	23.71	32.80	15.61	45.56
	Largemouth bass	28	70	450	175	18.81	203.89	66.32	1.37	0.12	24.59	3.22	16.18	4.48
	Largescale sucker	41	100	525	294	19.44	399.74	65.27	1.12	0.14	79.90	29.64	23.70	41.17
	Smallmouth bass	10	122	300	193	20.76	184.29	48.35	1.87	0.64	8.78	1.13	5.78	1.57
	Yellow perch	31	55	285	106	8.78	81.67	21.44	3.24	0.92	27.22	0.81	17.92	1.13
	Total	173									195.80	71.99		
	11/13/97													
	Electrofishing													
	Black crappie	1	142	142	142		50.00		1.75		1.00	0.05	0.45	0.07
	Bluegill	44	50	173	98	4.47	26.61	4.19	1.50	0.07	49.00	0.87	20.00	1.28
	Common carp	8	440	505	480	7.44	1305.00	69.22	1.22	0.06	10.00	13.03	3.64	19.15
	Lahontan cutthroat	1	355	355	355		490.00		1.10		1.00	0.49	0.45	0.72
	Largemouth bass	38	75	300	136	10.96	87.53	32.32	1.02	0.09	46.00	2.03	17.27	2.99
	Largescale sucker	38	135	550	451	18.24	826.94	111.95	0.86	0.02	63.00	47.40	17.27	69.68
	Smallmouth bass	74	70	255	141	5.29	56.63	5.35	1.12	0.03	98.00	4.03	33.64	5.93
	Yellow perch	16	75	175	100	6.86	49.00	11.00	1.02	0.10	20.00	0.12	7.27	0.18
	Total	220									288.00	68.02		
	LUCKY PEAK RES													
	3/6/97													
	Sinking Gill Net													
	Fall chinook salmon	5	250	280	270	5.24	196.00	9.80	1.00	0.04	0.75	0.15	10.42	3.41
	Largescale sucker	12	355	490	390	11.19	629.17	65.08	1.03	0.05	2.63	1.65	25.00	38.29
	Northern squawfish	31	290	365	331	3.39	352.90	12.18	0.97	0.02	7.13	2.51	64.58	58.30
	Total	48									10.50	4.31		
	3/12/97													
	Sinking Gill Net													
	Bridgelip sucker	2	330	375	353	22.50	420.00	80.00	0.95	0.00	0.40	0.17	3.64	3.41

Appendix. A. (continued)

06

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)
	Bull trout	8	294	640	428	40.34	876.25	286.36	0.90	0.03	0.44	0.39	100.00	100.00
	Total	8									0.44	0.39		
	5/8/97													
	Sinking Gill Net													
	Bull trout	14	291	660	458	33.05	1116.79	280.24	0.90	0.03	0.78	0.87	100.00	100.00
	Total	14									0.78	0.87		
	5/9/97													
	Sinking Gill Net													
	Bull trout	2	398	464	431	33.00	792.50	202.50	0.97	0.03	0.31	0.24	100.00	100.00
	Total	2									0.31	0.24		
	5/12/97													
	Sinking Gill Net													
	Bull trout	6	323	528	413	31.61	695.00	145.73	0.93	0.04	1.50	1.04	100.00	100.00
	Total	6									1.50	1.04		
	5/13/97													
	Electrofishing													
	Bridgelip sucker	17	150	370	202	11.80	109.09	29.74	1.00	0.05	20.32	1.65	8.67	2.96
	Bull trout	1	290	290	290		200.00		0.82		0.88	0.18	0.51	0.32
	Chiselmouth	11	130	300	195	17.50	118.33	49.10	0.97	0.07	32.69	2.16	5.61	3.89
	Fall chinook salmon	1	270	270	270		150.00		0.76		0.88	0.14	0.51	0.25
	Hatchery rainbow	40	80	375	202	14.82	188.39	25.61	1.86	0.77	35.34	4.90	20.41	8.80
	Kokanee salmon	1	100	100	100						0.88		0.51	
	Largescale sucker	60	160	460	259	12.05	307.82	44.63	0.99	0.02	101.59	23.58	30.61	42.40
	Mountain whitefish	5	305	340	328	6.82	286.67	18.56	0.82	0.03	4.42	1.36	2.55	2.45
	Northern squawfish	34	150	575	311	16.30	420.00	79.54	0.91	0.02	48.59	17.04	17.35	30.64
	Smallmouth bass	24	100	365	238	9.94	219.55	29.13	1.39	0.04	21.20	4.43	12.24	7.96
	Yellow perch	2	120	220	170	50.00	107.50	87.50	1.49	0.34	1.77	0.19	1.02	0.34
	Total	196									268.55	55.63		
	Gill Net													
	Bull trout	1	457	457	457		930.00		0.97		0.50	0.47	0.53	0.60
	Chiselmouth	17	161	310	247	14.48	167.06	25.14	0.94	0.03	8.50	1.43	9.09	1.84
	Fall chinook salmon	4	277	415	334	31.87	335.00	87.03	0.84	0.05	2.00	0.67	2.14	0.86
	Hatchery rainbow	20	213	376	309	7.39	282.50	19.75	0.92	0.02	10.00	2.80	10.70	3.60
	Kokanee salmon	1	352	352	352		390.00		0.89		0.50	0.20	0.53	0.25
	Largescale sucker	71	185	491	362	9.49	521.69	37.48	0.94	0.01	88.50	46.25	37.97	59.44
	Mountain whitefish	2	345	350	348	2.50	325.00	25.00	0.78	0.08	1.00	0.31	1.07	0.40
	Northern squawfish	58	204	700	348	9.44	438.97	58.57	0.89	0.01	54.00	23.64	31.02	30.39
	Redside shiner	2	140	141	141	0.50	30.00	0.00	1.08	0.01	1.00	0.03	1.07	0.04
	Smallmouth bass	3	272	385	317	34.59	503.33	219.87	1.38	0.14	1.50	0.76	1.60	0.97

Appendix. A. (continued)

Water	Species	Total Collected	Min Length (mm)	Max Length (mm)	Mean Length (mm)	SE Length	Mean Weight (g)	SE Weight	Mean CondFact	SE CondFact	CPUE (Number)	CPUE (Weight kg)	Percent (Number)	Percent (Weight)	
	Westslope cutthroat	3	392	400	396	2.33	516.67	16.67	0.84	0.04	1.50	0.78	1.60	1.00	
	Wild rainbow/redband	4	145	320	264	40.95	215.00	68.13	0.98	0.04	2.00	0.43	2.14	0.56	
	Yellow perch	1	190	190	190		100.00		1.46		0.50	0.05	0.53	0.06	
	Total	187									171.50	77.81			
	Sinking Gill Net														
	Bull trout	9	305	541	463	21.69	935.56	104.76	0.90	0.02	2.25	2.11	100.00	100.00	
	Total	9									2.25	2.11			
	Trap Net														
	Bridgelip sucker	8	305	380	345	9.56	360.38	28.41	0.87	0.03	2.00	0.72	21.62	23.94	
	Chiselmouth	1	160	160	160						0.25	0.01	2.70	0.38	
	Hatchery rainbow	4	293	350	323	14.36	322.50	54.52	0.93	0.05	1.00	0.33	10.81	11.09	
	Largescale sucker	7	344	445	387	14.31	547.14	58.34	0.93	0.02	1.75	1.00	18.92	33.39	
	Mountain whitefish	3	325	339	330	4.37	323.33	23.33	0.90	0.07	0.75	0.24	8.11	8.03	
	Northern squawfish	3	336	351	344	4.41	356.67	20.28	0.87	0.05	0.75	0.28	8.11	9.26	
	Wild rainbow/redband	3	138	380	264	70.06	233.33	124.68	1.00	0.09	0.75	0.17	8.11	5.81	
	Yellow perch	8	155	257	206	12.46	121.25	18.07	1.35	0.07	2.00	0.24	21.62	8.11	
	Total	37									9.25	2.99			
	5/14/97														
	Set Sinking Gill Net														
	Bridgelip sucker	1	184	184	184		40.00		0.64		0.50	0.02	6.67	0.71	
	Largescale sucker	7	193	458	359	34.13	460.00	98.00	0.84	0.03	3.50	1.61	46.67	56.99	
	Northern squawfish	6	335	360	350	3.60	393.33	14.06	0.92	0.02	3.00	1.18	40.00	41.77	
	Yellow perch	1	160	160	160		30.00		0.73		0.50	0.01	6.67	0.53	
	Total	15									7.50	2.83			
	5/19/97														
	Sinking Gill Net														
	Bull trout	7	379	541	463	20.61	890.00	136.03	0.85	0.03	1.17	1.04	100.00	100.00	
	Total	7									1.17	1.04			
	PADDOCK RES														
	4/16/97														
	Electrofishing														
	Black crappie	1	68	68	68		10.00		3.18		1.00	0.01	0.77	0.02	
	Bluegill	29	42	261	146	8.89	125.67	21.98	2.74	0.08	29.00	3.48	22.31	7.07	
	Brown bullhead	3	218	327	289	35.38	565.33	155.82	2.24	0.15	3.00	1.70	2.31	3.45	
	Hatchery rainbow	4	169	250	196	18.37	99.75	30.52	1.22	0.03	4.00	0.40	3.08	0.81	
	Largemouth bass	93	67	380	299	5.70	464.62	16.26	1.62	0.03	93.00	43.63	71.54	88.65	
	Total	130									130.00	49.21			
	Gill Net														

Appendix. A. (continued)

<i>Water</i>	<i>Species</i>	<i>Total Collected</i>	<i>Min Length (mm)</i>	<i>Max Length (mm)</i>	<i>Mean Length (mm)</i>	<i>SE Length</i>	<i>Mean Weight (g)</i>	<i>SE Weight</i>	<i>Mean CondFact</i>	<i>SE CondFact</i>	<i>CPUE (Number)</i>	<i>CPUE (Weight kg)</i>	<i>Percent (Number)</i>	<i>Percent (Weight)</i>	
	Hatchery rainbow	8	184	272	224	12.30	153.75	23.59	1.30	0.05	4.00	0.61	19.51	6.86	
	Largemouth bass	33	288	343	313	2.58	503.58	13.63	1.63	0.02	16.50	8.35	80.49	93.14	
	Total	41									20.50	8.97			
	Trap Net														
	Black crappie	6	250	303	286	7.51	494.67	30.25	2.12	0.06	1.50	0.74	13.04	15.52	
	Bluegill	14	128	263	170	9.27	176.86	32.32	3.21	0.05	3.50	0.60	30.43	12.49	
	Brown bullhead	2	300	350	325	25.00	736.00	104.00	2.15	0.19	0.50	0.37	4.35	7.70	
	Largemouth bass	24	264	332	313	3.10	533.17	15.98	1.74	0.03	6.00	3.07	52.17	64.29	
	Total	46									11.50	4.78			
	10/26/97														
	Electrofishing														
	Bluegill	202	30	218	104	3.36	68.31	5.42	2.27	0.05	217.20	9.24	68.47	27.89	
	Hatchery rainbow	1	365	365	365		755.00		1.55		1.08	0.73	0.34	2.20	
	Largemouth bass	86	68	375	213	9.38	253.95	28.52	1.73	0.15	92.47	22.68	29.15	68.49	
	Pumpkinseed	6	105	172	138	11.60	73.00	20.91	2.33	0.25	6.45	0.47	2.03	1.42	
	Total	295									317.20	33.12			
	Gill Net														
	Brown bullhead	87	205	345	278	3.35	472.75	17.23	2.11	0.02	43.50	20.32	86.14	82.24	
	Hatchery rainbow	11	350	403	366	5.06	648.00	39.26	1.30	0.03	5.50	3.56	10.89	14.41	
	Largemouth bass	3	312	333	324	6.24	623.00	39.02	1.83	0.03	1.50	0.83	2.97	3.35	
	Total	101									50.50	24.71			
	Trap Net														
	Bluegill	5	50	200	127	31.02	175.00	54.08	2.96	0.27	1.25	0.12	11.63	2.34	
	Brown bullhead	35	195	345	291	5.66	502.46	24.74	1.99	0.03	8.75	4.52	81.40	89.15	
	Largemouth bass	3	322	325	323	0.88	561.67	15.90	1.66	0.06	0.75	0.43	6.98	8.50	
	Total	43									10.75	5.07			
	QUINN POND														
	4/15/97														
	Electrofishing														
	Black crappie	1	150	150	150		40.00		1.19		1.22	0.05	0.71	0.14	
	Bluegill	87	73	163	123	2.09	41.60	2.30	1.98	0.03	105.92	4.23	62.14	12.14	
	Common carp	8	118	495	420	43.52	1131.88	166.23	1.40	0.12	9.74	11.02	5.71	31.65	
	Hatchery rainbow	26	210	270	234	2.57	144.00	4.90	1.13	0.02	31.65	3.47	18.57	9.96	
	Largemouth bass	9	140	490	370	34.47	1154.67	302.25	1.71	0.16	10.96	12.65	6.43	36.33	
	Largescale sucker	1	580	580	580		2550.00		1.31		1.22	3.10	0.71	8.91	
	Yellow perch	8	117	1440	302	162.68	30.75	2.30	1.03	0.17	9.74	0.30	5.71	0.86	
	Total	140									170.44	34.83			

Appendix. A. (continued)

<i>Water</i>	<i>Species</i>	<i>Total Collected</i>	<i>Min Length (mm)</i>	<i>Max Length (mm)</i>	<i>Mean Length (mm)</i>	<i>SE Length</i>	<i>Mean Weight (g)</i>	<i>SE Weight</i>	<i>Mean CondFact</i>	<i>SE CondFact</i>	<i>CPUE (Number)</i>	<i>CPUE (Weight kg)</i>	<i>Percent (Number)</i>	<i>Percent (Weight)</i>
	SAWYERS P 5/21/97 Electrofishing													
	Bluegill	41	55	137	86	2.30	30.00	10.00	1.42	0.14	105.43	0.15	55.41	0.28
	Brown bullhead	2	26	226	126	100.00	235.00	55.00	825.77	824.21	5.14	1.21	2.70	2.21
	Common carp	6	436	562	481	17.79	1340.00	155.43	1.18	0.02	15.43	20.67	8.11	37.85
	Largemouth bass	3	526	550	537	7.00	4200.00	152.75	2.71	0.02	7.71	32.40	4.05	59.32
	Pumpkinseed	10	75	125	88	4.47	40.00		2.05		25.71	0.10	13.51	0.19
	Yellow perch	12	72	139	107	5.17	10.00	0.00	0.48	0.10	30.86	0.08	16.22	0.14
	Total	74									190.28	54.62		

Appendix B. Length frequency for all species captured, all gear types combined by water and date.

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
ARROWROCK RES											
	1/2/97	Bull trout	30					1			
			32					2			
			33					2			
			35					1			
			39					1			
			41					1			
			44					1			
			46					1			
			49					1			
		Hatchery rainbow	27					1			82.90
			33					1			83.08
	1/5/97	Bull trout	41					1			
			65					1			
		Fall chinook salmon	28					1			
			29					2			
			30					2			
			31					1			
		Mountain whitefish	43					1			69.72
	1/7/97	Bull trout	45					1			
			48					1			
	1/11/97	Bull trout	41					1			
			43					1			
	3/1/97	Bull trout	44					1			
	3/7/97	Bull trout	33					1			
			39					1			
			40					1			
			55					1			
	3/11/97	Bull trout	31					1			
			33					1			
			35					1			
	3/25/97	Bull trout	41					2			
			53					1			

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			64					1			
			67					1			
	3/26/97	Bull trout									
			27						1		
			31						1		
			32					2			
			33					1			
			35						1		
			37					1	1		
			38					4			
			39					3	1		
			40						2		
			41					2	1		
			42						1		
			43						3		
			44					2	1		
			45						1		
			46						2		
			47					2			
			48						1		
			49						2		
			50					1			
			55						1		
			56						1		
			60						1		
	3/28/97	Bull trout									
			14						1		
			28						1		
			30						1		
			36						1		
			38						1		
			39						1		
			40						2		
			41						1		
			43						1		
	3/31/97	Bull trout									
			27						1		
			30					1	2		
			31					1			
			32						1		
			33					1			
			34					1	2		
			35						2		
			36					1	1		
			37						2		
	4/1/97	Bull trout									
			30						1		
			32						2		
			33						1		
			34						1		
			36					1			

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
				37					1		
				39					1		
				40				3	2		
				41				1			
				42				1	1		
				43				1	4		
				44				1			
				46					1		
				47				1			
				48				1			
				49				1			
				52					1		
				55					1		
				57					1		
				59					1		
				60					1		
				65					1		
	4/2/97	Bull trout									
				25					1		
				31				1			
				36				1			
				37					1		
				38				1			
				39					1		
				42					1		
				45					1		
				48				1			
	4/3/97	Bull trout									
				29					1		
				31					1		
				33					1		
				35					2		
				37					2		
				39					2		
				40					3		
				43					1		
				44					1		
	4/4/97	Bull trout									
				31					1		
				33				1	1		
				34					1		
				35				1			
				36				1			
				37				1	1		
				38				1			
				39				2			
				40					1		
				43				2	2		
				44				1			
				46					1		
				57					1		
				58				1			

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
	4/7/97	Bull trout	28						1		
			32					1			
			33						1		
			36						1		
			37						1		
			38						1		
			40						1		
			41						1		
			43						1		
			44					1			
	4/8/97	Bull trout	29					1			
			33					1			
			36						1		
			39						1		
			41						1		
	4/9/97	Bull trout	30					1			
			36					1			
			37					1			
			39						1		
			41					1			
			42						1		
			43						1		
			56						1		
	4/10/97	Bull trout	29					1			
			32					1			
			42					1			
			50					1			
			56					1			
	4/18/97	Bull trout	30					2			
			31					2			
			34					2			
			36					1			
			38					1			
			39					1			
			43					1			
			44					1			
			56					1			
			58					1			
			61					1			
	4/21/97	Bull trout	30						1		
			31						2		
			33						1		
			35						1		
			37						1		
			40						1		
			42						1		
			45						1		

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
	4/22/97	Bull trout	31						1		
			34						1		
			37						1		
			38				1				
	4/23/97	Bull trout	30						1		
			36						1		
			41						1		
			75						1		
	4/24/97	Bull trout	29						1		
			30				3				
			31						1		
			34						1		
			37						1		
			40				1				
			43						1		
			58				1				
	4/25/97	Bull trout	19				1				
			26						1		
			31						1		
			33						2		
			42						1		
			43						2		
			44						1		
	4/28/97	Bull trout	28						1		
			29						1		
			30						1		
			31						1		
			33				1		2		
			34						1		
			38				1		1		
			40						1		
			42				1				
			44						1		
			47				1				
	4/29/97	Bull trout	32				1				
			33						1		
			34						1		
			36						2		
			37						1		
			40						1		
			41						1		
			43						1		
			44						1		
	4/30/97	Bull trout	31						2		
			35						2		

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
	5/1/97	Bull trout	39						1		
			47					1			
	5/2/97	Bull trout	29					1	1		
			34					1			
			37					1			
			39						1		
			42					1			
			43					1			
BEECH POND	5/8/97	Bluegill	5		3						280.23
			6		2						138.21
			7		11						131.45
			8		26						143.04
			9		40						124.35
			10		23						126.64
			11		13						114.52
			12		5						121.40
			13		7						135.28
			14		3						121.95
			15		5						128.32
			16		18						110.14
			17		4						132.71
			18		4						114.22
		Largemouth bass	12		9						103.07
			13		25						104.13
			14		27						105.54
			15		24						103.79
			16		13						102.65
			17		4						94.81
			28		1						
			29		1						
			32		1						67.00
		Pumpkinseed	8		1						
			9		7						
			10		7						
			11		8						
			12		3						
			13		1						
BLACKS CREEK RES	6/9/97	White crappie	4		1						
			5		4						
			6		13						
			7		46						
			8		59						
			9		47						91.19
			10		26						93.97
			11		28						98.25
			12		8						108.02
			13		1						95.18
			15		3						111.58

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			16		6						116.44
			17		7						118.65
			18		5						121.50
			19		4						114.92
			20		7						119.41
			21		6						121.21
			22		2						130.40
			27		2						107.46
			28		1						105.50
BLACKSTONE RES											
11/17/97											
		Bridgelip sucker									
			21			1					
			22			1					
			23			1					
			25			2					
			28			1					
			29			1					
			30			1					
			31			1					
			32			1					
			33			1					
			34			1					
			36			2					
			40			1					
		Brown bullhead									
			18						1		
			21						1		
			26		1						
			30			1					
			36			1					
		Lahontan cutthroat									
			36			1					
		Largemouth bass									
			6		1						
			15			1					130.21
			16						1		86.71
			18						1		79.40
			20						2		89.83
			21						1		90.10
			22			1					84.43
			23		3						92.58
			24			2			1		84.34
			25		1	2					82.57
			26			1					77.80
			27		1						82.18
			28		1						77.91
		Redside shiner									
			14			1					
			16			1					
		Wild rainbow/redband									
			31			1					86.73
			34			1					103.06
			36			2					95.97
			37			1			1		98.97
			38			1					96.29
			41			3					99.53
			42			1					97.90
			46			1					105.67

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
C J STRIKE RES											
5/28/97											
Black crappie											
				10	1						
				11	1						123.19
				12	1						138.12
				18	1				1		145.88
				19					2		126.30
				20	2	2			16		103.68
				21	2	1			8		103.53
				22	3				3		90.30
				23		2			2		93.57
Bluegill											
				4	2						
				5	2						
				6	1						
				9	2						
				10	1						45.51
				11	4						121.48
				12	6						130.39
				13	11						119.13
				14	11						105.58
				15	11						109.89
				16	16				1		109.55
				17	10						116.10
				18	5				1		110.26
				19	5				1		118.94
				20	1						110.57
Bridgelip sucker											
				18	1						
				20	1						
				21	4						
				22	2						
				25	3						
				26	2						
				27	1						
				28	2						
				29		1					
				30	1						
				31	1						
				32	2						
				36	1						
Brown bullhead											
				25		1					
				28	1						
Channel catfish											
				18		1					114.70
				21		3					129.65
				22		2					95.81
				25		1					144.98
				38		1					153.41
				41		1					122.49
				44		2					139.62
				45		2					121.03

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			46			1					139.50
			47			1					121.83
			48			3					130.32
			49			5					133.00
			50			1					140.83
			51			2					110.38
			52			2					131.59
			53			1					123.94
			54			3					119.44
			55			5					119.26
			56			5					125.19
			57			2					106.05
			58			2					131.49
			59			2					119.03
			60		1	2					117.65
			61			2					133.60
			62			2					139.92
			66		1						138.90
			67			1					105.63
			68			1					134.51
		Chiselmouth									
			20						1		
			22			1					
			24			1					
			25						1		
			27			1					
			30		1	1					
			33			1					
			34						1		
		Common carp									
			48		1						
			61			1					
			64		1						
			68		1						
			72		1						
			78		1						
		Hatchery rainbow									
			16		1						105.49
			25			2					98.53
			28			1					108.65
			33			1					65.25
			34			1					88.03
			37		1						95.31
			41			1					116.82
		Largemouth bass									
			15		1						85.29
			21		2						81.76
			30		1						98.57
			32		2						90.35
			34		1						93.06
			35		1						83.40
			37		1						89.36
			42		1						95.64
			44		1						101.73
			46		1						110.79
			52		2						95.15

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight	
		Largescale sucker										
			10		2							
			11		1							
			12		1							
			13		2							
			14		4							
			16		2							
			19		1							
			20		3	1						
			21		5							
			22		1							
			23		1							
			24		3	2						
			25		1							
			28		1							
			29		2							
			30		1							
			31		2	1						
			32		3	1						
			33		2	4						
			34		6	3						
			35		2	3						
			36		1							
			37		3	1						
			38		1	1						
			39		3							
			40		3	4						
			41			3						
			44			1						
			45		1	1						
			46			1						
			47		2							
			48			2						
			49		2							
			53		1							
			54			1						
			55		2							
		Mountain whitefish										
			7		1							
		Northern pikeminnow										
			8		1							
			15		2							
			19		1							
			23			1						
			24			1						
			27			1						
			28			1						
			30			1						
			34			1						
			53			1						
			56			1						
			61			1						
		Peamouth										
			22			1						
		Pumpkinseed										
			11		1							
		Smallmouth bass										
			7		1							
			8		6							

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			9		10						
			10		7						
			11		5						
			12		2						85.53
			13		5						114.04
			14		9						146.54
			15		6	1					93.81
			16		8						92.46
			17		8						87.87
			18		6						94.21
			19		12						92.48
			20		11	2					84.16
			21		15	2					89.66
			22		18	3					90.84
			23		9	1					85.87
			24		15						90.10
			25		7				1		83.12
			26		10						88.78
			27		12	2					80.80
			28		12	1					86.06
			29		10						79.60
			30		8	1					88.10
			31		4						92.97
			33		1						83.60
			34			2					91.47
			35		1						89.38
			36		1						90.62
			41			1					100.22
			42		1						85.04
		Warmouth sunfish									
			12		1						
			14		1						
		White crappie									
			20		5	8					108.73
			21		1	8					101.36
			22			12			2		99.07
			23		1	30			8		101.56
			24			34			14		98.53
			25			17			5		101.04
			26			5			4		103.04
			27			4			3		96.01
			28						1		97.99
			29						1		93.63
			30			1					101.80
			34						1		93.21
			35			1					33.64
		Yellow perch									
			15						1		122.85
			16			1					71.01
			18			1					56.81
			19			2					91.61
			20			3					76.80
			21		1	7					83.36
			22			7					76.78
			23			3			1		78.39
			24			4					90.78
			25			1					80.99
			27			2					40.04

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
CALDWELL POND											
5/20/97											
		Black crappie									
			23		1						78.36
		Bluegill									
			3		1						
			7		1						
			8		3						
			9		5						
			10		4						
			11		20						49.21
			12		38						52.18
			13		17						47.62
			14		4						72.92
			15		1						74.22
			19		1						23.31
		Brown bullhead									
			26		1						
			27		1						
		Channel catfish									
			50		1						110.50
		Common carp									
			67		1						
		Hatchery rainbow									
			23		1						82.94
		Largemouth bass									
			7		1						
			8		1						
			10		1						
			11		3						58.56
			12		3						
			13		5						45.83
			14		4						79.13
			15		5						65.07
			16		4						65.48
			17		4						83.04
			18		6						65.99
			19		8						85.90
			20		5						83.94
			21		2						82.69
			22		4						81.58
			24		1						89.86
			25		1						81.43
			26		1						82.90
			27		3						105.26
			28		1						100.47
			30		1						93.99
			34		1						110.26
			35		1						95.95
			39		1						95.04
			41		1						111.65
			43		1						119.81
			44		1						95.18
			45		1						105.20
			46		1						103.97
			54		1						82.56
			58		1						61.63

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
		Pumpkinseed	10		3						
			11		8						
			12		5						
			13		1						
CALDWELL POND #02	5/20/97										
		Black crappie	10		1						
			21		1						67.54
		Bluegill	5		2						
			6		2						
			7		3						
			8		6						115.71
			9		6						
			10		9						88.23
			11		12						68.92
			12		11						91.48
			14		6						94.34
			15		6						84.11
			16		3						90.05
			17		2						99.04
		Brown bullhead	30		1						
		Common carp	84		1						
			86		1						
		Hatchery rainbow	26		2						73.33
			30		1						73.23
		Largemouth bass	11		2						83.81
			12		2						107.69
			13		3						118.54
			14		6						108.96
			15		3						110.03
			16		4						88.86
			17		4						99.95
			18		1						92.64
			19		3						104.15
			20		4						96.79
			21		9						85.22
			22		10						87.59
			23		6						88.37
			24		7						87.30
			25		9						87.30
			26		4						93.59
			27		3						86.87
			28		3						80.23
			29		1						75.15
			30		1						91.05
			31		1						94.51
			33		1						88.24
			46		1						105.12
			53		1						120.76
		Pumpkinseed	9		1						

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
CALDWELL POND #03											
5/20/97											
Bluegill											
			3		2						
			4		2						
			5		1						
			6		4						
			7		6						
			8		4						
			9		2						145.58
			10		7						110.42
			11		16						139.81
			12		21						116.87
			13		12						108.90
			14		7						118.15
			15		7						136.03
			16		2						117.07
			17		3						105.64
			18		1						136.40
			19		1						114.55
			20		1						97.35
Common carp											
			58		3						
			59		2						
			60		1						
			61		1						
			71		1						
Hatchery rainbow											
			21		2						98.55
			22		2						182.93
			23		2						98.16
			27		1						88.67
Largemouth bass											
			7		1						
			11		1						127.35
			24		2						104.32
			25		3						104.89
			27		1						101.65
			28		3						107.97
			29		1						90.10
			30		1						98.43
			32		1						102.43
			33		1						104.81
			38		1						108.01
			40		1						109.92
			41		2						104.85
			49		1						111.84
			50		1						108.87
CRANE FALLS RES											
5/27/97											
Bluegill											
			5		1						
			6		1						
			7		3						143.32
			8		13						81.25
			9		15						121.15
			10		14						87.44
			11		6						109.11
			12		4						85.37
			13		2						95.92

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
				15	3						105.77
				16	5						94.63
				17	2						104.53
				18	1						125.79
		Hatchery rainbow									
				28	1						98.38
		Largemouth bass									
				7	2						
				8	1						
				9	2						
				10	1						
				11	2						
				16	2						96.07
				17	5						98.82
				18	8						98.05
				19	2						222.74
				20	3						91.68
				22	1						97.68
				23	1						169.60
				30	1						108.45
				32	2						89.23
				35	3						86.55
				36	9						90.18
				37	6						90.71
				38	10						91.29
				39	5						92.47
				40	13						95.27
				41	6						90.87
				42	4						92.53
				43	3						85.47
				44	1						76.45
		Pumpkinseed									
				8	1						
				9	2						
				10	5						
				11	1						
				12	3						
				13	9						
				14	28						
				15	27						
				16	10						
				17	3						
				19	4						
				20	1						
		Yellow perch									
				9	1						
				16	2						
				20	1						89.88
DEADWOOD RES											
	5/29/97	Atlantic salmon									
				33			1	1			
				38				1	1		
		Bull trout									
				34					1		
				35			1				
		Hatchery rainbow									
				25				1			83.28
				26				1			71.32
				27			1		2		94.77

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			28				1		1		82.76
			29				1		2		80.82
			31				2		1		74.35
			32					1	1		81.44
			33						1		
			34				1		1		78.48
			36						1		
		Kokanee salmon									
			26				1				
			32					1			
			33				1				
			34				1				
			35				1				
		Longnose dace									
			9						1		0.00
			12						1		0.00
		Mountain whitefish									
			12						3		
			13						2		
			20				2	1			126.26
			21				1	2	1		86.88
			22				1	6	1		106.38
			23				2	7			82.60
			24				3	5	1		85.34
			25				8	7			81.79
			26				6	2			80.80
			27				5	3			80.49
			28				2	8	4		81.20
			29				2	3	2		84.75
			30				3	3	2		86.51
			31				3	3	2		83.68
			32				3	4	3		88.79
			33				4	4	1		90.19
			34				5	1	2		84.87
			35				5	6			91.45
			36				3	2	1		84.14
			37				2	1			85.66
			38				1	1	1		92.92
			39					1			91.00
			40				2				87.59
			42				1				
		Rainbow X cutthroat hybrid									
			28						1		
			29						1		
			34						1		
			35						1		
			38						1		
		Redside shiner									
			7						1		
			8						2		
			9						6		
			10						3		
			11						7		
			12						1		
			13						1		
		Speckled dace									
			7						1		
			9						3		
			10						8		
			11						4		

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
		Westslope cutthroat									
									2		
									1		
									1		
									1		
							2				
							1				
									1		
							1				
								1			
								1			
								2			
							1				
								1			
								2			
		Wild rainbow/redband									
									1		68.46
									1		177.82
									2		55.60
									2		73.49
									1		67.18
						1					80.56
								1			
								1			
								1			90.37
									1		81.53
									4		131.83
									1		89.47
									2		91.31
								1	1		80.27
									2		
									3		74.04
						1		1	5		68.49
						3		1	11		77.89
						3		4	15		76.79
						1		3	10		78.88
						2		1	4		76.63
						1		2	5		77.21
									1		73.43
									1		
6/10/97		Bull trout									
									1		
		Gerrard rainbow									
									1		
									1		
		Kokanee salmon									
								1			
		Mountain whitefish									
									1		
									1		
									1		
									1		
									2		
								1			
								2	1		
								6	1		
								5			
								7	2		
								5	1		
								7	5		

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			28					9	3		
			29					4	4		
			30					5	1		
			31					2	1		
			32					4	2		
			33					8	3		
			35					6			
			36					2			
			37					2			
			39					1			
		Redside shiner									
			7						1		
			8						4		
			10						2		
			11						4		
			12						1		
		Speckled dace									
			10						4		
		Westslope cutthroat									
			34						2		
		Wild rainbow/redband									
			25						1		
			28						1		
			32						1		
			35					2	1		
	10/9/97	Fall chinook salmon									
			23			2					
			27			1					
			28			1					
			29			1					
			30			3					
			31			1					
			32			1					
			33			1					
			34			1					
			36			1					
			39			2					
			40			1					
			42			1					
			45			1					
			46			1					
			48			1					
			51			1					
		Hatchery rainbow									
			21			2					106.03
			22			1					92.82
			24			1					85.91
			26			1					83.55
		Kokanee salmon									
			17			4					
			18			9					
			19			12					
			20			8					
			21			2					
			23			2					
			25			1					
			26			1					
			27			2					
			28			6					

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			29			9					
			30			12					
			31			5					
			40			2					
		Mountain whitefish									
			17			1					83.10
			18			1					90.16
			19			1					95.64
			20			1					78.07
			21			1					
			22			2					88.06
			25			2					79.11
			26			1					
			27			4					88.95
			28			10					90.99
			29			8					93.45
			30			9					95.73
			31			3					101.76
			32			1					
			33			7					99.42
			34			6					99.89
			35			7					99.86
			36			8					103.60
			37			7					101.61
			38			2					
			39			2					104.44
		Rainbow X cutthroat hybrid									
			40			1					
		Westslope cutthroat									
			21			1					
			22			2					
			23			1					
			25			4					
			26			2					
			29			3					
			32			2					
			35			1					
			37			2					
		Wild rainbow/redband									
			16			1					81.23
			18			1					88.62
			19			1					89.94
			20			1					75.57
			30			1					70.77
			32			1					74.92
			35			2					75.81
DUFFY LANE P											
	5/22/97	Bluegill									
			4		1						
			5		8						
			6		9						
			7		8						
			8		6						
			9		2						
			10		1						88.23
		Brown bullhead									
			33		1						

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
		Hatchery rainbow									
			21		1						70.21
			22		2						87.97
			23		2						80.37
			24		6						90.03
			25		2						97.86
			27		3						90.01
			28		1						81.08
			29		1						95.62
			30		3						95.37
		Largemouth bass									
			7		1						
			11		1						215.00
			12		3						147.41
			13		2						103.55
			14		1						115.36
			15		2						111.66
			16		2						106.86
			17		1						91.79
			18		1						76.65
			19		2						87.62
			21		1						100.57
			22		1						97.68
			26		1						85.80
			27		5						85.90
			28		4						90.67
			29		3						92.28
			30		3						87.78
			34		1						85.58
EMMETT AIRPORT P	5/21/97										
		Black crappie									
			23		1						97.23
		Bluegill									
			3		1						
			4		5						
			5		10						
			6		2						
			7		1						
			19		1						128.23
			21		1						113.40
		Brown bullhead									
			27		1						
		Largemouth bass									
			6		1						
			7		1						
			10		2						324.06
			11		1						127.35
			12		2						149.16
			13		1						112.11
			16		1						154.15
			19		1						111.37
			27		1						95.87
			28		1						85.55
			29		4						87.41
			30		11						81.21
			31		6						87.75
			32		2						87.15
			33		1						76.62
			34		1						85.39

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
		Pumpkinseed	35		2						80.05
			4		1						
			5		2						
			6		8						
			7		3						
			11		1						
			12		2						
			13		1						
			14		1						
			15		1						
			16		1						
INDIAN CREEK RES	4/22/97	Bluegill									
			3		1						
			4		1						
			10		1						93.92
			11		4						105.45
			12		9						123.89
			13		1						115.65
			14		1						161.03
			15		2						129.23
			16		3						132.41
			17		5						132.63
			18		11						139.15
			19		3						132.77
			21		3						146.70
		Largemouth bass									
			7		2						172.84
			8		2						132.50
			9		6						96.36
			10		5						262.64
			11		4						82.82
			12		1						96.48
			13		1						132.52
			14		2						87.74
			15		2						110.53
			16		7						111.47
			17		27						101.48
			18		73						101.92
			19		116						108.30
			20		100						105.89
			21		91						94.71
			22		40						108.99
			23		13						107.54
			24		16						110.61
			25		11						104.64
			27		2						95.87
			28		1						101.59
			31		2						104.44
			44		1						114.30
			48		1						110.26
6/9/97		Bluegill									
			3		1						
			4		2						
			5		1						
			6		3						
			8		1						

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
					17	1					
					18	1					157.94
					19	1					
					20	1					166.31
		Largemouth bass									
					9	1					
					10	1					295.44
					11	1					101.88
					12	2					141.41
					13	3					457.95
					16	1					127.75
					18	2					191.89
					19	9					126.53
					20	10					117.88
					21	9					120.36
					22	7					107.56
					23	7					107.93
					24	3					111.14
					25	3					106.73
					26	1					115.88
					32	1					
					45	1					
					48	1					
LAKE LOWELL											
5/7/97											
		Brown bullhead									
					19	1					
					20	2					
		Channel catfish									
					55	1					89.82
		Common carp									
					22	1					
					23	1					
					24	1					
					25	3					
					29	1					
					42	1					
					43	1					
					44	1					
					45	1					
					47	1					
					48	1					
					49	2					
					52	1					
					53	1					
					56	1					
		Largemouth bass									
					6	1					
					7	3					
					8	1					
					9	1					
					15	1					94.70
					18	1					79.40
					19	1					
		Largescale sucker									
					9	1					
					11	1					
					12	1					
					22	1					
					23	2					

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			24		1						
			25		5						
			26		1						
			28		1						
			35		1						
			40		1						
			42		2						
			43		3						
			44		8						
			45		16						
			46		7						
			47		13						
			48		4						
			49		1						
			50		2						
			51		3						
			52		1						
		Smallmouth bass									
			8		4						
			9		4						
			11		1						46.21
			12		4						57.61
			13		2						51.88
			14		1						47.98
			15		4						68.23
			16		1						50.34
			17		2						68.49
			24		1						58.71
			25		2						87.36
			26		2						92.89
			28		1						93.31
			29		1						92.02
			31		2						76.73
		Yellow perch									
			6		2						
			7		3						
			8		17						
			9		2						
			10		2						76.65
			14		1						95.09
			16		2						62.53
			17		1						58.52
			18		4						74.69
			19		2						90.77
	5/10/97										
		Largemouth bass									
			31	12							104.88
			32	14							106.84
			33	15							111.17
			34	26							113.44
			35	24							116.03
			36	18							112.60
			37	21							120.58
			38	19							117.25
			39	6							135.92
			40	13							140.93
			41	26							121.62
			42	20							122.95
			43	15							124.04
			44	12							119.10

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			45	11							124.22
			46	14							112.94
			47	6							127.47
			48	3							
			49	2						132.45	
			50	2						144.18	
			51	2							
			52	1						109.26	
			53	1						152.01	
		Smallmouth bass									
			30	2						104.73	
			31	3						102.72	
			32	3						111.73	
			34	2						105.28	
			35	3						108.93	
			36	3						109.93	
			37	2							
			38	3						108.10	
			39	1							
			40	2						104.29	
			41	2						119.92	
			43	3						118.35	
			47	1						118.08	
	5/14/97										
		Black crappie									
			19		2					124.96	
		Bluegill									
			4		2						
			5		1						
			6		1						
			9		3					118.07	
			10		2						
			12		1						
			18		1					141.03	
		Bridgelip sucker									
			40		1						
		Brown bullhead									
			18		2						
			19		5						
			20		4						
			21		2						
			23		2						
			26		1						
			27		2						
			28		2						
			29		2						
		Common carp									
			23		1						
			27		1						
			28		1						
			29		1						
			43		1						
			45		5						
			46		1						
			47		5						
			48		2						
			49		2						
			50		1						
			51		1						
			54		2						

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			55		1						
			58		1						
			67		1						
		Largemouth bass									
			7		4						
			8		3						
			9		2						
			11		1						
			14		2						80.95
			15		3						110.60
			16		2						152.66
			17		1						111.70
			18		1						119.10
			21		1						108.29
			22		2						98.51
			23		1						110.05
			24		1						87.51
			25		1						72.39
			37		1						114.27
			39		1						117.95
			45		1						15.66
		Largescale sucker									
			10		1						
			11		2						
			12		1						
			13		1						
			21		4						
			22		1						
			23		4						
			24		8						
			25		3						
			26		2						
			27		1						
			28		1						
			37		1						
			44		1						
			45		1						
			46		3						
			47		1						
			48		2						
			50		1						
			51		1						
			52		1						
		Smallmouth bass									
			12		1						
			13		1						
			14		1						
			15		1						415.43
			17		2						99.45
			18		1						59.90
			26		1						76.03
			28		1						92.31
			30		1						101.50
		Yellow perch									
			5		1						581.61
			6		1						
			7		2						
			8		12						160.10
			9		6						

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			10		2						674.67
			11		1						526.89
			16		3						119.94
			17		1						
			21		1						84.12
			28		1						62.99
	7/10/97										
		Bluegill									
			14		1						122.38
		Channel catfish									
			51		2						
			52		1						
			53		1						
			58		1						
		Chiselmouth									
			19		1						
		Common carp									
			43		1						
			46		2						
			47		1						
			49		1						
			50		1						
			51		1						
			56		1						
		Lahontan cutthroat									
			31		1						
		Largemouth bass									
			3		3						
			4		1						
			5		2						
			19		1						196.67
			22		2						117.75
			24		2						120.18
		Largescale sucker									
			15		1						
			18		1						
			28		3						
			29		4						
			30		6						
			31		3						
			32		1						
			36		1						
			37		1						
			38		1						
			39		1						
			42		1						
			43		4						
			45		3						
			46		4						
			47		4						
			48		4						
			49		8						
			50		8						
			53		1						
			54		1						
		Smallmouth bass									
			1		1						
			3		2						
			4		7						
			5		2						

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
				7	1						
				8	12						
				9	10						123.59
				10	11						128.62
				11	21						121.91
				12	19						114.50
				13	2						120.56
				14	1						122.51
				15	6						97.69
				16	6						115.32
				17	5						106.77
				18	8						95.36
				19	3						114.47
				20	3						104.74
				22	1						81.48
		Yellow perch									
				4	4						
				5	22						
				6	1						
				16	1						100.39
11/3/97		Black crappie									
				14	1						131.09
		Bluegill									
				5	6						
				6	6						
				7	1						
				9	6						83.61
				10	5						76.31
				11	10						76.12
				12	6						73.78
				13	1						81.63
				14	2						90.45
				17	1						112.09
		Common carp									
				44	1						
				46	1						
				47	1						
				48	2						
				49	1						
				50	2						
		Lahontan cutthroat									
				35	1						
		Largemouth bass									
				7	2						
				8	3						115.94
				9	10						65.40
				10	9						55.39
				12	2						74.11
				13	1						
				15	1						
				17	1						101.35
				18	1						109.22
				19	1						
				21	1						101.17
				22	1						
				24	1						
				27	2						89.02
				29	1						90.10
				30	1						90.79

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
		Largescale sucker									
			13		2						
			14		2						
			40		1						
			41		1						
			43		2						
			46		4						
			47		3						
			48		4						
			49		6						
			50		3						
			51		3						
			52		5						
			53		1						
			55		1						
		Smallmouth bass									
			7		3						
			8		7						
			9		9						46.27
			10		8						85.84
			11		2						83.68
			14		8						88.34
			15		7						83.71
			16		10						79.23
			17		6						79.09
			18		5						83.51
			19		1						78.79
			20		2						86.23
			21		2						87.85
			22		1						90.62
			23		2						90.14
			25		1						74.83
		Yellow perch									
			7		1						
			8		4						
			9		7						
			10		2						
			16		1						70.22
			17		1						83.01
LUCKY PEAK RES											
	3/6/97	Fall chinook salmon									
			25					1			
			27					3			
			28					1			
		Largescale sucker									
			35					1			
			36					3			
			37					2			
			38					2			
			39					1			
			42					2			
			49					1			
		Northern pikeminnow									
			29					1			
			30					2			
			31					3			
			32					9			
			33					8			
			35					5			
			36					3			

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
	3/12/97	Bridgelip sucker	33					1			
			37					1			
		Bull trout	45					2			
		Fall chinook salmon	28					1			
		Hatchery rainbow	27					1			91.76
		Largescale sucker	33					1			
			35					1			
			36					2			
			37					1			
			38					1			
			39					3			
			41					1			
			42					1			
			43					1			
			44					1			
		Mountain whitefish	24					1			68.00
			28					1			77.33
			29					1			46.43
			31					1			63.41
			32					3			71.43
			36					1			71.87
		Northern pikeminnow	19					1			
			31					3			
			32					3			
			33					9			
			34					6			
			35					3			
			36					1			
		Wild rainbow/redband	29					2			97.64
	3/18/97	Bull trout	43					2			
			71					2			
		Mountain whitefish	12					2			
			16					1			
			20					1			
			21					1			
			24					3			
			27					1			
			28					1			
			29					1			
			30					2			
			33					1			
			34					1			
			35					1			
	3/20/97	Bull trout	39					2			
			41					2			
			42					2			

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
	4/15/97	Bull trout	24					2			
			25					2			
			28					4			
			32					2			
			33					2			
			45					2			
			48					2			
		Smallmouth bass	46					1			96.96
	4/17/97	Bull trout	41					1			
		Smallmouth bass	44					1			106.62
	5/6/97	Bull trout	18					1			
			32					1			
			33					1			
			38					1			
			42					1			
			43					1			
	5/7/97	Bull trout	29					1			
			31					1			
			33					1			
			43					1			
			45					1			
			47					1			
			48					1			
			64					1			
	5/8/97	Bull trout	29					1			
			34					1			
			35					1			
			37					1			
			38					1			
			39					1			
			41					1			
			42					1			
			46					1			
			47					1			
			53					1			
			65					1			
			66					2			
	5/9/97	Bull trout	39					1			
			46					1			
	5/12/97	Bull trout	32					1			
			34					1			
			38					1			
			42					1			
			47					1			
			52					1			

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
	5/13/97										
		Bridgelip sucker									
			15		1						
			16		2						
			17		2						
			18		2						
			19		1						
			20		3						
			21		3						
			22		1						
			23		1						
			30						1		
			31						1		
			33						1		
			34						1		
			35						1		
			36						1		
			37		1				1		
			38						1		
		Bull trout									
			29		1						
			30					1			
			44					1			
			45			1					
			46					2			
			47					1			
			48					1			
			49					2			
			54					1			
		Chiselmouth									
			13		1						
			14		1						
			15		2						
			16		1	2			1		
			17		1	2					
			18			1					
			19		1	1					
			20			1					
			22		1						
			25		1						
			26			1					
			27		1						
			28			1					
			29			4					
			30		1	3					
			31			1					
		Fall chinook salmon									
			27		1	1					
			29			1					
			35			1					
			41			1					
		Hatchery rainbow									
			8		3						
			9		1						
			10		3						
			11		3						
			12		3						
			13		1						1178.19
			14		3						235.71
			15		1						140.40
			16		2						153.64
											156.65

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			17		1						96.17
			18		1						112.79
			21			1					66.95
			24		2						76.08
			25		2						53.87
			26		1						56.73
			27		1						80.29
			28		1						85.37
			29		2	5			1		83.99
			30		1	8			1		83.65
			31		2	1					75.01
			32		2	1					80.86
			33		1						75.15
			34			1			1		85.67
			35		2	1			1		88.31
			36			1					73.39
			37		1	1					75.57
		Kokanee salmon									
			10		1						
			35			1					
		Largescale sucker									
			16		3						
			17		2						
			18		7	2					
			19		8	2					
			20		8						
			21		7						
			22		3	1					
			23		1						
			24		1	3					
			25		1	1					
			26			2					
			27			4					
			28			2					
			29			1					
			30			1					
			32			1					
			33			1					
			34			2			1		
			35		3				1		
			36		2	5					
			37		1	7			2		
			38		5	6			1		
			39		1	8					
			40		3	4					
			41		1	3					
			42		1	1					
			43		1	1			1		
			44			3			1		
			45			3					
			46		1	2					
			47			1					
			48			2					
			49			2					
		Mountain whitefish									
			30		1						87.42
			32		1				2		91.31
			33		1				1		82.63
			34		2	1					79.81

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
		Northern pikeminnow	35		1						69.08
			15		2						
			17		2						
			19		1						
			20		3	2					
			21		2	1					
			24			1					
			28		1						
			29			2					
			30		1						
			31		2	4					
			32			5					
			33		2	16			1		
			34		4	6			1		
			35		4	7			1		
			36		1	3					
			37		2	2					
			38		4	1					
			39		1	2					
			42			1					
			44			1					
			45			1					
			46		1						
			48			1					
			51			1					
			57		1						
			70			1					
		Redside shiner									
			14			2					
		Smallmouth bass									
			10		1						
			17		1						88.54
			19		2						101.05
			21		2						98.66
			22		1						117.47
			23		3						89.70
			24		4						89.39
			25		4						110.19
			26		3						101.41
			27		1	1					87.01
			29			1					91.35
			31		1						94.18
			36		1						103.64
			38			1					114.17
		Westslope cutthroat									
			39			2					
			40			1					
		Wild rainbow/redband									
			13						1		110.10
			14						1		94.45
			27			1			1		88.86
			31			1					95.82
			32			1					78.60
			38						1		73.21
		Yellow perch									
			12		1						93.60
			15						1		102.38
			17						1		124.52
			18						1		113.69

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			19			1			1		104.31
			21						1		95.26
			22		1						128.83
			23						2		76.33
			25						1		87.97
	5/14/97										
		Bridgelip sucker									
			18				1				
		Largescale sucker									
			19				1				
			29				1				
			37				2				
			41				1				
			42				1				
			45				1				
		Northern pikeminnow									
			33				1				
			34				2				
			35				2				
			36				1				
		Yellow perch									
			16				1				55.44
	5/19/97										
		Bull trout									
			37					1			
			41					1			
			44					1			
			46					1			
			48					1			
			50					1			
			54					1			
PADDOCK RES											
	4/16/97										
		Black crappie									
			6		1						307.79
			25						1		145.46
			28						2		120.81
			29						2		120.24
			30						1		122.58
		Bluegill									
			4		2						
			9		2						140.93
			10		1						169.06
			11		1						121.56
			12		5				2		133.45
			13		2				1		134.60
			14		3				1		127.01
			15		2						145.88
			16		4				4		143.52
			17						2		151.45
			18		1						135.78
			19		3				3		150.23
			20		2						131.74
			26		1				1		120.46
		Brown bullhead									
			21		1						
			30						1		
			32		2						
			35						1		
		Hatchery rainbow									
			16		1						117.53
			17		1						108.42

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			18		1	2					123.64
			20			2					122.37
			23			1					109.94
			24			1					130.60
			25		1						110.65
			26			1					110.18
			27			1					112.11
		Largemouth bass									
			6		1						309.61
			7		1						270.60
			9		2						112.95
			10		1						94.24
			19		1						118.66
			26						1		162.25
			27		1						85.68
			28		2	1					110.55
			29		13	6					112.73
			30		24	7			9		114.12
			31		22	6			5		111.41
			32		12	6			5		114.59
			33		7	6			4		115.16
			34		5	1					109.21
			38		1						117.40
	10/26/97	Bluegill									
			3		17						
			4		16						
			5		17				2		
			6		10						
			7		6						
			8		10						122.89
			9		18						102.05
			10		19						124.03
			11		16						125.53
			12		16						127.48
			13		3						105.48
			14		10						123.03
			15		7				1		119.31
			16		11						106.58
			17		15				1		90.67
			18		5						95.09
			19		5						144.94
			20						1		155.22
			21		1						146.63
		Brown bullhead									
			19						1		
			20			1					
			21			2					
			22			2			1		
			23			4					
			24			4			1		
			25			8			4		
			26			11					
			27			9			4		
			28			14			4		
			29			11			5		
			30			6			4		
			31			7			2		
			32			1			6		
			33			3					

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			34			4			3		
		Hatchery rainbow	35			6					111.29
			36		1	2					121.66
			37			1					104.35
			38			1					126.09
			40			1					120.73
		Largemouth bass	6		1						
			7		1						
			8		2						
			9		1						1093.34
			10		3						126.16
			12		2						127.05
			13		3						126.07
			14		9						111.42
			15		7						115.66
			16		6						114.13
			17		9						117.78
			18		4						120.41
			19		4						116.54
			20		2						122.75
			21		3						213.50
			29		2						125.71
			30		3						118.99
			31		3	1					107.31
			32		10	1			3		115.78
			33		6	1					113.00
			34		1						111.37
			35		3						114.77
			37		1						106.93
		Pumpkinseed	10		1						
			11		1						
			12		1						
			14		1						
			17		2						
QUINN POND											
	4/15/97										
		Black crappie	15		1						87.30
		Bluegill	7		1						
			8		5						118.69
			9		3						97.10
			10		8						103.54
			11		19						99.88
			12		19						100.13
			13		10						106.48
			14		15						101.42
			15		5						101.44
			16		2						98.86
		Common carp	11		1						
			44		1						
			45		2						
			46		2						
			47		1						
			49		1						
		Hatchery rainbow									

Appendix B. (continued)

Water	Date	Species	CM Group	Number Caught Angling	Number Caught Electro fishing	Number Caught in Gill Nets	Number Caught Hourly Sinking Gill Nets	Number Caught in Sinking Gill Nets	Number Caught in Trap Nets	Total Caught	Relative Weight
			21		3						
			22		5						97.38
			23		9						103.55
			24		6						105.74
			25		2						
			27		1						
		Largemouth bass									
			14		1						94.41
			34		2						83.70
			35		1						99.95
			37		1						146.40
			39		1						132.62
			41		1						115.17
			48		1						132.74
			49		1						149.14
		Largescale sucker									
			58		1						
		Yellow perch									
			11		1						142.21
			13		2						74.18
			14		2						96.71
			15		2						80.25
			144		1						0.04
SAWYERS P											
	5/21/97										
		Bluegill									
			5		2						
			6		2						
			7		7						
			8		15						
			9		11						
			10		2						
			11		1						67.50
			13		1						77.75
		Brown bullhead									
			2		1						
			22		1						
		Common carp									
			43		1						
			45		1						
			46		1						
			48		2						
			56		1						
		Largemouth bass									
			52		1						173.03
			53		1						168.01
			55		1						168.83
		Pumpkinseed									
			7		2						
			8		5						
			9		2						
			12		1						
		Yellow perch									
			7		1						
			8		2						
			10		3						
			11		3						
			12		2						46.80
			13		1						29.11

Appendix C. Electrofishing, gill net, and trap net catch-per-unit-effort (CPUE) by number and weight for lowland lake sampling 1997.

WATER	DATE	SPECIES	EF CPUE (Number)	GN CPUE (Number)	TN CPUE (Number)	TOTAL CPUE (Number)	EF CPUE (Weight kg)	GN CPUE (Weight kg)	TN CPUE (Weight kg)	Total CPUE (Weight kg)
BLACKSTONE RES										
	11/17/97									
		Bridgelip sucker	0	8	0	8	0.00	2.34	0.00	2.34
		Brown bullhead	2	1	1	3	0.47	0.56	0.05	1.08
		Lahontan cutthroat	0	1	0	1	0.00	0.23	0.00	0.23
		Largemouth bass	13	4	2	18	2.17	0.54	0.15	2.86
		Redside shiner	0	1	0	1	0.00	0.03	0.00	0.03
		Wild rainbow/redband	0	6	0	6	0.00	3.74	0.14	3.88
		<i>Total</i>	<i>15</i>	<i>19</i>	<i>2</i>	<i>36</i>	<i>2.64</i>	<i>7.44</i>	<i>0.34</i>	<i>10.42</i>
C J STRIKE RES										
	5/28/97									
		Black crappie	8	1	8	17	0.89	0.20	1.14	2.23
		Bluegill	65	0	1	66	5.44	0.00	0.11	5.55
		Bridgelip sucker	15	9	0	24	2.98	2.13	0.00	5.10
		Brown bullhead	1	0	0	1	0.29	0.09	0.00	0.38
		Channel catfish	1	14	0	15	5.23	25.93	0.00	31.16
		Chiselmouth	1	4	1	6	0.26	1.15	0.18	1.59
		Common carp	4	0	0	4	15.00	0.72	0.00	15.72
		Hatchery rainbow	1	2	0	3	0.46	0.56	0.00	1.02
		Largemouth bass	10	0	0	10	8.67	0.00	0.00	8.67
		Largescale sucker	48	45	0	93	19.53	27.10	0.00	46.63
		Mountain whitefish	1	0	0	1	0.00	0.00	0.00	0.00
		Northern pikeminnow	2	9	0	11	0.06	6.79	0.00	6.85
		Peamouth	0	2	0	2	0.00	0.24	0.00	0.24
		Pumpkinseed	1	0	0	1	0.02	0.00	0.00	0.02
		Smallmouth bass	162	4	0	166	24.05	1.05	0.05	25.15
		Warmouth sunfish	1	0	0	1	0.07	0.00	0.00	0.07
		White crappie	1	29	10	41	0.23	5.71	2.25	8.19
		Yellow perch	1	8	1	9	0.08	0.95	0.05	1.08
		<i>Total</i>	<i>324</i>	<i>127</i>	<i>20</i>	<i>471</i>	<i>83.26</i>	<i>72.62</i>	<i>3.78</i>	<i>159.65</i>
LUCKY PEAK RES										
	5/13/97									
		Bridgelip sucker	20	0	2	22	1.65	0.00	0.72	2.37
		Bull trout	1	1	0	1	0.18	0.47	0.00	0.64
		Chiselmouth	33	9	0	41	2.16	1.43	0.01	3.61
		Fall chinook salmon	1	2	0	3	0.14	0.67	0.00	0.80
		Hatchery rainbow	35	10	1	46	4.90	2.80	0.33	8.03

Appendix C. (continued)

WATER	DATE	SPECIES	EF CPUE (Number)	GN CPUE (Number)	TN CPUE (Number)	TOTAL CPUE (Number)	EF CPUE (Weight kg)	GN CPUE (Weight kg)	TN CPUE (Weight kg)	Total CPUE (Weight kg)
LUCKY PEAK RES										
	5/13/97									
		Kokanee salmon	1	1	0	1	0.00	0.20	0.00	0.20
		Largescale sucker	102	89	2	192	23.58	46.25	1.00	70.83
		Mountain whitefish	4	1	1	6	1.36	0.31	0.24	1.91
		Northern pikeminnow	49	54	1	103	17.04	23.64	0.28	40.96
		Redside shiner	0	1	0	1	0.00	0.03	0.00	0.03
		Smallmouth bass	21	2	0	23	4.43	0.76	0.00	5.18
		Westslope cutthroat	0	2	0	2	0.00	0.78	0.00	0.78
		Wild rainbow/redband	0	2	1	3	0.00	0.43	0.17	0.61
		Yellow perch	2	1	2	4	0.19	0.05	0.24	0.48
		<i>Total</i>	269	172	9	449	55.63	77.81	2.99	136.43
PADDOCK RES										
	4/16/97									
		Black crappie	1	0	2	3	0.01	0.00	0.74	0.75
		Bluegill	29	0	4	33	3.48	0.00	0.60	4.08
		Brown bullhead	3	0	1	4	1.70	0.00	0.37	2.06
		Hatchery rainbow	4	4	0	8	0.40	0.61	0.00	1.01
		Largemouth bass	93	17	6	116	43.63	8.35	3.07	55.05
	10/26/97									
		Bluegill	217	0	1	218	9.24	0.00	0.12	9.36
		Brown bullhead	0	44	9	52	0.00	20.32	4.52	24.84
		Hatchery rainbow	1	6	0	7	0.73	3.56	0.00	4.29
		Largemouth bass	92	2	1	95	22.68	0.83	0.43	23.94
		Pumpkinseed	6	0	0	6	0.47	0.00	0.00	0.47
		<i>Total</i>	447	71	22	540	82.33	33.67	9.85	125.85

1997 ANNUAL PERFORMANCE REPORT

State of: Idaho

Program: Fisheries Management F-71-R-22

Project I: Surveys and Inventories

Subproject I-D: Southwest Region

Job No.: c

Title: Rivers and Streams Investigations

Contract Period: July 1, 1997 to June 30, 1998

ABSTRACT

The South Fork Boise River from the Village Access downstream to one mile below the Cow Creek Bridge was electrofished. Rainbow trout *Oncorhynchus mykiss*, bull trout *Salvelinus confluentus*, whitefish *Prosopium williamsoni*, largescale sucker *Catostomus macrochelius*, bridgelip sucker *C. columbianus*, kokanee *O. nerka kennerlyi*, northern pikeminnow *Ptychocheilus oregonensis*, dace spp. *Rhinichthys spp.*, and sculpin *Cottus spp.* were observed.

A total of 769 rainbow and six bull trout were netted. Mean length, weight, and condition factor for rainbow trout was 335 mm, 461 g, and 1.03, respectively. Mean length of bull trout was 401 mm.

The growth equation for rainbow trout was calculated to be $\text{weight} = .000027 * \text{length}^{2.83}$.

Rainbow population size was estimated to be 5,345 rainbow larger than 13 cm and 4,043 rainbow larger than 24 cm.

Three established snorkel sites were monitored on the upper North Fork Boise River. A slight increase in numbers of bull trout was documented.

Twelve snorkel sites on the South Fork Payette River were snorkeled. Fish species observed were identified to species, counted, and estimated for size.

The second year of monitoring was done on the West Fork Long Tom Creek Cooperative grazing project. Generally the stream is positively responding to reduction in stream-side grazing by moving fines downstream and increasing the amount of gravels in the substrate.

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SOUTH FORK BOISE RIVER

Methods

Electrofishing

The section of river electrofished extended from the Village access area (T1S, R8E, S15) downstream to approximately one mile below Cow Creek bridge, a distance of 9.6 km.

Electrofishing equipment included a raft, two booms (anodes) each supporting a 76 cm ring from which eight dropper electrodes were suspended, 11 m of .95 cm diameter stainless steel cable (cathode), and a Coffelt VVP-15. VVP settings used to collect fish were 400 volt and approximately 3 amp, direct current.

Trout were collected on September 22 -24, and October 6-7, 1997. During mark runs, trout collected were marked by notching the caudal fin. During recapture runs, trout were marked by notching the anal fin. All trout collected were measured to the nearest mm. Samples of collected trout >10 cm were weighed to the nearest g, and scales collected. During recapture runs, trout were examined for caudal fin marks placed on the mark runs.

All trout collected were examined for the presence of scars indicating the fish had been angler caught and released. Trout with hook scars were recorded.

Trout collected were examined for deformities in the head area. Trout with abnormalities in the head area, particularly those with dolphin shaped heads, were considered to be infected with whirling disease. Trout infected with whirling disease were recorded.

River flow during electrofishing was approximately $8.5 \text{ m}^3 \text{ sec}^{-1}$.

Population estimates and standard errors were calculated using the modified Petersen population and variance estimators (Seber, 1973, p. 60). Population estimates were calculated by pooling the number of rainbow collected for all cm size groups represented by the estimate. Population estimates were calculated for number of rainbow greater than 130 mm, and for the number of rainbow greater than 239 mm. These estimates correspond to estimates made in 1994 (Allen et al., In Press).

Results and Discussion

Species and Number Collected

Bull trout *Salvelinus confluentus*, rainbow trout *Oncorhynchus mykiss*, and kokanee *O. nerka* were collected during electrofishing. In addition, whitefish *Prosopium williamsoni*, bridgelip sucker *Catostomus columbianus*, largescale sucker *C. macrochelius*, northern pikeminnow *Ptychocheilus oregonensis*, dace spp. *Rhinichthys* spp., and sculpin spp. *Cottus* spp. were observed

but not collected. No reidside shiners *Richardsonius balteatus* were observed in 1997, even though they were observed during 1994 surveys (Allen, et al., in press).

Mean number of rainbow collected per day of electrofishing in 1997 was 149 per day of electrofishing. During 1994 electrofishing, catch per day was 291 at flows of $8.5 \text{ m}^3 \text{ sec}^{-1}$ and 199 when flows were $17 \text{ m}^3 \text{ sec}^{-1}$. Greater daily catch was related to lower flow (Allen, et al., in press). Lower daily catch in 1997 suggests a smaller trout population.

Whirling disease was judged by observation to have deformed the heads of 14.6% (112 of 769) of the rainbows examined.

Hook scars were observed on 34.6 % (265 of 769) of the rainbows examined.

Length, Weight and Condition Factor

Mean length of rainbow collected was 335 mm (SE=4). Length frequency of rainbow collected is shown in Figure 1. Mean weight of rainbow collected was 461 g (SE=13). Mean condition factor for 422 rainbow that were weighed and measured was 1.03 (SE=.006). Mean length, weight, and condition factor for rainbow collected in 1994 was 290 mm (SE=3), 325 g (SE=13), and 0.97 (SE=.006) (Allen, et al., In Press). Mean length, weight, and condition factor of rainbow collected in 1997 were significantly less than those collected in 1994 ($\alpha=.05$). Length frequency of 1994 rainbow catch is shown in Figure 1 for comparison.

Six bull trout and five kokanee were collected in 1997. Mean length of bull trout and kokanee was 401 mm and 283 mm, respectively.

Population and Biomass Estimates

Numbers of rainbow trout in the marked sample, the recapture sample, and the number of recaptures by cm size group are given in Table 1. The total number of rainbow in the marked sample, recapture sample, and the number of recaptures were 449, 296, and 22, respectively. A total of 22 rainbow recaptures, ranging from 19 to 47, cm were collected.

The pooled population estimates for rainbow trout greater than 13 cm and greater than 24 cm were 5,345 (SE=975) and 4,043 (SE=761), respectively. Pooled population estimates 13 cm and greater and 24 cm and greater rainbow in 1994 were 8,093 (SE=1132) and 4,898 (SE= 811). Population estimates for 1994 and 1997 are not significantly different ($\alpha=.05$).

Although population estimates are not statistically different, two factors suggest that the rainbow population in 1997 was considerably smaller than in 1994.

First, the number of rainbow collected per day of electrofishing in 1997 (149) was 51% of the number collected per day at $8.5 \text{ m}^3 \text{ sec}^{-1}$ flow (291) in 1994. Electrofishing equipment and methods were similar in 1994 and 1997. Daily electrofishing catch would be expected to be equal in 1994 and 1997 if rainbow populations were similar.

Second, comparison of Figure 1 in general shows larger catch of rainbow between 14 and 33 cm, approximately equal catch of 34 to 39 cm, and smaller catch of greater than 400 mm

rainbow in 1994 than 1997. Overall, more rainbows were collected in 1994 than 1997, with the difference largely being the number of small rainbow collected. The observation of fewer small and more large rainbows in 1997 relative to 1994 is supported by the significantly larger mean length and weight of rainbow collected in 1997.

The mean weight of rainbow greater than 13 cm in the sample was 461 g. Using mean river width of 37 m (SE=2.4) (Allen et al., in press), biomass of rainbow in the 9.6 km section was estimated to be 2,464 kg or 6.9k g/ha. Rainbow biomass in 1994 was estimated to be 7.4 k g/ha.

Relative to 1994, the 1997 rainbow population is composed of a greater number of large rainbow, but fewer rainbow overall. Having a larger percentage of the total rainbow biomass in large fish appears beneficial to anglers. Since total rainbow biomass in 1997 is little changed from 1994, it could be the change in total number of trout is merely a redistribution of trout biomass among different size classes of trout.

The reduction in the number of smaller rainbow combined with whirling disease shaped heads on 14.6% of the rainbow could be cause for concern. If whirling disease is currently affecting survival of small rainbow, the population of large rainbow may be affected in the future.

Recommendations

1. Estimate rainbow population size approximately every three to four years. Monitor frequency of whirling disease affected rainbow trout in the population. Monitor frequency of hook scars on rainbow trout in the population.
2. Conduct creel survey to estimate angler use and catch from Anderson Ranch Dam downstream to Danskin Bridge.

NORTH FORK BOISE RIVER

Methods

Three established transects in the upper North Fork Boise River were monitored by snorkeling. Two divers moved upstream counting and identifying fish species and their sizes.

Results

There was a slight upward trend in the number of bull trout identified. Transect data including length frequencies of fish encountered, substrate composition, and transect lengths and width were entered into the regional database and are presented in Appendix A.

SOUTH FORK PAYETTE RIVER

Methods

Twelve transects were snorkeled on the South Fork Payette River during August 1997. The transects were floated by two divers in a downstream direction. River size and flow are too great to snorkel upstream. Fish were identified to species, enumerated, sizes estimated and recorded. Length of the float section was measured.

Results

Data collected was entered into the regional database. Summary tables of transect data are provided in Appendix B.

LONG TOM CREEK

Introduction

A fencing and habitat improvement cooperative project was developed between the Department, Boise Valley Fly Fishermen, Idaho Soil Conservation Service, Elmore County Soil Conservation District, Natural Resource Conservation Service, and private landowners Steve and Jim Percy of Mountain Home. The objective of the project was to construct 3.5 miles of pasture fence, splitting one large pasture into four smaller pastures. Two off-stream water sites were also developed as part of the project.

The objective of the project was improve riparian area conditions to benefit fish, while maintaining an economically viable cattle ranching operation on private land.

Methods

Department reservists and volunteers, Boise Valley Fly Fishermen constructed 3.5 miles of barb wire and electric fence during April and May 1996. Additionally, Boise Valley Fly Fishermen constructed a grazing enclosure on West Fork Long Tom Creek during late April.

Eleven permanent transects were established both inside and outside the grazing enclosure. Each transect was marked with rebar rods on both sides of the stream. Width between rebar rods, wetted channel width, depth, habitat type, and substrate composition were measured

at each transect in November 1996. Photo points were established and photos taken during November 1996 and November of 1997.

Eleven experimental transects were established outside the grazing exclosure (E1-11) and 11 control transects (C1-11) were established inside the grazing exclosure. Habitat measurements were made on November 11, 1997 in all 22 transects.

Results

The control transects (outside exclosure) changed by becoming wider, vegetation increased, average percentage of sand decreased, and average percent of gravel increased. In the exclosure the channel widened, vegetation slightly decreased, the amount of sand increased, and the amount of gravel increased (Table 2). The exclosure lies downstream of the control site and we may be observing a movement of fines downstream.

Recommendations

1. Make habitat measurements inside and outside the grazing exclosure annually to document change in channel morphology in the presence and absence of grazing. Take pictures at photo points as part of the monitoring.
2. Electrofish sections of West Fork Long Tom Creek to determine if transplanted redband trout successfully spawned during the spring of 1997 and 1998. If spawning was unsuccessful, transplant additional redbands from Syrup Creek.

LITERATURE CITED

Allen, D.B., S.P. Yundt and B.J. Flatter. (in press). Federal Aid in Fish Restoration. Regional Fisheries Management Investigations. Job Performance Report. Project F-71-R-19. Idaho Department of Fish and Game, Boise.

FIGURES

South Fork Boise River Rainbow Trout

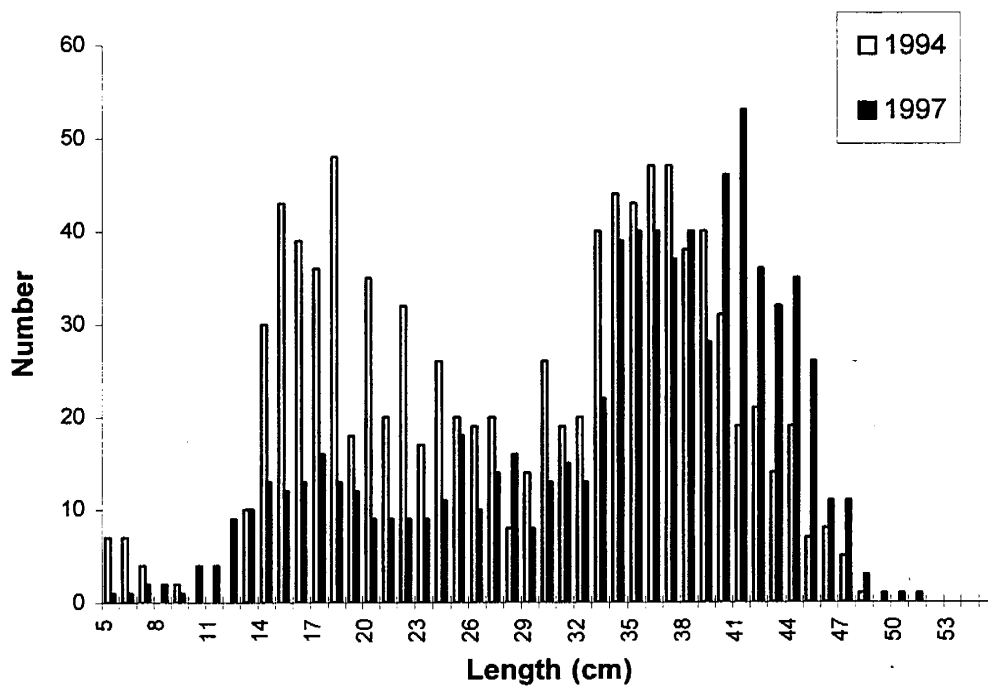


Figure 1. Comparison of 1994 and 1997 frequencies of rainbow trout collected in the South Fork Boise River by electrofishing.

TABLES

Table 1. Number of rainbow collected during mark and recapture samples and number of recaptures by cm size group, South Fork Boise River, September 1997.

Length (cm)	Mark sample	Recapture sample	Recaps	Length (cm)	Mark sample	Recapture sample	Recaps
13	6	4		32	8	5	
14	8	5		33	16	6	
15	10	2		34	24	15	2
16	6	7		35	25	15	1
17	11	5		36	22	18	2
18	8	5		37	24	13	2
19	8	4	1	38	31	9	
20	6	3	1	39	9	19	1
21	7	2		40	29	17	3
22	4	5		41	31	22	2
23	4	5		42	20	16	3
24	6	5		43	20	12	1
25	15	3	1	44	13	22	1
26	5	5		45	11	15	2
27	11	3		46	6	5	
28	12	4		47	6	5	1
29	5	3		48	1	2	
30	8	5		49		1	
31	11	4		>50	2		

Table 2. Summary of habitat characteristics on West Fork Long Tom Creek November of 1996 and 1997.

Transect	Date	Average of wetted width (m)	Average of channel width (m)	Depth (m)	Average of percent vegetation	Average of percent sand	Average of percent gravel
C	11/20/96	2.5	1.5	0.1	13.6	77.3	9.1
C	11/11/97	3.0	1.9	0.1	31.8	45.0	27.3
E	11/20/96	4.2	1.9	0.2	59.1	40.9	0.0
E	11/11/97	5.1	1.8	0.2	45.5	45.5	9.1

APPENDICES

Appendix A. Summary tables from NF Boise River snorkel surveys in August 1997.

STREAM: NF Boise River SAMPLE DATE: 8/27/97
 SECTION: 01
 EPA REACH: 17050111028 QUAD MAP:
 RTS: R, T, S LAT/LONG: 43 55.4 ; 115 20.11
 SECTION DESCRIPTION: Horsefly Creek.

Transect Information:
 Section Length (m): 88.5
 Elevation (m):
 Gradient (%): 0.00%
 Population Est: 0.0 S.E(popest): 0
 Shade (%): 0.0

Habitat Type:
 Pool: 0.0 %
 Riffle: 11.1 %
 Run: 77.8 %
 Pocket: 11.1 %

Mean Width (m): 11.1
 Mean Depth (m): 0.4
 Cover (%): 0

Substrate
 Organic: 0 %
 Sand: 4 %
 Gravel: 17 %
 Rubble: 37 %
 Boulder: 31 %
 Bedrock: 11 %

Water Chemistry
 Time:
 H2O Temp(C):
 Air Temp(C):
 pH:
 Alkalinity(mg/l CaCO3):
 Hardness(uS/cm3):
 Conductivity(mg/l CaCO3):

Species
 BLT Bull trout
 MWF Mountain whitefish
 NSF Northern pikeminnow
 WCT Westslope cutthroat
 WRB Wild rainbow/redband

Length Frequency

Species	CM	Method	Number
	Group		Measured
BLT	25	SN	1
BLT	27	SN	1
BLT	30	SN	1
BLT	33	SN	1
MWF	33	SN	8
NSF	35	SN	2
WCT	17	SN	1
WCT	20	SN	1
WCT	27	SN	1
WRB	7	SN	4
WRB	10	SN	8
WRB	12	SN	8
WRB	15	SN	3
WRB	17	SN	3
WRB	20	SN	5
WRB	22	SN	2
WRB	25	SN	6
WRB	27	SN	1
WRB	30	SN	2
WRB	33	SN	2
WRB	35	SN	1

Appendix A. (continued)

STREAM: NF Boise River SAMPLE DATE: 8/27/97
 SECTION: 02
 EPA REACH: 17050111028 QUAD MAP:
 RTS: R, T, S LAT/LONG: 0 0 ; 0 0
 SECTION DESCRIPTION: Blue Jay Creek; 100m above Blue Jay Creek in deeper run.

Transect Information:

Section Length (m): 61
 Elevation (m):
 Gradient (%): 0.00%
 Population Est: 0.0 S.E(popest): 0
 Shade (%): 0.0
 Mean Width (m): 15.5
 Mean Depth (m): 0.4
 Cover (%): 0

Habitat Type:

Pool: 0.0 %
 Riffle: 11.1 %
 Run: 77.8 %
 Pocket: 11.1 %

Substrate

Organic: 0 %
 Sand: 4 %
 Gravel: 18 %
 Rubble: 36 %
 Boulder: 33 %
 Bedrock: 9 %

Water Chemistry

Time:
 H2O Temp(C):
 Air Temp(C):
 pH:
 Alkalinity(mg/l CaCO3):
 Hardness(uS/cm3):
 Conductivity(mg/l CaCO3):

Species
 WRB Wild rainbow/redband

Length Frequency

Species	CM Group	Method	Number Measured
WRB	7	SN	1
WRB	10	SN	3
WRB	12	SN	2
WRB	15	SN	3
WRB	17	SN	1
WRB	20	SN	5
WRB	25	SN	3
WRB	30	SN	1

Appendix A. (continued)

STREAM: NF Boise River SAMPLE DATE: 8/27/97
 SECTION: 03
 EPA REACH: 17050111028 QUAD MAP:
 RTS: R, T, S LAT/LONG: 0 0 ; 0 0
 SECTION DESCRIPTION: Unnamed drainage above Blue Jay Creek. ~300m above mouth of Blue Jay Creek. Site was in pool just below mouth of trib.

Transect Information:
 Section Length (m): 31
 Elevation (m):
 Gradient (%): 0.00%
 Population Est: 0.0 S.E(popest): 0
 Shade (%): 0.0
 Mean Width (m): 15.0
 Mean Depth (m): 0.5
 Cover (%): 0

Habitat Type:
 Pool: 22.2 %
 Riffle: 33.3 %
 Run: 44.4 %
 Pocket: 0.0 %

Water Chemistry
 Time: 05:00 PM
 H2O Temp(C):
 Air Temp(C): 26.6
 pH:
 Alkalinity(mg/l CaCO3):
 Hardness(uS/cm3):
 Conductivity(mg/l CaCO3):

Substrate
 Organic: 3 %
 Sand: 18 %
 Gravel: 16 %
 Rubble: 53 %
 Boulder: 0 %
 Bedrock: 0 %

Length Frequency

Species	CM	Method	Number
	Group		Measured
BLT	30	SN	1
BLT	45	SN	1
MWF	35	SN	4
MWF	40	SN	4
NSF	30	SN	3
WRB	5	SN	1
WRB	10	SN	4
WRB	15	SN	1
WRB	20	SN	3
WRB	25	SN	1
WRB	30	SN	2

Species
 BLT Bull trout
 MWF Mountain whitefish
 NSF Northern pikeminnow
 WRB Wild rainbow/redband

Appendix B. Summary tables from SF Payette River snorkel surveys in August 1997.

STREAM: SF Payette SAMPLE DATE: 8/19/97
 SECTION: MP1.3
 EPA REACH: 17050120004 QUAD MAP: Garden Valley
 RTS: R7E, T8N, S28 LAT/LONG: 44 5.16 ; 115 38.36
 SECTION DESCRIPTION: 1.3 miles downstream of junction with Hwy 21.

Transect Information:
 Section Length (m): 82
 Elevation (m):
 Gradient (%): 0.00%
 Population Est: 0.0 SE(pepest): 0
 Shade (%): 0.0

Habitat Type:
 Pool: %
 Riffle: %
 Run: %
 Pocket: %

Mean Width (m):
 Mean Depth (m):

Substrate

Cover (%):

Organic: %
 Sand: %
 Gravel: %
 Rubble: %
 Boulder: %
 Bedrock: %

Water Chemistry

Time:
 H2O Temp(C):
 Air Temp(C):
 pH:
 Alkalinity(mg/l CaCO3):
 Hardness(uS/cm3):
 Conductivity(mg/l CaCO3):

Species
 HRB Hatchery rainbow
 MWF Mountain whitefish
 WRB Wild rainbow/redband

Length Frequency

Species	CM Group	Method	Number Measured
HRB	25	SN	2
MWF	7	SN	1
MWF	15	SN	1
MWF	20	SN	2
MWF	25	SN	2
MWF	28	SN	1
MWF	33	SN	4
MWF	35	SN	3
WRB	7	SN	3
WRB	10	SN	10
WRB	12	SN	10
WRB	15	SN	11
WRB	17	SN	5
WRB	20	SN	7
WRB	25	SN	4
WRB	30	SN	1
WRB	33	SN	1

Appendix B. (continued)

STREAM: SF Payette SAMPLE DATE: 8/19/97
SECTION: MP2.0
EPA REACH: 17050120004 QUAD MAP: Banks
RTS: R, T, S LAT/LONG: 44 4.75 ; 115 36.42
SECTION DESCRIPTION: Junction of Hwy 21. Site begins upstream of parking area.

Transect Information:
Section Length (m): 82
Elevation (m):
Gradient (%): 0.00%
Population Est: 0.0 SE(popest): 0
Shade (%): 0.0

Habitat Type:
Pool: %
Riffle: %
Run: %
Pocket: %

Mean Width (m):
Mean Depth (m):
Cover (%):

Substrate
Organic: %
Sand: %
Gravel: %
Rubble: %
Boulder: %
Bedrock: %

Water Chemistry
Time:
H2O Temp(C):
Air Temp(C):
pH:
Alkalinity(mg/l CaCO3):
Hardness(uS/cm3):
Conductivity(mg/l CaCO3):

Species
HRB Hatchery rainbow
MWF Mountain whitefish
WRB Wild rainbow/redband

Length Frequency

Species	CM Group	Method	Number Measured
	7	SN	3
	10	SN	9
	12	SN	5
	15	SN	15
	17	SN	7
	20	SN	11
	25	SN	2
	28	SN	1
	30	SN	5
	33	SN	5
	35	SN	3
HRB	15	SN	1
MWF	7	SN	1
WRB	7	SN	1

Appendix B. (continued)

STREAM: SF Payette SAMPLE DATE: 8/19/97
 SECTION: MP77.5
 EPA REACH: 17050120009 QUAD MAP: Lowman
 RTS: R8N, T9N, S32 LAT/LONG: 44 4.31 ; 115 31.97
 SECTION DESCRIPTION: Begin at turnout at milepost 77.5.

Transect Information:
 Section Length (m): 73
 Elevation (m): 1271
 Gradient (%): 0.00%
 Population Est: 0.0 SE(popest): 0
 Shade (%): 0.0

Habitat Type:
 Pool: %
 Riffle: %
 Run: %
 Pocket: %

Mean Width (m):
 Mean Depth (m):
 Cover (%):

Substrate
 Organic: %
 Sand: %
 Gravel: %
 Rubble: %
 Boulder: %
 Bedrock: %

Water Chemistry
 Time:
 H2O Temp(C):
 Air Temp(C):
 pH:
 Alkalinity(mg/l CaCO3):
 Hardness(uS/cm3):
 Conductivity(mg/l CaCO3):

Species
 HRB Hatchery rainbow
 MWF Mountain whitefish
 WRB Wild rainbow/redband

Length Frequency

Species	CM Group	Method	Number Measured
HRB	30	SN	1
HRB	33	SN	1
MWF	17	SN	3
WRB	7	SN	1
WRB	15	SN	1
WRB	20	SN	1

Appendix B. (continued)

STREAM: SF Payette SAMPLE DATE: 8/18/97
 SECTION: MF0.0
 EPA REACH: 17050122035 QUAD MAP: Garden Valley
 RTS: R4E, T9N, S20 LAT/LONG: 44 6.18 ; 116 0.32
 SECTION DESCRIPTION: Begins at mouth of mf of Payette River. Ends at public access area.

Transect Information:			Habitat Type:	
Section Length (m):	318.5		Pool:	%
Elevation (m):	290		Riffle:	%
Gradient (%):	0.00%		Run:	%
Population Est:	0.0	SE(popest): 0	Pocket:	%
Shade (%):	0.0			
Mean Width (m):			Substrate	
Mean Depth (m):			Organic:	%
Cover (%):			Sand:	%
Water Chemistry			Gravel:	%
Time:			Rubble:	%
H2O Temp(C):			Boulder:	%
Air Temp(C):			Bedrock:	%
pH:				
Alkalinity(mg/l CaCO3):			Species	
Hardness(uS/cm3):			HRB	Hatchery rainbow
Conductivity(mg/l CaCO3):			LSS	Largescale sucker
Length Frequency			MWF	Mountain whitefish
Species	CM	Method	NSF	Northern pikeminnow
	Group	Number	WCT	Westslope cutthroat
		Measured	WRB	Wild rainbow/redband
HRB	15	SN		
HRB	20	SN		
HRB	30	SN		
LSS	30	SN		
LSS	38	SN		
LSS	50	SN		
MWF	20	SN		
MWF	22	SN		
MWF	25	SN		
MWF	28	SN		
MWF	30	SN		
MWF	33	SN		
NSF	35	SN		
NSF	38	SN		
NSF	40	SN		
WCT	33	SN		
WRB	15	SN		
WRB	28	SN		

1997 ANNUAL PERFORMANCE REPORT

State of: Idaho

Program: Fisheries Management F-71-R-22

Project II: Surveys and Inventories

Subproject II-D: Southwest Region

Job No.: d

Title: Salmon and Steelhead Investigations

Contract Period: July 1, 1997 to June 30, 1998

ABSTRACT

Salmon spawning ground surveys were conducted in Bear Valley, Elk, and Sulphur Creek trend areas on August 21-28, 1997. Redds numbered 38, 86, and 17 in Bear Valley, Elk and Sulphur Creek trend areas, respectively.

Additional information on Southwest Region salmon and steelhead investigations are incorporated in a separate, statewide "Salmon and Steelhead Investigations" report.

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1997 ANNUAL PERFORMANCE REPORT

State of: Idaho

Program: Fisheries Management F-71-R-22

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ABSTRACT

Regional fishery staff continue to respond to a large number of public requests for fishing information. Bi-weekly ASK FISH reports were prepared and forwarded to vendors for distribution. Regional fishery staff consulted with the Environmental Staff Biologist for requests on fish population status and concerns on a multitude of projects in the Southwest Region. Approximately 20 landowners were assisted with pond construction information. Numerous requests for fish stocking advice and/or rates were received from local Treasure Valley residents.

The regional fisheries database was expanded by incorporating fish population data from federal agencies and various holders of Department collecting permits along with the data collected by regional staff. The database now contains fishery survey data for most of the Boise National Forest drainages and a majority of BLM administered lands in The Department's Southwest Region.

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