NDOW 1972

FIELD TRIP REPORT

BY: Patrick Coffin, Region II Fisheries Asst. DATE: 15 November, 1972

PERSONNEL: Patrick Coffin, NDF&G, Dean Doell, USFS, Jim Martin, USFS, Bob Easton, USFS, George Urdall, USFS.

PURPOSE: To investigate proposed rock removal project in West Fk. Jarbidge River by U.S. Forest Service.

DETAIL:

The area in concern is U.S. Forest Service lands below the town of Jarbidge where the natural meandering of the West Fk. Jarbidge River is causing erosion problems with the roadway along the east bank. The removal of selected large rocks was suggested as a partial remedy for preventing further road erosion during the Spring when large volumes of water flow down the river.

Most areas inspected were locations where the large boulders on the west bank of the stream, or in the west side of the stream itself were causing the water to deflect sharply to the east side and cut into the dirt fill of the road. One section was actually a large bend in the river which would be impossible to change with the limited action suggested.

Most of the large boulders in question did deflect the water towards the roadway and do cause serious erosion and silting problems along the creek. At the same time these boulders generally create pool areas below the rock which furnish ideal habitat for fish life. The removal of a few selected rocks from the West Fork of the Jarbidge would certainly not cause any major change in the river system or fisheries habitat, but at the same time it would serve little long term purpose since the problem would be relayed downstream a short distance where the stream would again work on the roadway.

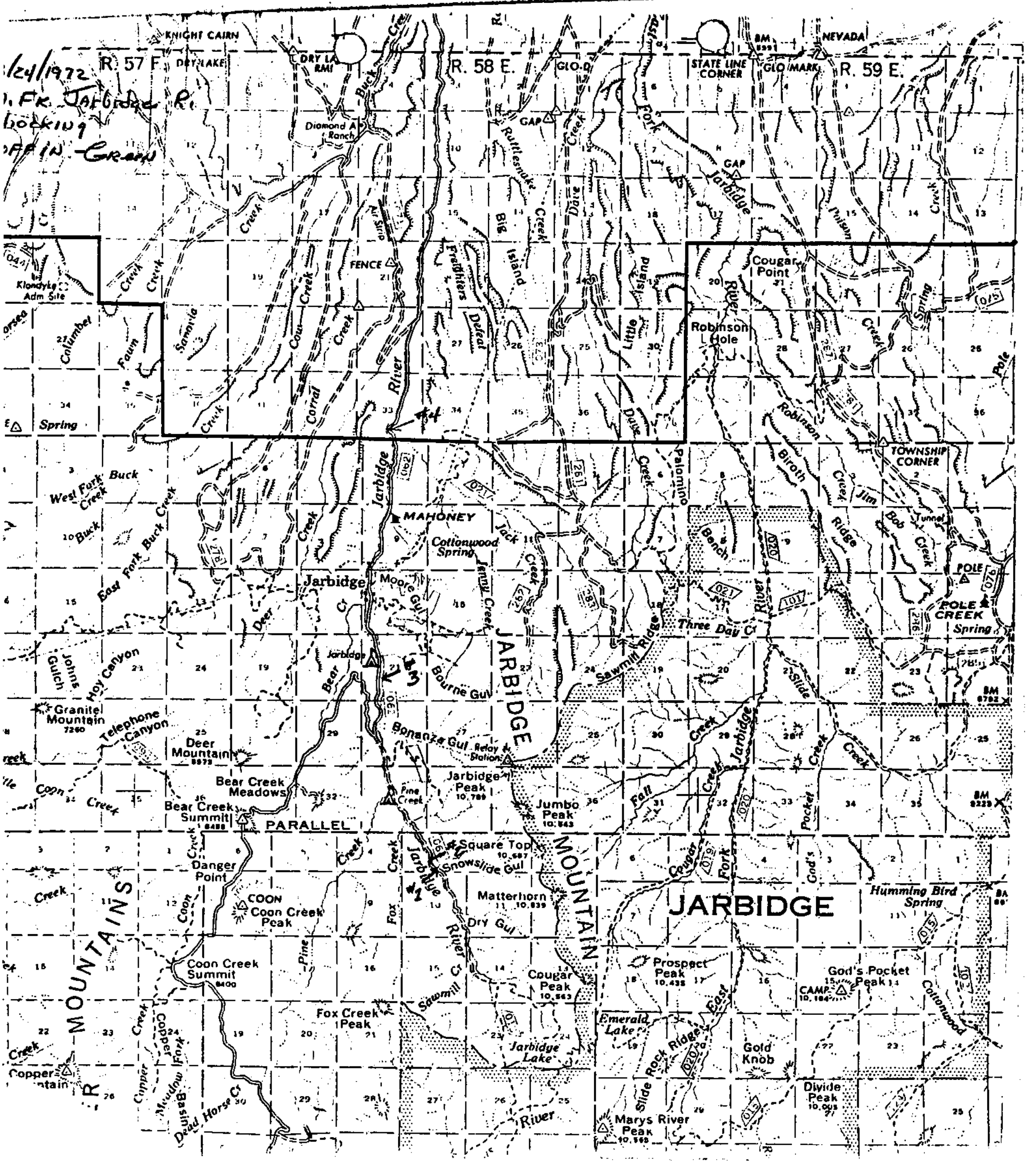
Suggested remedies would be of a more long term nature and more compatible with the natural tendencies of the river itself. The roadway itself is generally in a very poor location with its close proximity to the river and erosion will continue to be a major problem as long as this is the case. Moving the road away from the creek would be the best solution, but fairly expensive. Perhaps an alternate route across the Island could be suggested. In any case the road should have all the turns where the creek could cause erosion problems riprapped with heavy rockwork. This would help both the roadway and the creek. The creek tends to slow itself by working against banks and a rockwork turn is much better than a dirt fill which is now generally the case. Secondly by rocking these locations the need to fill the road edge with dirt annually would be much less.

Any change in the boulder ratio will decrease pool quantity, and also the natural slowing process of the stream which in turn increases the volocity of the water causing more problems. Any area like the Jarbidge River system with its immense watershed will continue to change its runoff patterns and manmade structures in close proximity will be in jeopardy.

Copy sent to D-3 and Dave Lesley.

Patrick Coffin
Patrick Coffin
Region II Fisheries Asst.
Elko, Nevada
14 November, 1972

1972 Survey


R. 57 E.
R. 58 E.
R. 59 E.
KNIGHT CAIRN
DRY LAKE
STATE LINE CORNER
GLO MARK
NEVADA
Diamond A Ranch
Buck Creek
Rattlesnake Creek
GAP
Dave Creek
East Fork Jarbidge
Poison Creek
Big Island
Little Island
Freighters Defeat
Air Strip
FENCE
Cou Creek
Corral Creek
Samaria Creek
Klondyke Adm Site
Columbet
Fawn
Spring
Cougar Point
Robinson Hole
Robinson Creek
Biroth Ridge
Jim Bob Creek
Tunnel
TOWNSHIP CORNER
POLE
POLE CREEK Spring
Palomino Creek
Jarbidge River
MAHONEY
Cottonwood Spring
Jack Creek
Jenny Creek
Bench
Three Day Cr
Sawmill Ridge
Slide Creek
Pocket Creek
God's
West Fork Buck Creek
East Fork Buck Creek
Deer Creek
Johns Gulch
Hoy Canyon
Granite Mountain 7260
Telephone Canyon
Deer Mountain 8573
Bear Creek Meadows
Bear Creek Summit 8488
PARALLEL
Moore Gul
Bourne Gul
Bonanza Gul
Relay Station
Jarbidge Peak 10,789
Jumbo Peak 10,543
Pine Creek
Square Top 10,687
Snowslide Gul
Matterhorn 10,839
Dry Gul
Fox Creek
Fall Creek
Cougar Creek
JARBIDGE
JARBIDGE MOUNTAIN
JARBIDGE
Humming Bird Spring
Danger Point
COON
Coon Creek Peak
Coon Creek Summit 8400
Pine Creek
Sawmill Cr
Fox Creek Peak
Cougar Peak 10,563
Jarbidge Lake
Prospect Peak 10,438
God's Pocket Peak
CAMP 10,164
Cottonwood
Emerald Lake
Slide Rock Ridge
East Fork
Gold Knob
Divide Peak 10,005
Marys River Peak 10,565
River
Copper Basin
Meadow Fork
Copper Creek
Copper Mountain
Dead Horse Cr
MOUNTAINS
BM 8792
BM 8229

Sample Location FF 91

FISH POPULATION SAMPLING

#1

District Region II Water W. Fk. Jarbidge River Date 24 August, 1972 Method Electro-shocking

Description of location sampled (area, depth, etc.) Snowslide Gulch confluence Hours/Hauls/ Area/ of sample 100'

Water data: Temperature 50° F Turbidity clear Level low

FISH COLLECTED — NUMBER BY INCH GROUP

Species	3	4½	5	5½	6	6½	7	7½	8																
1 Wild Rainbow		2	1	1			2					7 wild trout escaped capture. All rainbow 4-7 inches													
2 Hat. Rainbow																									
3																									
4																									
5																									
6																									
7																									
8																									

STATISTICAL DATA

Species	Total Number	Aver. size (inches)	% Catch	Fish per net or per trap-hour	Fish per Seine- haul	Fish per shocker-hour (lakes)	Fish per mile (streams)
1 Rainbow, wild	13	5.6"	100				686.4
2							
3							
4							
5							
6							
7							
8							

Rough/game fish ratio: Number 0/100 Pounds

FISH POPULATION SAMPLING

District Region II Water W. Fk. Jarbidge River Date 8/24/72 Method electro-shocking

Description of location sampled (area, depth, etc.) Camp ¼ mile below snowslide Gulch Hours/Hauls/ Area/ of sample 150'

Water data: Temperature 51° Turbidity clear Level

FISH COLLECTED — NUMBER BY INCH GROUP

Species	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8
1 Wild Rainbow		2		2	1	3	1	1	1	1		
Sculpin	4	3	1	1								
3												
4												
5												
6												
7												
8												

STATISTICAL DATA

Species	Total Number	Aver. size (inches)	% Catch	Fish per net or per trap-hour	Fish per Seine- haul	Fish per shocker-hour (lakes)	Fish per mile (streams)
Rainbow	12	4.5"	60%				422.4
2 Sculpin	10	3"	40%				
3							
4							
5							
6							
7							
8							

Rough/game fish ratio: Number 40/60 Pounds

FISH POPULATION SAMPLING

District Region II Water W. Fk. Harbidge River Date 8/24/72 Method electro-shocking

Description of location sampled (area, depth, etc.) confluence of Jack Creek Hours/Hauls/ Area/ of sample 150'

Water data: Temperature _____ Turbidity clear Level _____

FISH COLLECTED — NUMBER BY INCH GROUP

Species	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9
1 Wild Rainbow					1	1	5	2	1		1				
Dolly V.										1					
3 Sculpin	1	3	2	1	4	1									
4															
5															
6															
7															
8															

Estimated 16 trout not captured with shocker

STATISTICAL DATA

Species	Total Number	Aver. size (inches)	% Catch	Fish per net or per trap-hour	Fish per Seine- haul	Fish per shocker-hour (lakes)	Fish per mile (streams)
Wild Rainbow	11	5	45				950.4
2 Dolly Varden	1	6½	5				35.2
3 Sculpin	12	3½	50				
4							
5							
6							
7							
8							

Rough/game fish ratio: Number _____ Pounds _____

FISH POPULATION SAMPLING

District Region II Water W. Fk. Jarbidge River Date 8/24/72 Method Electro-shocking

Description of location sampled (area, depth, etc.) 1 mile above town of Jarbidge Hours/Hauls/ Area/ of sample 125'

Water data: Temperature _____ Turbidity clear Level _____

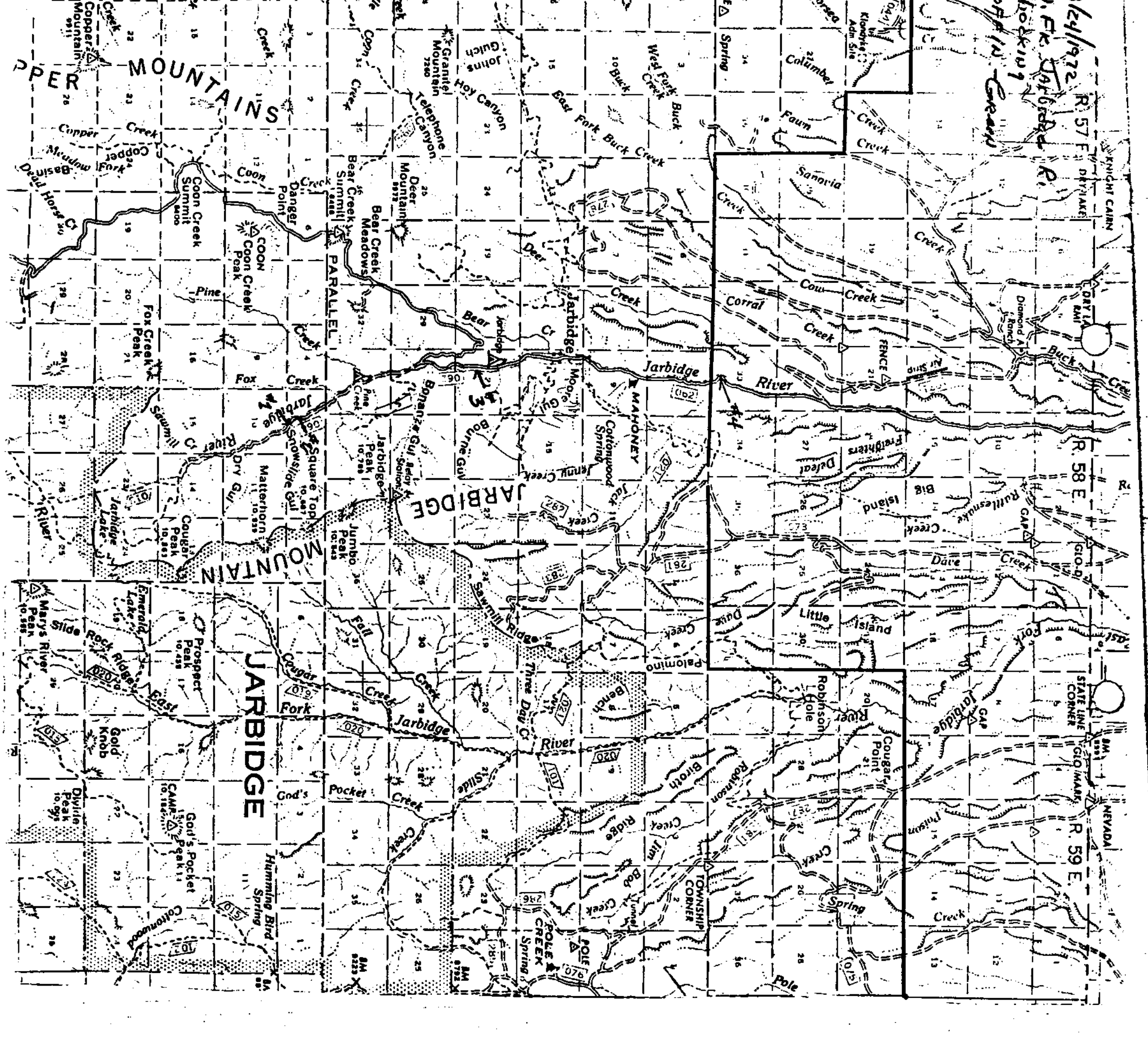
FISH COLLECTED — NUMBER BY INCH GROUP

Species	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	10½	11							
1 Wild Rainbow		1				4	2	1	1			1													
2 Hatchery Rainbow														1	1	1									
3 Whitefish																1									
4 Sculpin	3	3		2																					
5																									
6																									
7							10 trout lost from shocking success.																		
8																									

STATISTICAL DATA

Species	Total Number	Aver. size (inches)	% Catch	Fish per net or per trap-hour	Fish per Seine- haul	Fish per shocker-hour (lakes)	Fish per mile (streams)
Wild Rainbow	10	44%					970.6
2 Hat. Rainbow	3	13%					
3 Whitefish	1	4%					
4 Sculpin	9	39%					
5							
6							
7							
8							

Rough/game fish ratio: Number _____ Pounds _____


MOUNTAINS
Copper Creek
Coon Creek Summit
Coon Creek Peak
Danger Point
Bear Creek Summit
Bear Creek Meadows
Deer Mountain
Granite Mountain
Telephone Canyon
Hoy Canyon
East Fork Buck Creek
West Fork Buck Creek
Columbet
Fawn Creek
Sanovia Creek
Cow Creek
Corral Creek
Buck Creek
Jarbidge River
Fox Creek Peak
Fox Creek
Pine Creek
Sawmill Cr
Jarbidge Peak
Bonanza Gul
Bourne Gul
Moore Gul
MAHONEY
Cottonwood Spring
Jenny Creek
Jack Creek
JARBIDGE
MOUNTAIN
Matterhorn
Square Top
Snowslide Gul
Dry Gul
Cougar Peak
Jarbidge Lake
Jumbo Peak
Freighters Defeat
Big Island
Rattlesnake Creek
Dave Creek
Little Island
Dune Creek
Palomino Creek
Sawmill Ridge
Emerald Lake
Marys River Peak
Slide Rock Ridge
Prospect Peak
Cougar Creek
East Fork Jarbidge
Fall Creek
Three Day Cr
Bench
Robinson Hole
Cougar Point
Gold Knob
God's Pocket Creek
Slide
Birch
Robinson
Ridge
Jim Creek
Bob Creek
Tunnel
Poison Creek
Spring Creek
Divide Peak
God's Pocket Peak
Humming Bird Spring
Cottonwood
POLE CREEK
Spring
TOWNSHIP CORNER
Pole
STATE LINE CORNER
NEVADA
R. 57 E.
R. 58 E.
R. 59 E.
KNIGHT CAIN
DRY LAKE
Diamond A Ranch
FENCE
GAP
GLOMAR
PARALLEL
Klondike Adm Site

Sample Location #1

FISH POPULATION SAMPLING

District Region II Water W. Fk. Jarbidge River Date 24 August, 1972 Method Electro-shocking

Description of location sampled (area, depth, etc.) Snowslide Gulch confluence Hours/Hauls/ Area/ of sample 100'

Water data: Temperature 50° F Turbidity clear Level low

FISH COLLECTED — NUMBER BY INCH GROUP

Species	3	4½	5	5½	6	6½	7	7½	8																
1 Wild Rainbow		2	1	1			2					7 wild trout escaped capture. All rainbow 4-7 inches													
2 Hat. Rainbow																									
3																									
4																									
5																									
6																									
7																									
8																									

STATISTICAL DATA

Species	Total Number	Aver. size (inches)	% Catch	Fish per net or per trap-hour	Fish per Seine- haul	Fish per shocker-hour (lakes)	Fish per mile (streams)
1 Rainbow, wild	13	5.6"	100				686.4
2							
3							
4							
5							
6							
7							
8							

Rough/game fish ratio: Number 0/100 Pounds

STREAM GAMEFISH HABITAT INVENTORY FF-16

Stream W. Fk. Jarbidge River Inventory Date 8/24/72 Sample No. 1

Drain. System Jarbidge River Watershed Jarbidge Mtns. County Elko

Sample Length 100' Sample Elev. _____ Sampled By: Coffin-Green

Stream Length _____ Fishable Length _____ Elev. Range: From _____ To _____

Sample Location Confuence of Snowslide Gulch

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Stream Type	Bottom Type	++Pool Quality++	Runoff	Turbidity
Torr.	%Rock 5	%Class 1 5	Flood	Clear X
Rapid	%Rubble 55	%Class 2 15	High	Cloudy
Fast X	%Gravel 35	%Class 3 20	Med.	Murky
Slow	%Sand 5	%Class 4 20	Low X	Muddy
Slug.	%Mud	%Class 5 40	Int.	(JTU's)

%Pool Area 20 %Riffle Area 80 Ave. Pool Quality _____

****

Temperature, of				Flow Data	Water Chemistry
Time	Water	Air	Depth	Stream Width 9.75'	DO ____ ppm, Co_2 ____ ppm
11:45	50°	67°	Sur	Stream Depth 5½"	CO_3(Phpn ____ ppm, pH ____
				Gradient%	HCO_3(MO) ____ ppm,
				Velocity(f/s)	Conductivity (Mhos/cm)
				Volume(cfs)	TDS ____ ppm
				Pollution Type None	Source

Water Chemistry Analysis By: _____ Date _____

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Streambank Vegetation	Major Streambank Veg.	Stream Shading & Cover	Bank Stability
%Forest 25	Alder %	% Dense S&C	Stable% 70
%Brush 40	chokecherry %	% Heavy S&C	Unstable% 30
%Grass 30	Aspen %	% Mod. S&C X	
%Eroded 5	Grass sp. %	% Light S&C	
	Alpine Fir %	% Comp. Open	

Beaver Activity Age: _____ Control Needed _____

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Seasonal Fish Food Abundance(Date)	Fall	Winter	Spring	Summer	Fish Food Organisms Present	Date
Excell					%	
Good					%	
Fair					%	
Poor					%	
					%	

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Land Ownership	Grazing Pattern	Grazing Species/Season	Type Grazing Use/Season
%Private	Heavy	Cattle	Annual
%Public 100	Moderate	Sheep	Rotation
Agency USFS	Light	Horses	
	No Use	Wildlife X	

Photo Transect: Yes __ No __ Year Established _____ Trend Check _____

Description _____

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Fishery Quality Good Gamefish Species Rainbow, Dolly Varden

Catchables/Mile(6"+) 228.8 Subcatchables/Mile(-6") 457.6 Total 686.4

Stream Status: Improving ____ Same ____ Deteriorating ____ Time Interval _____

Original Survey: 1954 Secondary Surveys 1961, 1972

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Pool Quality Index

Quality Class No.	Length or Width	Depth	Shelter[1]
1	Greater than a.c.w.[2]	2' or deeper	Abundant[3]
	Greater than a.c.w.	3' or deeper	Exposed[1]
2	Greater than a.c.w.	2' or deeper	Exposed
	Greater than a.c.w.	(2'	Intermediate[5]
	Greater than a.c.w.	(2'	Abundant
3	Equal to a.c.w.	(2'	Intermediate
	Equal to a.c.w.	(2'	Abundant
4	Equal to a.c.w.	Shallow[6]	Exposed
	Less than a.c.w.	Shallow	Abundant
	Less than a.c.w.	Shallow	Intermediate
	Less than a.c.w.	(2'	Intermediate
	Less than a.c.w.	2' or deeper	Abundant
5	Less than a.c.w.	Shallow	Exposed

STREAM GAMEFISH HABITAT INVENTORY FF-16

Stream W. Fk. Jarbidge River Inventory Date 8/24/72 Sample No. 2

Drain. System Jarbidge Watershed Jarbidge County Elko

Sample Length 150' Sample Elev. ____ Sampled By: Coffin-Green

Stream Length ____ Fishable Length ____ Elev. Range: From ____ To ____

Sample Location Camp location ¼ mile downstream from Snowslide Gulch

****

Stream Type	Bottom Type	++Pool Quality++	Runoff	Turbidity
Torr. ____	%Rock 30	%Class 1 10	Flood ____	Clear X
Rapid ____	%Rubble 60	%Class 2 20	High ____	Cloudy ____
Fast X	%Gravel 10	%Class 3 30	Med. ____	Murky ____
Slow ____	%Sand ____	%Class 4 30	Low X	Muddy ____
Slug. ____	%Mud ____	%Class 5 10	Int. ____	(JTU's) ____

%Pool Area 30 %Riffle Area 70 Ave. Pool Quality ____

****

Temperature, of				Flow Data	Water Chemistry
Time	Water	Air	Depth	Stream Width 9'	DO ____ ppm, CO_2 ____ ppm
1 pm	51°	____	Sur	Stream Depth 6"	CO_3 (Phpn ____ ppm, pH ____
				Gradient% ____	HCO_3 (MO) ____ ppm,
				Velocity (f/s) ____	Conductivity (Mhos/cm) ____
				Volume (cfs) est. 7	TDS ____ ppm
				Pollution Type ____	Source ____

Water Chemistry Analysis By: ____ Date ____

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Streambank Vegetation	Major Streambank Veg.	Stream Shading & Cover	Bank Stability
%Forest 30	Alpine Fir %	% Dense S&C ____	Stable% 60
%Brush 40	Alder %	% Heavy S&C ____	Unstable% 40
%Grass 10	grass sp. %	% Mod. S&C X	
%Eroded 20	Aspen %	% Light S&C ____	
	____ %	% Comp. Open ____	

Beaver Activity Age: ____ Control Needed ____

****

Seasonal Fish Food Abundance (Date)	Fall	Winter	Spring	Summer	Fish Food Organisms Present	%	Date
Excell	____	____	____	____	____	%	____
Good	____	____	____	____	____	%	____
Fair	____	____	____	____	____	%	____
Poor	____	____	____	____	____	%	____
					____	%	____

****

Land Ownership	Grazing Pattern	Grazing Species/Season	Type Grazing Use/Season
%Private ____	Heavy ____	Cattle ____	Annual ____
%Public 100%	Moderate ____	Sheep ____	Rotation ____
Agency USFS	Light ____	Horses ____	____
	No Use X	Wildlife ALL	____

Photo Transect: Yes ___ No ___ Year Established ____ Trend Check ____

Description ____

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Fishery Quality Good Gamefish Species Rainbow, Dolly Varden

Catchables/Mile (6"+) 105.6 Subcatchables/Mile (-6") 316.8 Total 422.4

Stream Status: Improving ____ Same ____ Deteriorating ____ Time Interval ____

Original Survey: 1954 Secondary Surveys 1961, 1972

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Pool Quality Index

Quality Class No.	Length or Width	Depth	Shelter[1]
1	Greater than a.c.w.[2]	2' or deeper	Abundant[3]
	Greater than a.c.w.	3' or deeper	Exposed[4]
2	Greater than a.c.w.	2' or deeper	Exposed
	Greater than a.c.w.	(2'	Intermediate[5]
	Greater than a.c.w.	(2'	Abundant
3	Equal to a.c.w.	(2'	Intermediate
	Equal to a.c.w.	(2'	Abundant
4	Equal to a.c.w.	Shallow[6]	Exposed
	Less than a.c.w.	Shallow	Abundant
	Less than a.c.w.	Shallow	Intermediate
	Less than a.c.w.	(2'	Intermediate
	Less than a.c.w.	2' or deeper	Abundant
5	Less than a.c.w.	Shallow	Exposed

STREAM GAMEFISH HABITAT INVENTORY FF-16

Stream W. Fk. Jarbidge River Inventory Date 8/24/72 Sample No. 3

Drain. System Jarbidge Watershed Jarbidge County Elko

Sample Length 125' Sample Elev. ____ Sampled By: Coffin-Green

Stream Length ____ Fishable Length ____ Elev. Range: From ____ To ____

Sample Location 1 mile upstream from town of Jarbidge, ¼ mile above campground.

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Stream Type	Bottom Type	++Pool Quality++	Runoff	Turbidity
Torr. ____	%Rock 20	%Class 1 20	Flood ____	Clear X
Rapid ____	%Rubble 50	%Class 2 10	High ____	Cloudy ____
Fast X	%Gravel 30	%Class 3 60	Med. ____	Murky ____
Slow ____	%Sand ____	%Class 4 10	Low X	Muddy ____
Slug. ____	%Mud ____	%Class 5 ____	Int. ____	(JTU's) ____

%Pool Area 40 %Riffle Area 60 Ave. Pool Quality ____

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Temperature, of Time	Water	Air	Depth
____	____	____	____
____	____	____	____
____	____	____	____
____	____	____	____
____	____	____	____

Flow Data
Stream Width 11'
Stream Depth 8"
Gradient% ____
Velocity(f/s) ____
Volume(cfs) ____
Pollution Type ____ Source ____

Water Chemistry
DO ____ ppm, Co_2 ____ ppm
CO_3(Phpn ____ ppm, pH ____
HCO_3(MO) ____ ppm,
Conductivity (Mhos/cm) ____
TDS ____ ppm

Water Chemistry Analysis By: ____ Date ____

****

Streambank Vegetation		Major Streambank Veg.		Stream Shading & Cover		Bank Stability	
%Forest	30	Alder	% 30	% Dense S&C	____	Stable%	30
%Brush	30	Willow	% 55	% Heavy S&C	____	Unstable%	70
%Grass	____	Aspen	% 10	% Mod. S&C	____		
%Eroded	40	conifers	% 5	% Light S&C	X		
		____	%____	% Comp. Open	____		

Beaver Activity Age: ____ Control Needed ____

****

Seasonal Fish Food Abundance(Date)	Fall	Winter	Spring	Summer	Fish Food Organisms Present	%	Date
Excell	____	____	____	____	____	____	____
Good	____	____	____	____	____	____	____
Fair	____	____	____	____	____	____	____
Poor	____	____	____	____	____	____	____

****

Land Ownership	Grazing Pattern	Grazing Species/Season	Type Grazing Use/Season
%Private ____	Heavy ____	Cattle ____	Annual ____
%Public 100	Moderate ____	Sheep ____	Rotation ____
Agency USFS	Light ____	Horses ____	____
	No Use X	Wildlife All	____

Photo Transect: Yes __ No __ Year Established ____ Trend Check ____

Description ____

****

Fishery Quality Good Gamefish Species Rainbow, Dolly Varden, Whitefish

Catchables/Mile(6"+) 253.2 (+) Subcatchables/Mile(-6") 295.4(+) Total***(970.6)

Stream Status: Improving ____ Same ____ Deteriorating ____ Time Interval ____

Original Survey: 1954 Secondary Surveys 1961, 1972

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Pool Quality Index

Quality Class No.	Length or Width	Depth	Shelter[1]
1	Greater than a.c.w.[2]	2' or deeper	Abundant[3]
	Greater than a.c.w.	3' or deeper	Exposed[4]
2	Greater than a.c.w.	2' or deeper	Exposed
	Greater than a.c.w.	(2'	Intermediate[5]
	Greater than a.c.w.	(2'	Abundant
3	Equal to a.c.w.	(2'	Intermediate
	Equal to a.c.w.	(2'	Abundant
4	Equal to a.c.w.	Shallow[6]	Exposed
	Less than a.c.w.	Shallow	Abundant
	Less than a.c.w.	Shallow	Intermediate
	Less than a.c.w.	(2'	Intermediate
	Less than a.c.w.	2' or deeper	Abundant
5	Less than a.c.w.	Shallow	Exposed

STREAM GAMEFISH HABITAT INVENTORY FF-16

Stream W. Fk. Jarbidge River Inventory Date 8/24/72 Sample No. 4

Drain. System Jarbidge Watershed Jarbidge County Elko

Sample Length 150' Sample Elev. ____ Sampled By: Coffin-Green

Stream Length ____ Fishable Length ____ Elev. Range: From ____ To ____

Sample Location Confluence of Jack Creek

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Stream Type	Bottom Type	++Pool Quality++	Runoff	Turbidity
Torr. ____	%Rock 40	%Class 1 5	Flood ____	Clear X
Rapid ____	%Rubble 50	%Class 2 20	High ____	Cloudy ____
Fast X	%Gravel 10	%Class 3 40	Med. ____	Murky ____
Slow ____	%Sand ____	%Class 4 20	Low X	Muddy ____
Slug. ____	%Mud ____	%Class 5 15	Int. ____	(JTU's) ____

%Pool Area 40 %Riffle Area 60 Ave. Pool Quality ____

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Temperature, of Time	Water	Air	Depth
____	____	____	____
____	____	____	____
____	____	____	____
____	____	____	____
____	____	____	____

Flow Data
Stream Width 12'
Stream Depth 10"
Gradient% ____
Velocity(f/s) ____
Volume(cfs) ____
Pollution Type ____ Source ____

Water Chemistry
DO ____ ppm, Co_2 ____ ppm
CO_3(Phpn ____ ppm, pH ____
HCO_3(MO) ____ ppm,
Conductivity (Mhos/cm) ____
TDS ____ ppm

Water Chemistry Analysis By: ____ Date ____

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Streambank Vegetation		Major Streambank Veg.		Stream Shading & Cover		Bank Stability	
%Forest	10	Willow	%	% Dense S&C		Stable%	90
%Brush	60	Alder	%	% Heavy S&C		Unstable%	10
%Grass	30	Aspen	%	% Mod. S&C	X		
%Eroded		Juniper	%	% Light S&C			
			%	% Comp. Open			

Beaver Activity Age: ____ Control Needed ____

****

Seasonal Fish Food Abundance(Date)	Fall	Winter	Spring	Summer	Fish Food Organisms Present		Date
Excell						%	
Good						%	
Fair						%	
Poor						%	

****

Land Ownership	Grazing Pattern	Grazing Species/Season	Type Grazing Use/Season
%Private ____	Heavy ____	Cattle ____	Annual ____
%Public 100	Moderate ____	Sheep ____	Rotation ____
Agency USFS	Light ____	Horses ____	
	No Use X	Wildlife All	

Photo Transect: Yes ____ No ____ Year Established ____ Trend Check ____

Description ____

****

Fishery Quality Good Gamefish Species Rainbow, Dolly Varden

Catchables/Mile(6"+) ____ Subcatchables/Mile(-6") ____ Total 985.6

Stream Status: Improving ____ Same ____ Deteriorating ____ Time Interval ____

Original Survey: 1954 Secondary Surveys 1961, 1972

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Pool Quality Index

Quality Class No.	Length or Width	Depth	Shelter[1]
1	Greater than a.c.w.[2]	2' or deeper	Abundant[3]
	Greater than a.c.w.	3' or deeper	Exposed[4]
2	Greater than a.c.w.	2' or deeper	Exposed
	Greater than a.c.w.	(2'	Intermediate[5]
	Greater than a.c.w.	(2'	Abundant
3	Equal to a.c.w.	(2'	Intermediate
	Equal to a.c.w.	(2'	Abundant
4	Equal to a.c.w.	Shallow[6]	Exposed
	Less than a.c.w.	Shallow	Abundant
	Less than a.c.w.	Shallow	Intermediate
	Less than a.c.w.	(2'	Intermediate
	Less than a.c.w.	2' or deeper	Abundant
5	Less than a.c.w.	Shallow	Exposed