NDOW 1979

FIELD TRIP REPORT

DATE: 6 September. 1979

PURPOSE: Inspect channelization by U.S. Forest Service

LOCATION: West Fk. Jarbidge River

PERSONNEL: Patrick Coffin

DETAILS;

Visited the West Fk. Jarbidge River after report of channelization of the river in several locations by Terry Crawforth, Regional Law Enforcement Assistant. He had also talked with George Urdhall in Jarbidge and George indicated the U.S. Forest Service was doing the work. Discussion with the Forest Service personnel in the Elko office indicated the work was 'being done to remove snags, and clean river to prevent the' erosion of the .toad.anddestruction of the campgrounds.

The work started at the confluence 'of Pine Creek were several tree snags were removed and work was accomplished near all bridges down to the Mahoney Ranger Station. The largest segment was from the bridge above Pavlak Grade to Bonanza Gulch where about 500 feet channelized. The stream was placed in the middle of the channel with the gravel shoved upeach,bank for 10 or 15 yards on each bank.

Work was accomplished near all the bridgeS and camping areas, down to Mahoney Ranger Stationwithmos.t,work about 100 to 200 feet of channelization. One location had a short segment o.fabout 50 feet where snags were removed and some alteration of the stream was completed. About 1,000 feet or more were altered in 3½ miles of stream, mostly nearly high use and visibility areas.

Lee Greer, Forest Engineer indicated Elko County had requested Some of. the work to protect the road along the Jarbidge River. He indicated ,the flood 2 years ago had moved considerable gravel and tree snags and left the material in locations which were causing problems with the road and campgrounds. In a few locations they centered the stream in the old channel with gravel shoulders built on each side. Shade, cover, and pools are entirely missing through the channelized segment during low flow periods of late summer.

This segment of the Jarbidge River provided the !!oorest quality habitat in the past and the curretit'activity did not helpthe fishery. " Pool creating habitat should be placed in th"'str,,amby stratigicall.y locating large boulders(3-5feet). Inaddition sensative streambanks should be riprapped by large rock or gabion use to prevent the need for working in the streambottom periodically.

FILE

Prepared by:

Patrick Coffin

Patrick Coffin
Region II Fisheries Asst.
6 September, 1979

Fisheries Pat Game

Adm.

I & E Other

E.

File Section Fisheries Stream

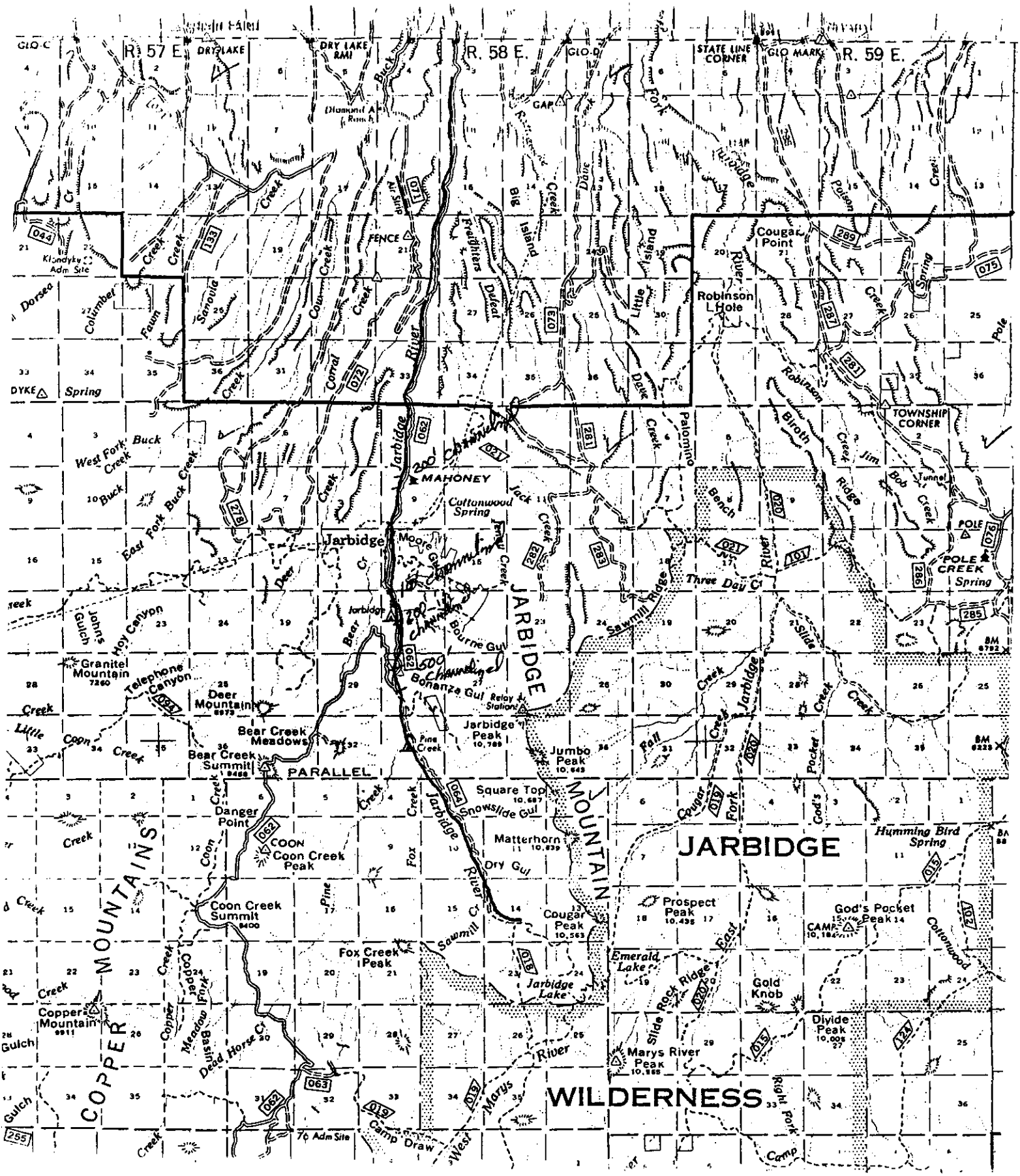
File Name Jarbidge River West Fk

1979- Channelization

9/6/79

Newfile
White label

West Fk. Jarbidge River
USFS Channelization
8/1979
RC.



1979 Channelization Data - Channelized + Natural (Non-channelized) (disturbed otherwise)

Nevada Water Code 1208

STREAM POPULATION SAMPLING

ater Jarbridge River Drainage System JDP JADS County Elko

ample No. Channeled A Sample Length 1621' Sample Method Homelite Generator Location: T R Sec.

ampling Location This is longest area of recent channel work extending from the Poulak post office to w/i 200' of the second bridge above the Poulak Post office. USFS Code:

Date: Tues 10/23 & Wed. 10/24

* - area of old channel 100' long

SIZE

ish Soeeies	-1	1	2	3	4	5	6	7	8	9	10	1	TOtAL
Sculpin	1 (5*)	1+(1*)	2	5+(4*)	1*	1							13+(11*)
Rainbow		5+(8*)	1+(6*)	4+(4*)	2+(4*)	1+(6*)	2*	1*	2*				13+(20*)
Whitefish										2	2+(1*)	1+(1*)	5+(2*)
TOTALS	1+(5*)	6+(9*)	3+(6*)	9+(17*)	5+(2*)	2+(6*)	2*	1*	2*	2	2+(1*)	1+(1*)	31+(52*)

	Total No.	Ave. Size							(-6") /Mile	Totsl Fish/
	13	2.92								
*	11*	2.45*	21.2*	Ø *	100 *	100*	Ø *	0 *	580.8*	580.8*
Rainbow Trout	13	2.46	41.9	Ø	100	100	Ø	16	42.3	42.3
*	39*	3.08*	75.0*	12.8 *	87.2 *	94.9*	5.1*	264.00*	1795.52*	2059.2*
Mother Whitefish	5	9.	16	100n	Ø	100	Ø	16 28	Ø	16 28
*	2	10	3.8	100.0*	Ø *	100*	Ø *	105.6 *	Ø*	105.6*
TOTALS:	52*	2.83*		13.5*	86.5*	96.2	3.8	369.6*	2376.32	2745.6*
~~OTALS~~	31	3.8		16.1	83.9	93.6	6.4	32.56	68.35	100.9

ater Temperature °F 4 °C Air Temperature 59 °F °C Time 9:00 AM Elevation

Jrbidity:		Runoff Type:		Stream Type:		Shocking Effie:		Stream Cover:		Number Pools by Class:	
lear	x 10/24	Flood		Torr.		Excellent		Dense		#1	
loudy	x 10/23	High		Rapid	x	Good		Heavy		#2	
lrky	r	Med.	x	Fast		Fair	x	Moderate		#3	1
uddy		Low		Slow		Poor		Light		#4	10
		Inter.		Slug.				Open	x	#5	125

ample Unit Description: Much large & small rubble has been placed in & immediately adjacent to the stream channel to aid in stability. All cover has been removed & pools are extremely lacking in this stretch of water.

ercent Pools 15 % Stream Width Volume cfs Conductivity 250 mhos/cm

ercent Riffle — % Stream Depth Fish Collected None

(Number & Species)

Sampled by: Seven Sigbert

① Invertebrates
② sm. mayfly, hydrophyche.

② A log wall stabilizer is located 621' above TO.

③ The original channel enters the stream 821' above TO. We shocked 100' on this channel. 2 Class 4 Pools, 2 Class 3 Pools, 1 Class 2 pool & 1 class 1 Pool. Most water is standing with very little flowing water in the channel.

④ Fish in fair-good condition.

⑤ Whitefish in original channel had become stressed - 2 dead.

⑥ Lack of cover, food, & pools in stream that had been channeled.

⑦ No instream debris & low amount on lower banks.

⑧ 90% class 5 pools were @ the edge of the stream w/ no value to fish.

⑨ Bottom material is loosely packed at best.

Bottom Composition.

3% Boulders
80% Small Rubble
30% lg. rubble.
10% lg. gravel.
9% Sm. gravel
3% Sand, Silt, Muck

Photos: Roll 71 #5

exp	f-s	s-s	
18	11	1/60	- top portion of area - looking down
19	11	1/60	- taken near old road X-ing looking down
20	11	1/60	- taken around corner below road X-ing looking down
21	11	1/60	- secondary channel area - source of most fish
22	8	1/60	- log wall structure above first bridge

Nevada, Water Code 1208

STREAM POPULATION SAMPLING

Water Jarbidge River Drainage System JRS County ELKO

Sample No. A-NATURAL Sample Length 250 feet Sample Method energator Location: T R Sec.

Sampling Location Approx 150 feet below bridge crossing USFS Code:

Date: 10-24-29

Fish Species	1+"	2+"	3+"	4+"	SIZE (Metric) 5	6"	+"	9			TOTAL
Rainbow Trout	1	1	6	2	5	1		1			12
Brook Salmon		2	1	2							5
Brown Trout							1				1
f											
TOTALS	1	3	7	4	5	1	1	1			23

Fish Species	Total No.	Ave. Size	% Catch	% (+(jll) +15.2 cm	%(_6") -15.2 cm	% Wild	% Hatch	(+6")/Mile +15.2 cm	(-(jll)/Mile -15.2 cm	Total Fish/ Mile
Rainbow	17	4.06	73.9	11.8		88.2	11.8	42.04	316.8	359.04
Brook Trout	5	3.00	21.7	0	100	100	0	0	105.6	105.6
Brown Trout	1	7.0	4.3	100.0	0	100	0	21.12	0	21.12
f										
TOTALS	23	3.9		13.0	87.0	95.7	4.3	63.36	422.4	485.76

Water Temperature °F 35 °C Air Temperature °F 16 °C Time 955 Elevation

Turbidity: Clear X, Cloudy, Murky, Muddy

Runoff Type: Flood, High, Med. X, Low, Inter.

Stream Type: Torr., Rapid, Fast X, Slow, Slug

Shocking Effic: Excellent, Good, Fair X, Poor X

Stream Cover: Dense, Heavy, Moderate, Light, Open X

Number Pools by Class: #1, #2, #3 1, #4 13, #5 28

Sample Unit Description: Stream has "natural channel" appearance. Flow is fast, largely riffle over small and large rubble. Some stream shading provided by nearby fir, aspen and willow, however immediate bank cover notably lacking. Few quiet resting spots or quality pools. Bank unstable in spots

Stream Width Volume cfs Conductivity 28 mhos/cm

Fish Collected No

(Number & Species)

Sampled by:

Order and Relative Abundance

(A) Mayfly
(C) sm caddis
(O) Stonefly

BottOlll Types

Small & Large rubble, boulder redominately
Coa e.& fine ravel, silt & sand
accumulation in quieter spots

Photos Roll. Film Type

Exposure #	f/stop	Time	Comments

Additional Comments

Apparently recent channalization occurs approx 200'-(150) below (upper) bridge and not to bridge as we intially assumed. Presence of heavy siltation on exposed rubble, gravel bars and presence of established wooly mullien on banks is evidence.

Shocking efficiency very poor due to swiftness of water. It is beli ----- es not ade re re + actual population

Fish Condition- Fair to good, exc pt Dolly Varden which was very poor- thin snake like appearence.

Poor-Fair fishery value due to lack of cover & quality pools. we it established gabins constructed beneath and just above bridge

Field FF 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

ater Jarbridge River Drainage System IRDs County Elko

No. B Channel Sample Length 332' Sample Method Homelite Generator Location: T R Sec.

ampling Location Just below confluence of Pine Creek uSPS Code:

Date: 10/23/79

ish SDedes	6 1/4				SIZE" (Metric)						TOTAL
N H Whitefish	5										5
OTALS											5

ish Species	Total No.	Ave. Size	Catch	% (+6") +1.5.2 cm	% (-6") -1.5.2 cm	% Wild	% Hatch	(+6")/M11e +1.5 2 cm	(-6")/Mile -J5 2 cm	Tolal Fish/ Mile
N H Whitefish	5	6	100	100	0	100	0	79.52	0	79.52
JTALS	5	6	100	100	Ø	100	Ø	79.52	Ø	79.52

ater Temperature OF 4 °C Air Temperature 58 °F °C Time 10:/5 Elevation

rbidity:		Runoff Type:		Stream Type:		Shocking Effic:		Stream Cover:		Number Pools by Class:	
,ear		Flood		Torr.		Excellent		Dense		#1	4
oudy	X	High		Rapid		Good		Heavy		#2	2
rky		Med.		Fast	X	Fair	X	Moderate		#3	3
ddy		Low	X	Slow		Poor		Light	X	#4	19
		Inter.		Slug.				Open'		#5	41

ample Unit Description: This area has been channelized & therefore all of the good pools were eliminated. Cover on the lower banks were also eliminated. However, the bottom material & flow may provide adequate spawning areas.

rcent Pools 7 % Stream Width – Volume cfs Conductivity 280 mhos/cm

rcent Riffle 93 % Stream Depth – Fish Collected" None

(Number & Species)

Order and Relative Abundance

(O) micro mayfly

(R) sm - mayfly sm. rock case caddis

Bottom Types

lg. gravel 40% lg. rubble 5%

sm. rubble 20%

sand silt - 25%

sm. gravel 10%

Photos Ro 11 Film Type

Exposure #	fLstop	Time	Comments
12	8 1/2	1/30	across
13	8	1/30	up
14	8	1/30	down

Additional Comments

Removal of natural channel pattern has changed the stream quite a bit. There are no longer any quality pools or resting areas. All the debris has been removed from the channel area & the water flows rapidly across rubble for 332'. The channelization is still new enough the rocks in the stream are not slick. They have eliminated almost all bends or meanders in the stream & placed rubble on the lower banks to make the area more stable.

Field FF 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

ater Jarbridge River Drainage System JRDS County Elko
ample No. B Nat Sample Length 332, 332 Sample Method Homelite Gen. Location: T R Sec.
ampling Location Pine Ck. camp ground. The top of the channelized area is just below confluence of Pine Ck. The unchannelized is just below the top 332'. USFS Code:
Date: 10/28/79

ish SDecies	1-	1+	2+	3+	4+	5	6	10	11		TOTAL
U ... ...lized Area:											
Rainbow Trout			4	11	11	6	2				24
W"te fish 111orth...								2-	1		3
Sculp: Pinte	3	3	12	1	2	1					27
OTALS	3	3	16	17	13	7	2	2	1		64

64

ish Species	Total No.	Ave. Size	% Catch	% (+6") +15 em	% (-6") -15.2 em	Wild	% Hatch	(+6")/Mile +15.2 em	(-6")/Mile -15.2 cm	Total Fish/ Mile
Rainbow Trout	24	3.7	53.1	5.9	94.1	100	D	31.8	508.9	540.7
North "Whitefish	3	10.33	4.6	100.0	Ø	100	0	47.7	Ø	47.7
Pinte Sculpin	27	2.26	42.2	Ø	100	100	0	0	429.40	429.40
OTALS	64	3.40	Ø	7.8	92.2	100	0	79.5	938.3	1/17.8

ater Temperature °F 4 °C Air Temperature 59 °F 14 °C Time 9:45 Elevation

Jrbidity:
lear
loudy X
'Jrky
,uddy

Runoff Type:
Flood
High
Med.
Low X
Inter.

Stream Type:
'Torr.
Rapid
Fast X
Slow
Slug.

Shoekf.ng Effie:
Excellent
Good
Fair X
Poor

Stream Cover:
Denee
Heavy
Moderate
Light" X
Opcu

Number Pools by Class:
#1 1
#2 1
113 3
#4 9
#5 54

ample Unit Description: Unchannel section bordered by mature aspen, fir and PRVI, Salix, limited cutting up to 3' on channel outcurves. Flow presently at ¼ channel capacity w/ boulder, large and small rubble, gravel banks. 20% of banks are cut thru station.

ercent Pools 40 % Stream Width Volume ",' efs,' Conductivity 286 mhos/cm
ercent Riffle 60 % Stream Depth Fish Collected
, (Number & Species)

lver)

Order Relative jbundance

Abundant: May fly

C m: hydrophyscheI small caddi

Occasional: Large brown + yellow stone fly

Bottom Types

Large rubble 20%, small rubble 30%, boulder 10%, sand, much 10%, coarse gravel 20%, fine gravel 10%

Photos ___ Roll ___ Film Type ___

Exposure #	f/stop	Time	Comments
9	8	1/30	Taken at \.we- end of shocking station up
10	8	1/30	across
11	8	1/30	down

Additional Comments

Unchannelized portion was the "-eo' directly below channeled portion. Unknown fish: 9 White fish taken from CT pools. Sculpin located in fast riffle areas and in bottoms of sandy pools. Rainbow distributed thru out in better pools and slack ripple areas. Pine (rock camp ground) lies on the right bank of the area shocked. Bank vegetation appears to stabilize channel during all but high spring -!c. off. Livestock use is only moderate in rip...ran zone which is open enough in all locations to walk thru. Algae in stream is lacking. Stream bottom well imbedded in established pools lose in temporary secondary channels w/ in main channel. Body condition of all Rainbow = good; same w/ other species. % of Sculpin detected and captured was low.

Nevada Water Code 12 08

STREAM POPULATION SAMPLING

Water Jarbridge River Drainage System JRDS County Elko

No. 2 Channelled Sample Length 130' Sample Method Homelite Generator Location: T R Sec.

Sampling Location At the Jarbridge camp & picnic area. Section ends just before bridge crosses the creek. USPS Code:

Date: Wed. 10/24/79

Fish Species											TOTAL
Rainbow Trout	3	1									4
TOTALS	3	1									4

Fish Species	Total No.	Ave. Size	% Catch	% (+6") +15.2 cm	% (-6") -15.2 cm	% Wild	% Hatch	(+6")/Mile +15.2 cm	(-6")/Mile -15.2 cm	Total Fish/Mile
Rainbow Trout	4	3.25	100	0	100	100	0	0	121.8	121.8
TOTALS	4	3.25	100	0	100	100	0	0	121.8	121.8

Water Temperature 6.5 °C Air Temperature °F 7.7 °C Time 11:30 Elevation

Turbidity:
Clear
Cloudy x
Murky
Muddy

(Number & Species)

Invertebrate Sample Data _____

Order and Relative Abundance

(O) mayfly

(R) stonefly, sm. caddis, stick caddis, hydrosphyche

Photos **Roll** _ **Film Type** _____

Jarbridge #1

Exposure #	f/stop	Time	Comments
3	1.L	1/60	up
4	"	1/60	

Additional Comments

① Station Location: At the Jarbridge camp & picnic area immediately below where bridge crosses the stream.

② Lack of cover, pools & food.

③ Imbeddedness is loose w/ no silting in

④ Most fish found in fast ripple area

⑤ Fish in fair-good condition.

⑥ Poor shocking efficiency maybe the result of low numbers of fish: also station in campground probably has high fishing pressure.

Field FF 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

Water Jarbridge River Drainage System JRDS County Elko

Sample No. 2 Not Sample Length 130' samPl.e Method Homelite Generator Location: T R Sec.

Sampling Location Directly below channelled area @ the Jarbridge camp & picnic area. usrs Code:

Date: Wed. 10/24/79

Fish Soeeies	2+	3+	4	5+(Metric)	6	7	8	9			TOTAL
Pinto Sculpin	1										7
Rainbow		1		1							2
Dunkn						1		1			2
TOTALS	1	1		1		1		1			5

Fish S"ecies	Total No.	Ave. Size	% Catch	% (+6") +15.2 em	% (-6") -15.2 em	% Wild	% Hatch	(+6")/Mile +15 2 em	(-6")/Mile -15 2 cm	Total Fish/ Mile
Pinto Sculpin	1	2	20	0	100	100	0	0	40.	40.6
Rainbow Trout	2	4.0	40	0	100	100	0	0	81.2.	
Unk [illegible]	2	8.0	40	100	0	?	?	.2	0	81.2
TOTALS	.S	5.2	-	40	60			81.2	121.8	203.0

Water Temperature 43 °F 6.1 °C Air Temperature °F 17 °C Time 12:30 Elevati.on

Turbidity:	Runeff Type:	Stream Type:	Shoeldng Erne:	Stream Cover:	Number Poole by Class:
Clear	Flood	Torr.	Excellent	Dense	#1
Cloudy X	High	Rapid	Good	Heavy	#2 2
Murky	Med.	Fast X	Fair X	Moderate X	#3 2
Muddy	Low X	Slow	Poor	Light	#4 5
	Inter.	Slug.		Open	#5 17

Sample Unit Description: Majority of the reach is at a bend in the stream where several quality pools are located w/ bedrock serving the lower banks. The rest of reach is a ripple area w/ some small pools.

Percent Pools 40 % Stream Width Volume era Conducti.vity 30 mhoe/cm

Percent Riffle 60 % Stream Depth Fish.Collected'" None

(Number & Species)

Invertebrate Sample Data

Order and Relative Abundance	Bottom Types	
(A) mayfly	5% bedrock	30% small rubble
(C) sm. caddis, hydrosphyche	15% boulder	15% lg rubble
(O) stonefly	0	
(R) stick caddis	5% fi	

Photos Roll Film Type

Exposure #	f/stop	Time	Comments
1	11	1/60	up
2	11	1/60	down

Additional Comments

Station location - just below the channelled portion at the Jarbridge camp & picnic area

② Poor-fair shocking efficiency due to rapid water flow.

③ Most fish found in riffle area rather than pool, probably because shocking efficiency was so poor in the deep fast pool

④ Fish in good condition

One nice long deep pool against boulder bank (impossible to channeli very desirable habitat - area probably recieves heavy fishing pressure due to proximity to campground -

Nevada Water Code 1204

STREAM POP\ILATION SAMPLING

Water Jarbidge River . . Drainage System JRS . County Elko Co

Sample No. F-Channalized Sample Length 145 feet Method Homelite Generator

Sampling Location Begins above bridge ~~[illegible]~~ below town of Jarbidge

Location: T R Sec.

USIS Code:

Date: 10-24-79

Fish Species	1+"	2+"	6+"	SIZE (Metric)							TOTAL
Sculpin	3	2									5
Dolly Varden			1								1
TOTALS											

Fieh Species	Total No.	Ave. Size	% Catch	% (+6") +15.2 em	% (-6") -J5.2 em	% Wild	% Hatch	(+6")/Mile +J5.2 cm	(-6")/Mile -J5.2 cm	Tolal Fish/ Mile
Sculpin	5	2.33	83.3	0	100	100	Ø	Ø	182.07	)82.07
Dolly Varden	1	6.00	16.7	100	Ø	100	Ø	36.4	Ø	36.4
TOTALS	6	2.94	100.0	16.8	83.2	Ion	Ø	36.4	07	218.47

Water Temperature °F 9 °C Air Temperature °F 19 °C Time 1515 Elevation

Turbidity: Clear X, Cloudy, Murky, Muddy

Runoff Type: Flood, High, Med., Low X, Inter.

Stream Type: Torr., Rapid, Fast X, Slow, Slug.

Shocking Effic: Excellent, Good, Fair, Poor X

Stream Cover: Dense, Heavy, Moderate, Light, Open X

Number Pools by Class: #1, #2, #3, #4 9, #5 23

Sample Unit Description: Small stretch of channalized stream. Flow is re ric to y. narrow (ha with "shoved" rubble banks extending for approx. o ride. Fast riffling we it ery few pools. Stream is entirely exposed ~~[illegible]~~ on immediate banks

Percent Pools 20 % Stream Width Volume cfs. Conductivity mhos/cm

Percent Riffle 80 % Stream Depth Fish Collected NO

(Number & Species)

Sampled by: [illegible]

Invertebrate Sample Data

Order and Relative Abundance

(O) small mayfly

(R) small stonefly, Hydrophyce

Notably few invertebrates

Bottom Types

small rubble

large rubble

20% fine & coarse gravels

10% sand, silt.

Photos Roll Film Type

Exposure # f/stop Time Comments

Photos: Roll Fairbridge #1

Exp	Subject	F	S.S.
5	up	5.6	1/60
6	Down	5.	1/60

Additional Comments

Bulldozed bottom material is almost 50-50 rubble and sand (+ gravels) - Bottom material is quite loose.

In upper stretch of channalized area flow is fast riffle with almost no pools or "resting" areas. Below this area, flow is wider and some shallow resting areas (possibly suitable for fry) occur along stream edge. A tall, but narrow riparian zone of aspen & willow boarder gravel, rubble banks.

Nevada Water Code 1208

STREAM POPULATION SAMPLING

ater Jarbridge River Drainage System JRDS County, Elko

No. E-Nat Sample Length 145' Method Homelite Generator ,Location: T R Sec.

ampling Location Directly above channeled section above the bridge below Jarbridge USFS Code:

Date: Wed. 10/24/79

ish Soeeies	SIZE 1	2	3	4 (Metric)	5	6	7	8			TOTAL
Rainbow Trout	5	6	10	4	2	2		1			30
Pinto Sculpin	2	1	4								7
OTALS	"	"	10	4	2	2		1			37

'ish Species	Total No.	Ave. Size	Catch	% (+(i") +15.2 cm	% (-6") -15.2 cm	% Wild	% Hatch.	(+6") /Mile +15.2 cm	(_(ill) /Mile -15.2 cm	Total F1 "hi Mile
Rainbow Trout	30	3.1	81.	10	90	100	6.7	109.2		1092.38
Pinto Sculpin	7	2.28	18.9	Ø	100	100	Ø	0	254.89	254.89
OTALS	37	2.9		8.1	91.9	94.6	5.4	109.2	1278.47	1347.2

ater Temperature °F 9 °C Air Temperature °F 19 °C Time' 1515 Elevllli,on

.'rbidity:	Runoff Type:	Stream Type:	Shodd-DE Effie:	Stream Cover:	Number Pools by Cless:
lear	Flood	Torr.	Excellent	Denee	#1
loudy X	High	Rapid	Good	Heavy	#2 1
lrky	'Med.	Fast X	Fair X	Moderate	#3 1
uddy	Low X	Slow	Poor	Light	#4 2
	Inter.	Slug.		Open X	#5 2

ample Unit Description: In this section many good quality pools were formed by 2 rock d man made structures com- stream. Other areas are riffle areas over rubble. There a lack of cover.

ercent Pools 40 % Stream Width Volume cfs ConductivHy 47 mhos/cm

ercent Riffle 60 % Stream Depth Fish Collecte4 None

(Number & Species)

Sampled by: Sinhard Hewitt

Order and Relative Abundance

(a) mayfly

(B) stonefly & hydrosphyche

Bottom Types

Small Rubble	35%	Silt	5%
Lg. Rubble	25%	Fine Gravel	3%
Bould	20%	Sand	2%
Coarse gravel	10%		

Photos R011 - **Film Type** - Jarbridge #1

Exposure #	**f/stop**	Time	**Comments**
1	5.6	1/60	up
8	5.6	1/60	down

Additional Comments

① rocks are very slick & quite a bit of silt buildup in the pools.

② There is a definite lack of pools & food for the fish in this area. Underground river from mine flows in above this area

③ Imbeddedness is loose — moderate packing.

④ Stream gradient is ≈ 5%

⑤ Fish "n Air — good condition

Field FF 104

Nevada Water Code 1208

* These fish shocked in 100ft of water retained in original chann I (not part of channelized flow).

STREAM POPULATION SAMPLING

Water Jarbidge River Drainage System TRS County ELKO

Sample No. G-Channeled Sample Length 8.76' S8lllpleMethod Generator - (ole! Green) Location: T R Sec.

Sampling Location Small inroad (camp spot cated at bas of Mahoney Ranger station. am in is directly above road USFS Code:

Date: 10-25-79

Fish Species	It/	2t"	3t"	4t" (Metric)	5t"	6t"	7t"	8t"	9t"	10t"	11t"	TOTAL
Rainbow trout	(*5) 1	(*4) 2	(*) 4	(*2) 2	(*7) 5	(*1) 2	(*2)	(3) 1	2	(*1) 2		108 (32*)
Pinto Sculpin	(*6) 3	(*5) 7										13 (11*)
Northern Whitefish								2	6	16	1	11
"												
"												
"												
"												
TOTALS	4 (11*)	9 (9*)	7 (7*)	2 (2*)	5 (7*)	2 (1*)	(2*)	2 (3*)	8	(8 1*)	1	149 (43*)

over for hatch fish →

Fish Species	Total No	Ave. Size	7. Catch	% (+6") +15.2 cm	% (-6") -15.2 cm	% Wild	% HAtch	(+6") IMile +15.2 cm	(-6") IMile -15.2 cm	Total Fish/ Mile
Rainbow trout	21	5.14	42.8	33.3	66.6	70.2	23.8	42.1	8.38	126.5
Pinto Sculpin	13	1.69	26.5	0	100	100	0	Ø	7.36	78.3
Northern Whitefish	15	9.4	30.6	10.0	Ø	100	1	90.4	"	90.4
Rainbow trout *	32*	4.09*	74.1*	1.8*	78.1*	81.7*	9.3*	369.6*		1689.6
Pinto Sculpin *	11*	1.45*	2.1*	*	100*	100	0*	Ø*	580.8*	580.8*
TOTALS*	43*	3.41*	46.8*	16.3*	83.7*		6.9*	369.6*	1900.8	2270.4*
TOTALS	49	5.5	53.2	44.9	45.1	89.8	10.2	132.59	162.74	295.34

Water;Temperature' °F 7 oc Air Temperature °F 15.5 °C Time 1100 Elevation

Turbidity: Clear; X Cloudy Murky Muddy

Runoff Type: Flood High Med. X Low Inte-r-.----

Stream Tyoe: Torr. Rapid Fast X Slow Slug

Shocking Effic: Excellent Good Fair Poor X

Stream Cover: Dense Heavy Moderate Light Open X

Number Pools by Class: #1 #2 #3 // #4 //// #5 ////

Description: The majority of the flow has been diverted to a single channel on the bank and is mostly narrow fast riffle over rubble. Several nice pools are formed by "shoved" debree at upper end of channalized area. left bank is slipping & caving into channel.

Sample Unit

Pools 5' Stream Volume cfs Conductivity 40 mhos/cm

Pereent Riffle 95 % Stream Depth Fish Collected No

(Number & Species)

Sampled by:

(Over)

Order and Relative Abundance	Bottom Types
(R) sm sticcoaddis, mayfl	25% Coarse gravel
	25% Small rubble
	20% Large rubble
	15% Fine Gravel
	10% Boulder
	5% Sand

Photos Roll Film Type

Exposure # f/stop Time COIIIIIents

	Exp	S.S.	F			Pools Class	
				*At lower end of channalized stretch some water has been retained in the original channal and is not part of the fast riffle in the bulldozed channal. The adjacent pool information pertains to this area (approx. 100' in length).			
Ac	9	1/15	8		100'+	2	
UP	10	"	"		10% riffle/90% pool	3	1
Down	11	"	"			4	1
						5	

Additional Comments Fish condition was good, whitefish were ripe both ♂ ♀

Channeled area is located in wide gravel/rubble "floodplain" bed. Numerous old channels are evident adjacent to the channalized flow. Considerable bank caving and sloughing has occured on left banks. Right banks (entirely exposed rubble/gravel) are more stable. Flow is fast and few pools exist over much of channalized area, however some downed tree debree at upper end forms excellent cover. This area appears to have recieved considerable past flood damage as indicated by numerous channels and debree jams and exten(ve rubble/gravel bar formations.

Hatchery Fish: 3(8")) 2(9"), 3(10") Rainbows — Good condition

Field II 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

Water Jarbidge River Section G unchanneled Drainage System J R DS County Elko

Sample No. G Sample Length 250' Sample Method Hollingsworth Generator Location: T R Sec.

Sampling Location This section is the 250 area located directly above the recent channel work which parallels the campground directly above Mahoney Ranger Station USPS Code:

Date: Thur. Oct. 25, 1979

Fish Speciell	1	?	3	4 fl1etric'	5	6	8	11			TOTAL
R[illegible]		3	8	4	4	2	1				22
Norther Whitefish							11-[illegible]	1			2
Pinto S[illegible]	2	4	5	1							12
		-									
TOTALS	2	7	13	5	4	2	2	1			36

1'ish Species	Total No.	Ave. Size	% Catch	% (+6") +15.2 cm	% (-6") -15.2 cm	% Wild	% Hatch	(+6") 11·1ile +15 2 cm	(-6")/Mile -15.2 cm	Total Fish/ Hile
R[illegible]	22	3.91	61.1	13.6	86.4	90.9	9.1	63.36	401.28	464.64
Northern Whitefish	2	9.5	5.5	100	Ø	\On'	Ø	42.24	Ø	42.24
P[illegible] S[illegible]	12	2.42	33.3	0	100	100	Ø	Ø	253.44	253.44
TOTALS	36	3.72		13.9	86.1	94.5	5.5	105.6	654.72	760.3

Water Temperature °F 10 oC Air Temperature °F 14 °C Time 10130 Elevation

Turbidity:	Runoff Type:	Stream Type:	Shocking Effie:	Stream Cover:	Number Pools by Class:
Clear X	Flood	Torr.	Excellent	Dense	#1
Cloudy	High	Rapid X	Good X	Heavy	#2
Murky	Med. X	Fast	Fair	Moderate	#3
Muddy	Low	Slow	Poor	Light X	#4
	Inter.	Slug.		Open	#5 35

Sample Unit Description: At the head of sample is a 35' cascade riffle area w/ undercut banks on the left bank this runs into a glide w/ pools on both sides formed by [illegible] llow. The channel [illegible] ins open w/ boulder rubble on both banks for 100' where [illegible] are [illegible] both banks creating side pools and undercut bank cover

Percent Pools 35 % Wid Volume efs Conductivity 40 mhos/cm

Percent Riffle 65 % Stream Depth Fish Collected None

(Number & Species)

Invertebrate Sample Data

Order and Relative Abundance	Bottom Types
C): Small mayfly, stonfly caddis	Boulder 7%, L. Rubble 50%, S. Rubble 15%, L. Gravel 13%
O): Hydrophysche, new bug? flat black	S Gravel 10%, Sand 3%, Silt 2%
cases of locomotion attached to rocks	
on one end, dorsal view [redacted] side view [redacted]	

Size 1x1

Photos Ro11 Film Type

Exposure #	f/stop	Time	Comments
13	8	1/60	
13	8	1/60	
14	B	1/60	lower pool at bottom of section

Additional Comments

① At the bottom of this section and the end of the channelized section a quality pool wi 3½ foot depths and abundant willow cover can be found. The majority of this pool was checked as being in the channelized section because bulldozer pushed willow into the pool. ② Fish condition excellent. ③ Both Cu Rb were hatchery fish - indicated by worn dorsal fins both were good looking trout. ④ Sculpin were difficult to detect in fast water ⑤ Riffle areas were fast moving and were riffles (i.e. riffle vs. ripple) ⑥ Rubble and Boulder deposited from past high floods were found on both banks w/ sand and coarse gravel. ⑦ Within valley bottom of 170 Meters stream followed West side w/ small willow and aspen riparian west of channel, 50 Meter band of cottonwood aspen alder juniper away from flood plain on East side

Channeled 10/1974 Data from channelized Reaches

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Office FP 10SB
Water Code ____
of Forms

cream | Drainage Syatem | Sample Location T R Sec. | County | Survey Station No. | Date of Survey

and Status | Land Agency Uni.t Name | Investigators

Game Fish Species | Non Game Fish Species | Endangered-Threatened Species

Water Surface					.Pools				Stream Bottom													Stream Bank: Imbed.			Left Bank					Ri ht Bank				
Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Small Gravel	Large Gravel	Small Cobble	Large Cobble	Boulders	Bedrock	Dominant	Imbed.	Size	Cover	Stability	Landform Gradient	Vegetal Cover	Riparian Zone	Cover	Stability	Landform Gradient	Vegetal Cover	Riparian Zone
11	12	13	14	15	15	17	18	19	20	21	22	23	24	25	26	27	28	29	10	31	12	33	34	35	15	17	38	39	40	41	42	43	44
G	36.6	a,e		112					.3					1.0	2.9	7.0	12.5	11.3	1.6					19	(	117			10	5	44		
F	22.9	44.0		53	3.8								.3	1.3	2.2	5.3	10.7	3.1						8	4	18			8	4	10		
E	18.5	35.7		33	1.8								.2	1.5	3.7	4.3	6.4	1.8	1.6					7	0	34			S	0	19		
B	30.5	50.8		86	4.3								.7	2.8	5.2	8.7	9.9	3.8						14	2	"0			9	5	35		
il	60.	121.		204	4.3								1.4	2.9	6.6	17.4	11.1	17.5	4.2					18	14	239			23	13	400		
	17.4	[illegible]		488	14.2				3				1.6	9.5	20.6	40.1	56.8	37.9	6.4					66	21				S5	27			

37 samples

,ccess Temperature; Water Air ____ Time Weather Elevation ____
Turbidity State Water Quality Class ____ Discharge (cfs)' Water Chemistry Analysis Type ____
Beaver Activity Status Geological Land Form Vegetative Type
Valley Bottom Width Geology Gradient Velocity Streamflow Type ____
% Stream Shaded Ungulate Class Ungulate Use Fish Population Sampled
Invertebrates Photo Points: Upstream ____ Downstream Cross Channel General ____
Tegetative Species ____
Fishery Quality ____ Reason ____
'ollution Problems ____
,ongitude ____ o ● . Latitude o ●

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Water Code ____ of ____ Forms

eam	Drainage System	Sample Location	County	Survey Station	Date of Survey
	River TRDS	T K Sec.	Elko	No. # (Mainfed	10/26/79

d Status	Land Agency Unit Name		Investigators
USFS	Humboldt National Fo[illegible]		Siebert, Sevon Wernsing Hewitt

e Fish Species	Non Game Fish Species.	lEndangered-lbreatened Species	U.S.F.S. Stream Code
Whitefish Rainbow	Sculpin	None	

Number	Water Surface: Water Width	Channel Width	Riffle Class	Average Depth	Pools: Width	Class	Feature	Location	Stream Bottom: Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Fine Gravel	Coarse Gravel	Small Rubble	Large Rubble	Boulders	Bedrock	Stream Bank: Imbed. Dominance	Imbed.	Size	Left Bank: Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Right Bank: Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd
1	12	U	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	3.7	5.1	4	14	.5	5	/	L	-	-	-	-	-	.2	;5	.9	.9	.9	,3	-	3	4	3	7	\	4	4	0	7	\	5	4	0
2	2.9	4.9	4	13	-	-	-	-	-	-	-	-	-	-	.2	.4	.3	.9	1.1	-	3	4	3	7	V	4	4	0	7	/	4	4	0
3	3.9	7,3	3/4	13	.5	5	/	R	-	-	-	-	.2	.5	.7	.7	1.1	.7	-	-	3	3	3	7	\	3	4	0	11	\	14	4	0
3	-	-	-	-	.4	5	,	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	/	-	-	-	-	/	-	-	-
3	-	-	-	-	8	5	1	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\	-	-	-	-	\	-	-	-
4	3.7	5.9	3/4	15	.5	4	1	L	-	-	-	-	-	.2	.2	1.1	.6	1,3	.3	-	3	3	2	2	V	5	4	3	.1	V/S	4	7
5	4.2	7.3	3/4	13	-	-	-	-	-	-	-	-	-	.4	18	.9	1.4	.7	-	-	3	4	3	6	\	19	4	7	7	\	7	4	0
6	5.2	6.9	3/4	11	-	-	-	-	-	-	-	-	.2	.5	1.3	1.1	1.1	1.0	-	-	2	4	3	7	V	33	4	0	7	/!	7	4	0
7	6.5	9.3	3/4	10	-	-	-	-	-	-			-	.4	.1	4.1	.7	.7	.4	-	3	5	3	7	\	35	4	0	7	\	2	4	0
8	3.6	6.8	4	13	.2	5	1	R	-	-	-	-	-	.2	.6	.6	2.2	-	-	-	3	4	3	7	/	10	4	0	7	/	9	4	0
9	3.7	8.2	4	13	.3	5	/	R	-	-	-	-	-	-	-	.7	1.0	1.5	.5	-	3	4	3	7	\	11	4	5	7	\	87	4	0
10	3.9	6.5	4	12	.3	5	1	L	-	-	-	t-	-	.2	.5	.9	.3	1.8	.2	-	3	4	2	7	1/	12	4	0	7	/	70	4	0

1 Clear & cool

bidity Clear State Water Quality Class ____ Discharge (cms) 15.7 Water Chemistry Analysis Type ____

ver Activity Status none, unsatis Geological Land Form U A! Vegetative Type ____

J.ey Bottom Width ?Om" Geology ____ Gradient(%) Velocity____m/sec Streamflow Type No riparian to speak of

cream Shaded 0 Ungulate Class cattle Ungulate Use Fish Population Sampled yes

ertebrates m Photo Points: Upstream ,D stream Cross Channel pop, General

etative Species

lery Quality

'.ution Problems

;itude ____ La tude ____

Cont. Channel II

Office FF 1058
Water Code ____
of Form

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream	Drainage System	Sample Location T R Sec.	County	Survey Station No.	Date of Survey
Jarbidge River	JRDS		Elko	Channel A	10/26/79

Land Status	Land Agency Unit Name	Investigators
USFS	Humboldt National Forest	Siebert Sellon Wenzing Hewitt

Fish Species	Non Game Fish Species	Endangered Threatened Species
Whitefish Rainbow	Sculpin	None

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Frequency 18	Pools Location 19	Aquatic Vegetation 20	Organic Debris 21	Muck 22	Clay 23	Silt 24	Sand 25	Fine Gravel 26	Coarse Gravel 27	Small Rubble 28	Large Rubble 29	Boulders SO	Bedrock 31	Imbed. Dominant 32	Imbed. Subdom 33	Imbed. Sub-sub 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Width 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Width 44
11	4.2	7.7	4	13	—	—	—	—	—	—	—	—	—	.3	.6	1.4	1.5	.4	—	—	3	4	3	7	\	71	4	1	8	\	85	4	0
12	5.6	8.8	4	15	.8	4	J	R	—	—	—	—	—	—	.4	1.2	1.9	1.8	.3	—	3	4	3	7	/	15	4	5	6	V	41	4	5
13	3.1	8.3	"	13	—	—	—	—	—	—	—	—	—	—	.1	4	1.1	.7	.8	—	3	5	2	7	\	10	4	8	7	\	25	4	5
14	4.0	9.8	4/3	11	—	—	—	—	—	—	—	—	—	—	.1	.7	1.3	1.9	—	—	3	4	2	7	/	25	4	0	6	/	18	4	3
15	4.8	8.7	4/3	3	—	—	—	—	—	—	—	—	—	—	—	1.9	1.7	2.2	—	—	3	4	2	7	\	28	4	1	7	\	10	4	10
16	3.1	9.5	4	12	—	—	—	—	—	—	—	—	—	—	.4	.4	1.0	1.0	.3	—	3	4	2	7	V	14	4	8	7	/	10	4	10
	16.1	1010		204	4.3								.4	2.9	6.6	17.4	17.1	17.5	4.2					18	14				23	1/3			

ccess Temperature; Water ____ Air ____ Time ____ Weather _____ Elevation ____
urbidity State Water Quality Class' Discharge (cis) 13.77 Water Chemistry Analysis Type _____
eaver Activity Status ____ Geological Land Form Vegetative Type
'alley Bottom Width Geology Gradient Velocity .98 cfs Streamflow Type
Stream Shaded Ungulate Class Ungulate Use Fish Population Sampled _____
nvertebrates Photo Points: Upstream Downstream Cross Channel General
egetative Species
ishery Quality Reason
ollution Problems
:>ngitude ____ ____ ° Latitude °

Office FF 105B
Water Code _____
of Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream	Drainage System	Sample Location	County	Survey Station	Date of Survey
Jarbidge River	JRDS	T R Sec.	Elko	No. SR - [illegible]	Thr 10/25/79

Land Status	Land Agency Unit Name	Investigators
	H. [illegible] Natl Forest	Seibert + Sevo

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species
Rainbow Whitefish Dolly Varden	S. [illegible]	

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Transect Number	Water Width	Channel Width	Riffle Class	Average D-Pth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	0.1-1" Fine Gravel	Coarse 1-3" Gravel	Small 3-6" Rubble	Large 6-12" Rubble	12" Boulders	Bedrock	Dominance	Imbed.	Size	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd OCN
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	21	28	29	30	31	32	33	34	35	36	31	38	39	40	41	42	43	44
1	6.4	9.2	4	15	.9	5	1	L	-	-	-	-	.5	11	2.5	.8	.4	.2	-	-	2	4	4	1	/	36	4	3	2	\	2	4	7
\					.5	5		L																	\					/			
2	4.6	8.6	4	14	.4	5	1	C	-	-	-	-	-	.4	.5	1.9	1.5	.3	-	-	3	5	3	.7	/	19	4	4	7	\	1	4	5
2					.4	5	1	R																	\					/			
3	5.8	9.0	3	13	.4	5	1	R	-	-	-	-	-	.7	1.3	1.8	2.0	-	-	-	3	4	3	2	/	7	4	7	7	\	3	4	6
3					.4	5	1	C																-	\	-				1/			
3					.3	5	\	L	-										-					-	/					\	-	-	
4	4.5	6.6	3/4	13	.4	5	\	C					.2	.3	.8	.9	1.8	1.0			3	4	3	6	\	19	4.	3	7	/	9	4	3
4	-				.5	5	1	L																	/					\			
5	4.3	8.5	1/4	16	.2	5	1	L	-	-	-	-	-	.4	.3	11.2	1.7	.7	-	-	3	4	13	4	\	19	4	5	7	V	6	4	0
6	4.9	8.9	3/4	15					-	-	-	-	-	-	.3	.5	2.5	1.6	-	-	3	4	3	8	/	20	4	3	7	\	14	4	0
	30.5	[illegible]											.7	2.8	5.2	8.1	9.9	3.8						14	2				9	5			

Access 2 Temperature; Water 6°C Air 11°C Time 1:30 Weather 100% cloudy cool + windy Elevation _____
Turbidity State Water Quality Class ____ Discharge (cfs) .585..... Water Chemistrf Analysis Type _____
Beaver Activity Status U U GeolClgical Land Form U-A Vegetative Type _____
Valley Bottom Width 7q M Geology Gradient 1+4 Velocity." m/s Streamflow Type Fast
% Stream Shaded 50 Ungulate Class Cattle UngUlate, Use light Fish Population Sampled Yes
Invertebrates See pop f[illegible] Photo Points: Upstream Downstream Cross Channel General
Vegetative Species ABLA, POTR, POFR, SALIX, CERCO, J" [illegible] PRVI, FONTIN
Fishery Quality Poor Reason lack of pools + cover
Pollution Problems _____
Longitude ____ Latitude

X,

. 'NEVADA DEPARTMENT OF FISH AND GAME
'. STREAM HABITAT SURVEY FORM

Water Code of For

Stream [illegible] | Drainage sys,tern FRS | Sample Location T 'R Sec | County Elko Co | Survey No. Station E-Channeled | Date of Survey 10-24-79

Land Status USFS | Land Agency Unit Name [illegible] Range District | Investigators Green-Hewitt

Game Fish Species Rainbow-Dolly Var-W. Fish | Non Game Fish Species [illegible] | Endangered-Threatened Species None | U.S.F.S. Stream Cod

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Trans. Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Gravel	Coarse Gravel	Small Rubble	Large Rubble	Boulder	Bedrock	Dominance	Imbed.	Size	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian
n	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	31	38	39	40	41	42	43	4
02	5.6	11.7	4	11			—						2	.4	.6	2	1.7	4	3		3	3	1	8	-	12	4	8	8	-	6	4	1
03	5.8	12.3		12	.5	5	1	L						.2	.4	1.8	2.3	.8	.3		3	3	1	4	-	9	1	8	8	-	6	4	5
[illegible]					.4	5	)	C																									
					.4	5	J	R																									
07	7.1	111.7	3	10	1	5	1	L						.9	2.7	.5	2.4	.6			2	2	3	4	-	13	4	JIJ	4	-	7	4	20
	J				.4	5	1	C																									
	18.5	35.7		33	1.8								.3	1,5	37	4.3	6.4	1,8	.6					7	0		12	26	5	0		12	40

Access 5 Temperature; Water on Pop Air on Pop Time 1518 Weather [illegible] light wince Elevation ____
Turbidity clear State Water Quality Class ____ Discharge (cms) . Water Chemistry Analysis Type
Beaver Activity Status None present Geological Land Form Canyon Vegetative Type Green-Juniper-Sa
Valley Bottom Width -100 M Geology Gradient (%) 4-3% Velocity ____ m/sec Streamflow Type med-Low
% Stream Shaded Ungulate Class deer (?) Ungulate Use light Fish Population Sampled Yes
Invertebrates on Pop Form Photo Points: Upstream on Pop Downstream on Pop Cross Channeled on Pop General
Vegetative Species [illegible] Chno [illegible]
Fishery Quality Poor Reason nalization- ack of ols & cov r- entirely riffle & ripple
Pollution Problems None apparent
Longitude, ____ Latitude ____

X.

Office FF 1058
Water Code ____
of For

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY .FORM

tream	Drainage System	Sample Location	County	Survey Station	Date of Survey
Jarbid•• River W.F	JRDS	T R Sec.	Elko	No. SF channelized	10/25/79

.and | Land Agency Unit Name: Humboldt Forest - Jarbidge Ranger Dist | Investigators: Siebert Sever

"ame Fish Species, Rainbow, Dolly Varden | Gime Fish Species: Sculpin | Endangered-Threatened Species

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Transect Number	Wht = Width	Channel Width	Riffl •Clas •	Average Depth	Width	Class	Feature	Locat =	Aquat s Vegetat =	Organic Debris	Muck	Clay	Silt	Sand	0.1-1" Fine Gravel	Coa se 1-3" Gra el	Sma l 3-6" Rubbl	Lar 6-12" Rub	Boulders	Bedrock	Dominance	Imbed.	Si ●	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone
111	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	SO	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	8	11.6	3/4	12	.5	5	1	C	—	—	—	—	1.2	.2	1.0	1.6	3.7	2	—	—	3	4	3	3	/	4	4	2	3	\	2	4	3
							1	L	—	—	—	—	—	.8	1.2	).3	9.0	—	—	—	3	4	3	3	\	2	4	2	3	/	1	4	2
							1	R			1,-														/					\			
3	3.9	9.7	3			15	1	L	—	—	—		—	—	—	"	1.4	1.3	—	—				7	\	5	4	10	7	V/	\	4	10
4	3.7	8.9	3/4	16	.7	5	1	L						.3		(.2	1.6	.6		—				7	/	7	4	10	7	\	6	4	10
																									\					V			
																									V					\			
																									\					/			
																									1/					\			
																									\					1/			
																									/					\			
	21.9	14.0		5 3	3.8								1.3	1.3	2.2	5.3	10.7	3.1						8	4		16	4	8	4		16	5

"cess 2 Temperature; Water 75°C Air 16°C Time 1600 Weather Cool Elevation ____
urbidity CLR State Water Quality Class ____ Discharge (ds)' Water Chemistry Analysis Type ____
eaver Activity Status U U Geological Form Vegetative Type
"alley Bott,om Width 100M Geology Gradient 2+4% Velocity Streamflow Type
Stream Shaded 0 % Ungulate Class Cattle Ungulate Use none Fish Population Sampled Yes
nvertebrates e 0 Photo Points: Upstream' Downstream Cross Channel General
agetative Species SALIX, POTR, ALNU,
ishery Quality poor ,Reason lack of pools fast water no cover
ollution Problems
ongitude • • Latitude • .

X

Transects 100' apart

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Water Code ____ ____ of ____ Forms

Stream	Drainage System	Sample Location	County	Survey Station No.	Date of Survey
Jarbidge River	JRS	T R Sec.	Elko Co.	G-Channeled	10-25-79

Land Status	Land Agency Unit Name	Investigators
	Jarbidge Ranger Dist.	Weinsing-Hewitt

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species	U.S.F.S. Stream Code
W. Fish - Rainbow-1.4			

Water Surface | Stream Bottom | Stream Bank

Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Pools: Width	Pools: Class	Pools: Feature	Pools: Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Fine Gravel	Coarse Gravel	Small Rubble	Large Rubble	Boulders	Bedrock	Imbed. Dominance	Imbed.	Size	Left Bank Cover	Left Bank Stability	Left Bank Landform Gradient	Left Bank Ungulate Damage	Left Bank Riparian Zone Wd	Right Bank Cover	Right Bank Stability	Right Bank Landform Gradient	Right Bank Ungulate Damage	Right Bank Riparian Zone Wd
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
01	4.8	17.2	3	13											.4	1.7	2.2	.5			3	4	3	4	-	12	4	2	4	-	5	4	30
02	5.6	15.2	4/3	14										.1	.8	1.4	2.1	1.4			3	4	3	4	-	10	4	4	8	-	5	4	15
03	6.5	9.9	4/3	12	.6	4	2	L							.6	.9	2.5	2.5			3	4	2	2	-1/5	4	3	7	-	6	4	8
04	3.9	7.2	4	13											.3	.8	1.2	1.6			3	4	2	16	-	10	4	0	7	-	6	4	2
05	2.0	5.2	4	17	.4	5	4	L	.3					.2		1.1	.6	.9			[illegible]	-	[illegible]	6	-	16	4	3	8	-	5	4	2
06	4.3	10.0	4/3	12	.6	5	1	L						.2	.3	.8	1.8	1.2			3	4	2	7	-	10	4	1	7	-	3	4	3
					.3	5		R																									
07	4.5	9.9	4	12	.4	5	1	L						.1	.3	.8	1.4	1.5	.4		3	3	3	4	-	12	4	0	7	-	6	4	5
08	4.8	6.4	4/3	19										.4	.2	.6	.7	1.7	1.2		3	3	3	4	-	32	4	2	7	-	8	4	10
	36.6	81.0		112					.3					1.0	2.9	7.0	12.5	11.3	1.6					19	1				10	5			

Access 5 Temperature; Water on Pop → Air ____ Time 1445 Weather Overcast, cool Elevation ____

Turbidity [illegible] State Water Quality Class ____ Discharge (cms) ____ Water Chemistry Analysis Type ____

Beaver Activit, Status None present Geological Land Form Canyon Vegetative Type Aspen, Juniper

Valley Bottom Width 90 M Geology ____ Gradient (%) 3-5 Velocity m/sec Streamflow Type - low

% Stream Shaded < 5% Ungulate Class deer (?) U,ngulate Use light Fish Population Sampled yes

Invertebrates on Pop Form Photo Pointd: Upstream on Pop → Downstream Cross Channel General ____

Vegetative Species Po S li Jun [illegible] S

Fishery Quality Poor Rea on Channelized Flow - no pools or cover - rippling flow

Pollution Problems none apparent

Longitude ____ Latitude ____

Office FF 105B
Water Code ____
of Form

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY ,FORM

tream	Drainage System	Sample Location	County	Survey Station	Date of Survey
W. F. Jarbid • River	RDS	T R Sec.	Elko	No • S.G. - Natural	Th 10/25/7..

and Status | Land Agency Unit Name: Humboldt Natl. Forest | Investigators: Siebert C.

(3) 9.9
(4) 7.2

;ame Fish Spec es: Dal Vardn Rainbow White Fish | Non Game Fish Species, S. lo | Endangered-Threatened Species

Water Surface | Stream Bottom | Stream Bank

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools: Width 16	Pools: Class 17	Pools: Feature 18	Location 19	Aquatic Vegetation 20	Organic Debris 21	Muck 22	Clay 23	Silt 24	Sand 25	0.1-1" Fine Gravel 26	Coarse 1-3" Gravel 27	Small 3-6" Rubble 28	Large 6-12" Rubble 29	Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. 33	Size 34	Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Zone Wd 39	Left Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 44
11	4.2	5.1	3		1.6	4	1	L	-	-	-	-	-	.6	-	-	2.7	.9	-	-				3		44	4	4	3		4	4	4
2	4.0	5.5	3/4	20	.5	5	1	R	-	-		-		-			.8	2.7	.5					7		30	4	0	3		5	4	2
3	5.3	9.8	3/4	16	.7	4	1	L	-	-	-	-	.7	.3	.3	.8	.5	2.7	-	-	3	2	3	3		26	4	4	7		1	4	0
3					.4	5	1	R																						V			
4	4.4	6.3	3	19	.9	5	VEG	R	-	-	-	-	-	.5	.4	1.4	-	1.7	.4	-	3	3	3	3		18	4	20	3		2	4	5
5	7.3	10.1	5/3/4	11	.5	5	1	C	-	-	-	-		-	.3	.5	2.5	4.0	-	-	3	4	3	3		6	4	20	7	1/	3	4	0
5					.8	5	1	R																									
																														V			
	25.2	36.8		90	5.4							.7	.7	1.4	1.0	2.7	1.5	12.0	.9						5					5			

ccess 2 Temperature; Water 7°C Air 11°C Time 16:45 Weather' Cool & cloudy Elevation ____
urbidity CLR State Water Quality Class' ____ Discharge (cfs) 517 cms Water/Chemistry Analysis Type
eaver Activity Status U IA -, too high flow Geological Land Form VA Vegetative Type
alley Bottom Width 100 M Geology Gradient 2+ Velocity .61 M/S Streamflow Type ____
Stream Shaded 50% Ungulate Class Cattle Ungulate Use slight Fish Population Sampled ____
nver'tebrates Photo Points: Upstream Downstream Cross Channel ____ General ____
:getativeSpecies SALIX, ALNUS, EQUIS, ARTR, BRTC, ELCI, POTR(T3-T5), CORNU, CASTIU, JUNIP,
],shery Quality fair to good Reason Pool quality could be improved
Jut,ion Problems effluent from old mines
"JIigitude • 'Latitude •

Office FF 105B
Water Code
____ of -"F-orm-s-

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

eam Drainage System: Ombudsman Pinion
Sample Location T R Sec.
County: Elko
Survey Station No.: F. Natural
Date of Survey: 10-25-79
Land Status: USFS
Land Agency Unit Name: Ombudsman Ranger Station
Investigators: Hewitt
Game Fish Species
Non Game Fish Species
Endangered-Threatened Species
U.S.F.S. Stream Code

Transect Number (11)	Water Width (12)	Channel Width (13)	Riffle Class (14)	Average Depth (15)	Pools Width (16)	Pools Class (17)	Pools Frequency (18)	Pools Location (19)	Aquatic Vegetation (20)	Organic Debris (21)	Muck (22)	Clay (23)	Silt (24)	Sand (25)	Gravel 0-3" (26)	Coarse Gravel 3-6" (27)	Small Rubble 6-12" (28)	Large Rubble 12-24" (29)	Boulders >24" (30)	Bedrock (31)	Dominant Imbed. (32)	Imbed. (33)	Size (34)	Left Bank Cover (35)	Left Bank Stability (36)	Left Bank Landform Gradient (37)	Left Bank Ungulate Damage (38)	Left Bank Riparian Zone Width (39)	Right Bank Cover (40)	Right Bank Stability (41)	Right Bank Landform Gradient (42)	Right Bank Ungulate Damage (43)	Right Bank Riparian Zone Width (44)
01	6.6	10.8	8	19.5						.1			1.3	.1	.4	1.9	.6	2.7			3	2	2	1	-	5	4	8	3	-	2	4	30
02	6.5	10.2		14	1.7	5	1	L					.7	.9	.2	.6	.3	2.2	1.6					2	-	7	4	5	4	-	6	4	10
					.6	5	1	R																									
03	6	9.5	3	18.5	1.2	3	2	L					.2	1.7		.6	.7	1.2	.6		.3	3	3	2	-	5	4	2	4	-	15	4	8
					.8	5	1	R																									
	19.1	30.5		52	4.3					1			1.2	3.2	.6	3.1	2.6	6.1	2.2					12	t		12	15	9	1		12	48

5 ... eason Pool ... overcast
Turbidity clear State Water Quality Class ___ Discharge (cms) ___ Water Chemistry Analysis Type ___
Beaver Activity Status None present ___ Geological Land Form ___ Vegetative Type ___
Valley Bottom Width ___ Geology ___ Gradient (%) 2-3 Velocity ___ mlsec Streamflow Type ___
% Stream Shaded < 50% Ungulate Class (?) Ungulate Use Li ___ Fish Population Sampled Yes
Invertebrates in Pool F ___ Photo Points: Upstream on Pool ___ am Cross Channel ___ General ___
Vegetative Species U spp. Salix S h ___
Fishery Quality Fair 600 ... eason m nice pools e cut banks
Pollution Problems Mine tailings - red coloration o a ___
Long:l,tude ___ Latitude ___

Office FF 105B
Water Code ____
of Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream	Drainage System	Sample Location	County	Station	Date of Survey
J[illegible] R. Jarbidge [illegible]	JRDS	T R Sec.	Elko	Survey No. SF(Natural)	Thur 10/25/79

Land status	Land Agency Unit Name	Investigators
	Humboldt Natl F - Jarbidge R.D., District	Sieb[illegible] + Sever

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species
Rainbow Whitefish Dall [illegible]	Sand	

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Transect Number	Wet Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	0.1-1" Fine Gravel	Coarse 1-3" Gravel	Small 3-6" Rubble	Large 6-12" Rubble	12" Boulders	Bedrock	Dominant	Imbed.	Silt	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone	Cov	Stability	Landform Gradient	Ungulate Damage	Riparian Zone
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	5.8	7.5	3/4	t3	.6	5	1	C	-	-	-	-	-	.6	.8	1.2	1.8	1.4	-	-	3	4	3	7	/	68	4	4	2	\	14	4	30
1					.C	S	\	L	✓																\					V			
2	4.0	7.1	—	26	4.0	2	Bed Rock	C	-	-	-	-	-	1.0	.9	-	-	1.8	-	.3	2	3	4	7	V	98	4	0	1	\	11	4	30
3	5.1	7.6	3/4	14	.3	5	1	R	-	-	-	-	-	-	.7	.6	.7	3.1	-	-	12	4	4	3	\	20	4	10	3	/	4	4	10
3					.5	5	1	C											—						/					\			
																									\					1/			
																									/					\			
																									\								
																									/								
																									\								
																									/								
	14.9	22.2		53	6.0									1.6	2.4	1.8	2.5	6.3		.3				5	3		12	14	11	2		12	70

ccess 2 Temperature; Water 42°F Air 65°F Time 1515 Weather COli' w/ clouds Elevation ____
urbidity CLR State Water Quality Class' ____ Discharge (ds) Water Chemistry Analysis Type ____
.eaver Activity Status UU Geological Land Form VA Vegetative Type ____
'alley Bottom Width 20 M Geology Gradient 5+6 Velocity Streamflow Type Fast
Stream Shaded 50% Ungulate Class Cattle Ungulate Use slight Fish Population Sampled YES
nvertebrates Photo Points: Upstream Downstream Cross Channel General ____
'egetative Species AlNU, JUNIP, POTR, SALIX, ARTR, Rowe,
ishery Quality Fair Reason undercut banks C2 pool
- tion Problems Campground adjacent to stream
ongitude ____ ____ ____ ____ ____ Latitude

X.

Office FF 105B
Water Code
of -F=o-n-

NEVADA DEPARTMENT OFFISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Harbidge River | Drainage System: JRS | Sample Location: T R Sec. | County: ELKO Co. | Survey Station No. B NATURAL | Date of Survey: 10-25-79

Land Status, J: USFS | Land Agency Unit Name: Tarbidge Ranger District | Investigators: Green-Hewel

Game Fish Species: Rainbow-Whitefish-Polly Vardin | Non Game Fish Species: | Endangered-Threatened Species:

Water Surface | Stream Bottom | Stream Bank

Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Pools: Width	Pools: Class	Pools: Feature	Pools: Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Fine Gravel	Coarse Gravel	Small Rubble	Large Rubble	Boulders	Bedrock	Imbed. Dominance	Imbed.	Size	Left Bank: Cover	Left Bank: Stability	Left Bank: Landform Gradient	Left Bank: Ungulate Damage	Left Bank: Riparian Zone Wd	Right Bank: Cover	Right Bank: Stability	Right Bank: Landform Gradient	Right Bank: Ungulate Damage	Right Bank: Riparian Zone Wd
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	28	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
01	5.9	11.1	3	18	.7	5	1	L						.7	2.7	.5	4	.8	8		2	2	1	3	-	45	4	5	4	-	12	4	2
					1.1	4	1	C																									
02	4.3	9.2	4	19	1.5	5	1	L						.5	1.2	.4	.7	7	8		2	2	2	4	-	32	4	I	4	-	10	4	4
					.5	5	1	R																									
03	7	3.3	4	14.5	.5	5	I	C						.2	.6	1.5	1.3	2.2	1.2		3	2	2	I	-	27	4	3	6	-	11	4	8
04	7.7	11.5		12	1.6	5	1	C		1.3				1,7	.4	2.3	1.2	1.1	2.2		3	2	2	1	-	28	4	In	2	-	14	4	8
	7.1				4	5	1	r.																									
					.9	4	1	R																									
05	8.9	11.4		11.5	1.5	4	1	1		2				1.3	2.3	2.3	2.1	.1	.6		2	3	3	2	-	29	4	8	(	-	6	4	2..
					1.6	5	1	R																									
06	7.4	10		17	.	4	1			.2				1.2	.5	.9	.1	3	1.5		.3	3	2	2		52	4		1	-	6	4	2
					.	5	1																		3					2			
					.	5																											

Access 3 Temperature, Water Air Time 1330 Weather cool, overcast, windy
Turbidity Clear State Water Quality Clas-s- Discharge (ds) Water Chemistry Analysis Type
Beaver Activity Status None present Geological:Land Form Canyon Vegetative Type Aspen-SubAlpF
Valley Bottom Width 90M Geoldgy ¿ Quien sabe? Gradient 3:3 Velocity Streamflow Type
% Stream Shaded <5% Ungulate Class Deer (?) Ungulate Use Light Fish Population Sampled Yes
Invertebrates on Pop PhotoPoinJs: Upstream on Pop Downstream 0" Pop Cross Channel on Pop General
Vegetative Species Abla, Salix spp Potr, Powo, Poa spp, banks
Fishery Quality Fair to Good Reason some pools formed by boulder but quality pools & overhead cover lacking
Pollution Problems None apparent
Longitude Latitude

Office FF 105B
Water Code ____ of ____ Forms

6.5
4.8
T.7

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream	Drainage System	Sample Location T R Sec.	County	Survey Station No.	Date of Survey
Jarbidge	JRS		ELKO	A Natural	10-24-79

Land Status: USFS | Land Agency Unit Name: idge | Investigators: Green-Hewitt

Gam Fish Species: Rainbow-Dolly Vardin | Non Game Fish Species | Endangered-Threatened Species: NONE | U.S.F.S. Stream Code

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	0-1" Fine Gravel	Coarse 1-2" Gravel	Small 3-6" Rubble	Large 6-12" Rubble	12-12" Boulders	Bedrock	Dominance	Imbed.	Size	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
01	6.5	10.8	4	12	1.1	5	1	L					.4	.3	.5	f	1.5	1.7	1.1		3	4	1	8	-	5	4	2	2	-	4	4	12
					.5	5	f	C							1,2		2.5		3.7 4.8														
					.4	5	1	R								2.2																	
02	4.8	10.7	4	17	.3	5	1	C					.2	.2	.2	.5	1.2	2.1	.4		3	14	1	1']	-	4	4	8	6	-	8	4	/D
					5	5	1	R																									
03	6.4	0.1		16.5	.8	5	1	L					.7	.3	.3	.8	2.2	1.2	.9		3	3	1	7	-	12	4	2	6	-	9	1	15
	4.2				1.5	4	11	C								2.7		2.1															
					.6	5	1	D																									
04	7.2	10.5	4	11	.9	5	1	L		.2			.3	.2	.4	.9	2.5	1.2	1.5		3	2	1	7	-	22	4	3	8	-	10	4	5
					.4	5	1	C																									
05	6.9	10.9	3	11	1.1	5	1	R					.3	.5	.3	.9	3	.2	.7		3	2	2	4	-	67	4	4	1'	-	10	4	20
	31.8	53.0		67.5	16					.2			1.9	1.5	1.7	4.0	10.4	7.4	4.6					7	3		20	22	13	1		20	62

Access 1 Te::perature; Water __ Air ____ Time 1000 Weather warm, clear, light breeze Elevation ____
Turbidity clear State Water Quality Class ____ Discharge (cms) ____ Water Chemistry Analysis Type ____
Beaver Activity Status None present ____ Geological Land Form Canyon Vegetative Type willow-Aspen-fir Riparian
Valley Bottom Width 90 M Geology - ____ Gradient(%) 2-4 Velocity ____ m/sec Streamflow Type ____
% Stream Shaded <5% Ungulate Class — deer and ? Ungulate Use light or None present ? Fish Population Sampled yes
Invertebrates "," Pop Form Photo Points:", Upstream T3 Downstream T3 Cross Channel T3 General ____
Vegetative Species Potr Abla, Salix spp, Veth (wooley Mullein), Poa spp, Alte, Urtica spp
Fishery Quality Poor I ,Reason,: lack of adequate cover & quality pools - mostly riffle
Pollution Problems None apparent
Longitude ____ Latitude ____

Natural 10/74 Habitat Data from Un Channelized Sections WF Jarbidge River

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Office FF 105B
Water Code _____
of Forms

;tream | Drainage System | Sample Location T R Sec. | County | Survey Station No. | Date of Survey

.and Status | ILand Agency Unit Name | Investigators

Game Fish Species | Non Game Fish Species | Endangered-Threatened Species

Water Surface									Stream Bottom												Stream Bank													
					.Pools																Imbed.			Left Bank					Ri ht Bank				
Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Locati—	Aquatic Vegeta—	Organic Debris	Muck	Clay	Silt	Sand	0.1-1" Fine Gravel	Coarse 1-3" Gravel	Small 3-6" Rubble	Large 6-12" Rubble	12" Boulders	Bedrock	Dominance	Imbed.	Size	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd
11	12	U	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
A	31.8	530		67.5	9.6					.2			1.9	1.5	1.7	4.1	10.4	7.4	4.6					7	3	I/O			11	1	41		
B	43.2	703		92	11.6					.1				5.6	7.7	7..	5.8	8.4	7.1					22	3	213			19	2	59		
E	14.9	22.[illegible]		5'3										1.6	2.4	1.8	2.5	6.3	.3					5	3	186			1/	2	29		
F	19.1	30.5		52	4.3					./			1.2	3.2	.6	3.1	2.6	6.1	2.2					12	1	17			9	(	23		
G	25.2	36.8		90	5.4								,7	1.4	1.0	2.7	6.5	12.0	.	-				13	5	124			11	5	15		
		212.	[illegible]	534.5	30.9					/.0			3.8	13.3	13.4	19.6	27.8	40.2	15.1					59	15	650			61	/1	167		

ccess Temperature; Water ____ Air ____ Time ____ Weather zz isamples Elevation ___ ___
urbidity State Water Quality Class' Discharge (cfs) Water Chemistry Analysis. Type ___
eaver Activity Statua ___ Geological Land Form Vegetative Type ___
alley Bottom Width Geology Gradient Velocity Streamflow Type ___
Stream Shaded Ungulate Class Ungulate Use Fish Population Sampled ------
"vertebrates Photo Points: Upstream Downstream _____ Cross Channel _____ General. _____
egetative .Species _____
ishery Quality Reason
)llution Problems _____
ngitude ... _ • Latitude o

Natural

10/77 Habitat Data from Un Channelized Sections WF Jarbidge River

Office FF 105B
Water Code ____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream | Drainage System | Sample Location T R Sec. | County | Survey Station No. | Date of Survey

Land Status | Land Agency Unit Name | Investigators

Game Fish Species | Non Game Fish. Species | Endangered-Threatened Species

Water Surface									Stream Bottom												Stream Bank													
					Pools																Imbed.			Left Bank					Right Bank				
Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Length	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Fine Gravel	Coarse Gravel	Small Cobble	Large Cobble	Boulders	Bedrock	Dominant	Index	Size	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone
11	12	U	14	15	16	17	18	19	20	21	22	23	24	2S	26	27	28	29	10	31	32	33	34	35	36	37	38	39	40	41	42	43	44
A	31.8	530		67.5	9.6					.2			1.9	1.5	1.7	4.1	10.4	7.4	4.6					7	3	110			11	1	41		
B	43.2	702		92	11.6					.1				5.6	7.7	7.9	5.8	8.4	7.1					22	3	213			19	2	59		
E	14.9	22.2		53										1.6	2.4	1.8	2.5	6.3	.3					5	3	186			11	2	29		
F	19.1	30.5		52	4.3					01			1.2	3.2	.6	3.1	2.6	6.1	2.2					12	1	17			9	(	23		
G	25.2	36.8		90	5.4								.7	1.4	1.6	2.7	6.5	12.0	.9					13	5	124			11	5	15		
	134	212		84.5	30.9					1.0			3.8	13.3	13.9	19.6	27.8	40.2	15.1					59	15	650			61	11	167		

Access | Temperature; Water | Air ____ | Time | Weather | 22 samples | Elevation ____

Turbidity | State Water Quality Class | Discharge (cfs) ____ | Water Chemistry Analysis, Type ____

Beaver Activity Status | Geological Land Form | Vegetative Type

Valley Bottom Width | Geology | Gradient | Velocity | Streamflow Type

Stream Shaded | Ungulate Class ____ | Ungulate Use ____ | Fish Population Sampled ____

Invertebrates | Photo Points: Upstream ____ | Downstream ____ | Cross Channel ____ | General ____

Vegetative Species

Fishery Quality | Reason

Pollution Problems

Longitude ____ ° ____ ' | Latitude ____ °

X

4.8 6.5 4.8 T.4

Office FF 105B
Water Code ____
of Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream	Drainage System	Sample Location T R Sec.	County	Survey Station No.	Date of Survey
Jarbidge	JRS		ELKO	A Natural	10-24-79

Land Status S | ILand Agency UnitiName I [illegible] | Investigators Green-Hew'n

Specie" | U.S.F.S. Stream Code

Transect Number (11)	Water Width (12)	Cha=1 Width (13)	Riffl Clas. (14)	Average Depth (15)	Pools: Width (16)	Pools: Cla (17)	Pools: [illegible] (18)	Pools: Lo= on (19)	Aquat Veget on (20)	Organic Debri (21)	Muck (22)	Clay (23)	Silt (24)	Sand (25)	0.1 1" Fine Gravel (26)	Coarse 1-3" Gravel (27)	Small 3-6" Rubbl (28)	Large 6-12" Rubbl (29)	Boulders (30)	Bedrock (31)	Imbed. Dominance (32)	Imbed. (33)	Si (34)	Cover (35)	Stream Bank Left Bank: Stability (36)	Landform Gradient (31)	Ungulate Damage (38)	Riparian Zone Wd (39)	Cover (40)	Right Bank: Stability (41)	Landform Gradient (42)	Ungulate Damage (43)	Riparian Zone Wd (44)
													.4	.3	5	1	1.5	1.7	1.1		3	4	1	8	-	5	4	5	2	-	4	4	12
02	4.8	10.7	4	17	.3	5	1	C					2	.2	.2	.5	1.2	2.1	.4		13	14	1/1	7	1-1	4	4	8	6	-	8	4	10
								1					.7	.3	.3	.8	2.2	1.2	.9		3	3	1	7	-	12	4	2	6	-	9	4	15
					1.5	4	1	C																									
					.6	5	1	P																									
04	7.2	10.5	4	11	.9	5	1	1		.2			.3	.2	.4	.9	2.5	1.2	1.5		3	2	1	7	-	22	4	3	8	1-	10	4	5
					.4	5	1	C																									
05	6.9	10.9	3	11	1.4	5	1	P					.3	.5	.3	.9	3	1.2	.7		3	2	2	4	-	67	4	4	1	-	10	4	20
	31.8	53,01		67.5	96					.2			1.9	1.5	1.7	4.1	10.4	7.4	4.6						3	20	22	3	I			

Access 1 Temperature; Water ____ Air ____ Time 1000 Weather warm, clear, light breeze Elevation ____
Turbidity clear State Water Quality Class ____ Discharge (cms) Water Chemistry Analysis Type ____
Beaver Activity Status None present G'eological Land Form Canyon Vegetative Type willow-aspen-fir riparian
Valley Bottom Width 90 m Geology ____ Gradient(%) 2-4 Velocity m/sec Streamflow Type ____
% Stream Shaded <5% Ungulate Class deer and ? Ungulate Use light or None present ? Fish Population Sampled yes
Invertebrates on Pop Form Photo, Points: Upstream T3 Downstream T3 Cross Channel T3 General ____
Vegetative Species Potr Abla Salix spp, Veth (wooley mullein), Poa spp, Alte, Urtica 5 pO
Fishery Quality Poo... t Reason lack of adequate cover & quality pools - mostly riffle
Pollution Problems None apparent
Longitude ____ Latitude ____

X.

Office FF lOSB
Water Code ____
of Form

NEVADA DEPARTMENT OFFISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Tarbidge River | Drainage System: JRS | Sample Location: T R Sec. | County: ELKO Co. | Survey Station. No. BS NATURAL | Date of Survey: 10-25-79

Land Status,): USFS | Land Agency Unit Name: Tarbidge Pkwy - District | Investigators: Green Hewitt

Game Fish Species: Rainbow - Whitefish - Dolly Varden | Non Game Fish Spec:i.es | Endangered-Threatened Species

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Fine Gravel	Coarse Gravel	Small Rubble	Large Rubble	Boulders	Bedrock	Dominance	Imbed.	Size	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	10	31	32	33	34	15	36	37	18	39	40	41	42	43	44
01	5.9	14.9	3	18	.7	5	1	L						.7	2.7	.5	4	.8	8		2	2	1	3	-	45	4	5	4	-	12	4	2
					1.1	4	1	C																									
02	4.3	9.2	4	19	1.5	5	1	L						.5	1.2	.4	.7	7	.8		2	2	2	4	-	32	4	1	4	-	10	4	4
					.5	5	1	R																									
03	7	3.3	4	14.5	.5	5	1	C						.2	.6	1.5	1.3	2.2	1.2		3	2	2	1	-	27	4	3	6	-	11	4	8
04	7.7	11.5		12	1.6	5	1	C		1.3				11.7	.4	2.3	1.2	1.6	2.2		3	2	2	1	-	28	4	10	2	-	14	4	8
	7.1				4	5	1	r.																									
					.9	4	1	R																									
05	8.9	11.4		11.5	.5	4	1	L		2				11.3	2.3	2.3	2.1	.1	.6		2	3	3	2	-	29	4	8	1	-	6	4	2
					1.6	5	1	R																									
06	7.4	10		17	.5	4	1			.2				1.2	.5	.9	1	.3	1.5		3	3	2	2		52	4		1	-	6	4	2
						5																			3					2			

Access 5 Temperature; Water ____ Air ____ Time 1330 Weather cool, overcast, windy ____ Elevation ____
Turbidity Clear State Water Quality Class ____ Discharge (cfs) Water Chemistrx Analysis Type ____
Beaver Activity Status None Present Geological Land Form Canyon Vegetative Type Aspen-Sub Alp F
Valley Bottom Width 90 M Geoldgy ? Quien Sabe? Gradient 3-3 Velocity 1 Streamflow Type ____
% Stream Shaded <5% Ungulate Class Deer, (?) Ungulate Use Light Fish Population Sampled Yes
Invertebrates on Pop Photo Points: Upstream on Poe Downstream on Pop Cross Channel on Pop General ____
Vegetative Species Poa spp. Banks
Fishery Quality Reason some pools formed by boulder but quality pools + overhead cover lacking
Pollution Problems None apparent
Longitude ____ Latitude ____

Office FF 105B

Water Code ____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream	Drainage System	Sample Location T R Sec.	County	Survey Station No.	Date of Survey
J L R. Jackson Cr.	JRDS		Elko	SF/N.L.11	Thur 10/25/79

Land status	Land Agency Unit Name	Investigators
	A. Intl. Natl For - Jackson R. Dist.	Seubert + Sons

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species
Rainbow Wild Fish Dall Varden	Sculpin	

Transect Number	Water Surface: Net Width	Channel Width	Riffle Class	Average Depth	Pools: Width	Class	Feature	Location	Stream Bottom: Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	Gravel 1/4-2"	Coarse Gravel 2-3"	Small Rubble 3-6"	Large Rubble 6-12"	Boulders >12"	Bedrock	Imbed. Dominance	Imbed	Silt	Left Bank: Cover	Stability	Landform Gradient	Vegetative Damage	Riparian Zone Width	Right Bank: Cover	Stability	Landform Gradient	Vegetative Damage	Riparian Zone Width
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	10	31	32	33	34	35	36	37	18	39	40	41	42	43	44
1	58	7.5	3/4	13	.6	5	1	C	–	–	–	–	–	.6	.8	1.2	1.8	1.4	–	–	3	4	13	7	1/	68	4	4	2	\	14	4	30
1					.c.	5	\	L	–																\					/			
2	4.0	1.1	—	26	4.0	7	Bed Rock	C	–	–	–	–	–	1.0	.9	–	–	1.8	–	.3	2	3	4	7	/	98	4	0	1	\	11	14	30
3	51	7.6	3/4	14	.3	5	\-	R	–	–	–	–	–	–	.7	.6	.7	3.1	–	–	i?	4	4	3	\	70	4	10	.3	/	4	4	10
3					.5	1.5	1	C												–					/					\			
																									\					/			
																									/					\			
																									\					/			
																									1/					\			
																									\					/			
																									/								
	14.9	22.2		53	6.0									1.6	2.4	1.8	2.5	6.3		.3				5	3		12	14	11	2		12	70

ccess 2 Temperature; Water 42°F Ait 65°F Time 1515 Weather' Cool w/ clouds Elevation _

urbidity CLR State Water Quality Class ____ Discharge (cfs) Water Chemistry Analysis Type ____

,eaver Activity Status UU Geological Land Form VA Vegetative Type ____

'alley Bottom Width 70 M Geology Gradient 5 +6 Velocity Streamflow Type Fast

Stream Shaded 50% Ungulate Class Cattle Ungulate Use slight Fish Population Sampled YES

nvertebrates Photo Points: Upstream Downstream Cross Channel General ____

egetativeSpecies ALHU, JUNIP, POTR SALIX, ARTR, Rosa.

ishery Quality Fair Reason moderate banks C2 pool

tion Problems Campground adjacent to stream

ongitude Latitude

Office FF 105B
Water Code _____
of Forms

Stream Oakridge River | Drainage System | Sample Location T R Sec. | County Elko | Survey Station No. F. Natural | Date of Survey 10-25-79

Land Status USFS | Land | Name Ranger Station | Investigators Green-Hewitt

Game Fish Species | Non Game Fish Species | Endangered-Threatened Species | U.S.F.S. Stream Code

Water Surface					Pools				Stream Bottom												Stream Bank																		
																					Imbed.			Left Bank						Right Bank								
Transect Number	Water Width	Channel Width	Riffle Class	Average Depth	Width	Class	Feature	Location	Aquatic Vegetation	Organic Debris	Muck	Clay	Silt	Sand	0.1-1" Fine Gravel	Coarse 1-3" Gravel	Small 3-6" Rubble	Large 6-12" Rubble	12" Boulders	Bedrock	Dominant	Imbed.	SI	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
01	6.6	10.8	8	19.5						.1			.3	.6	.4	1.9	.6	2.7			3	2	2	1	-	5	4	8	3	-	2	4	3C
01	6.5	10.2		14	1.7	15	1	L					.7	.9	.2	.6	.3	2.2	1.6					2	-	7	4	5	4	-	6	4	10
					.6	5		R																									
03	6	9.5	3	18.5	1.2	3	2	L					.2	1.7		.6	1.7	1.2	.6		3	3	3	2	-	5	4	2	4	-	15	4	8
					.8	5	1	R																									
	19.1	30.5		52	4.3					.1			1.2	3.2	.6	3.1	2.6	6.1	2.2					12	1		12	15	9			12	48

Access S Temperature; Water on Pop Time 1630 Weather cool, overcast Elevation
Turbidity clear State Water Quality Class ____ Discharge (cms) Water Chemistry Analysis Type ____
Beaver Activity Status None present Geological Land Form Vegetative Type ____
Valley Bottom Width Geology Gradient(%) 2-3, Velocity m/see Streamflow Type
% Stream Shaded < 5% Ungulate Class deer (?) Ungulate Use Li N/I Fish Population Sampled Yes
Invertebrates n P m Photo Points: Ifpstream on Pop, am Cross Channel General
Vegetative Species inerou s Salix s
Fishery Quality Faic 600 d' eason Some nice pools formed by undercut banks
Pollution Problems Mine tailings - red coloration o a rocks
Longitude ____ Latitude

'Office FF lOSB
Water Code ____
of Fors

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

tream	Drainage System	Sample Location	County	Survey Station	Date of Survey
W. I Varbidge River	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

.and Status ILand Agency Unit Name, Humboldt Natl. Forest

Investigators Scobert C.

;ame Fish Species, Dall Vanda R... Whitefish

Non Game Fish Species, S. 10"

Endangered-Threatened Species

(3) 9.9
4) 7.2

Water Surface					Pools				Stream Bottom												Stream Bank												
																					Imbed.			Left Bank					Right Bank				
Trans. of Tamber	Water Width	Channel Width	Ri=le Clas=	Average Depth	Width	C=a=	Featur	Locat=	Aquati= Vegeta=on	Organic Debris	Muck	Clay	S=lt	Sand	Fi =Gravel	Coarse 1-3" Gravel	Small =6" Rubble	Large 6-12" Rubble	Boulders 12"	Bedr	Dominance	Imbed.	S=e	Cover	St=b=l=ty	Landform Gradient	Ungulate Damage	Riparian Zone Wd	Cover	Stability	Landform Gradient	Ungulate Damage	Riparian Zone Wd
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	25	27	28	29	SO	31	32	33	34	35	36	37	38	39	40	41	42	43	44
11	4.2	5.1	3	24	1.6	4	1	L	-	-	-	-	-	.6	-	-	2.7	.9	-	-				3	/	44	4	4	3	\	4	4	4
2	4.0	5.5	3/4	20	.5	5	1	R	-	-	-			-	-	-	.8	2.7	.5	-				7	\	30	4	0	3	/	5	4	2
3	5.3	9.8	3/4	16	.7	4	1	L	-	-	-	-	.7	.3	.3	.8	.5	7	-	-	3	2	3	3	/	26	4	4	7	\	1	4	0
3					.4	5	1	R																	\					/			
4	4.4	6.3	3	19	.9	5	VEG	IR	-	-	-	-	-	.5	.4	1.4	-	1.7	.4	-	3	3	3	3	/	18	4	20	3	\	2	4	5
5	7.3	10.1	6/3/4	11	.5	5	1	C	-	-	-	-	-	-	.3	.5	2.5	4.0	-	-	3	4	3	3	\	6	4	20	7	/	3	4	0
5					.8	5	1	R																	/					\			
																									\					/			
																									/					\			
	8.2	36.8		90	5.4							.7	.7	1.4	1.0	2.7	1.5	12.0	.9						5					5			

ccess 2 Temperature; Water 7°C Air 11°C Time 16:45 Weather' Cool & cloudy Elevation
urbidity CLR State Water Quality Class ____ Discharge (cfs) .517 cms Water]Chem1stry Analysis Type ____
eaver Activity Status UU - too high flow Geological Land Form VA Vegetative Type ____
alley Bottom Width 100 M Geology Gradient 2+ Velocity .61 M/S Streamflow Type ____
Stream Shaded 50 % Ungulate Class Cattle Ungulate Use slight Fish Population Sampled ____
nveri:ebrates " Photo Points: "upstream" Downstream Cross Channel General
egetative Species SALIX, ALNUS, EQUIS, ARTR, BRTC, ELCI, POTR(T3-T5), CORNU, CASTIN, JUNIP,
ishery Quality fair to good Reason Pool quality could be improved
lution Problems effluent from old Y..."es
ongitude Latitude

1979

Office FF r03A

State Water Code 1205

_____ of _____ Forms

USFS Code

SPECIES POPULATION INVENTORY SUMMARY

Stream W. F. Jarbidge Drainage JRDS nves County Elko

Species Species total of channel areas 0-2 3+4 5+6 7+8 9+10 11+ Investigators Sevon, Siebert, Hewitt, Wernsing, Green

Stat #	5.1	5.2-10.2	10.3-15.2	15.3-20.3	20.4-25.4	125.5-30.5	30.6+	Total
	Centimeters							
A	10	14	2	0	4	1		31
A* (osc)	20	19	8	3	1			52
B				5				5
E	3	1						
F	3	2						
G	13	9	7					
G* (osc)	20	9	8	5				
TOTAL	26	28	11	8				

* excluded (osc) from total

Stat. #	Total No	Ave. Size	Perc. Catch	Perc. 6"+	Perc. -6"	Perc. Wild	6"+/ Mile	-6"/ Mile	Total/ Mile
A	31	3.8	3.55	1	83.9	93.6	32 56	[illegible]	10 .9
A* (osc)/100'	52*	2.8*	96.45*	125 01	86.5*	[illegible]*	259 C*	227 [illegible]*	27 .6*
	5	6.0	12.3	100	0	100	79.52		2
E	4	3.25	37.5	0	100	100	0	1"1.4	[illegible]
F	6	2.94	14.0	16.8	83.2	100	36.4	182.1	218.5
G	49	5.52	11.5	44.9	45.1	89.8	132.59	162.74	295.34
G*(osc)100'	43*		88.5*	96.3*	83.7*	83 1It	369.6*	1900.8*	[illegible]*
ver IStat.	95	.79	17.63	34.4	65.6	93 7	56.2	106 99	163.21

* excluded from T.tAL. (osc) old side annul

Stat #	Stat Length	S. Efficiency	Elev.	Water Temp.	Condo of Fish	Date
A	162	Fair		4°C (39.2°F)	Good	10/22
A*	100'	Fair		4°C (39.2°F)	Good	10/22
B	332	Fair		4°C (39.2°F		10/23
E	130	Fair		5°C (41°F)	Good	10/24
F	145	Poor		9°C (48.2°F)	Fair	10/24
G	876	Poor		7°C (44.6°F)	Good	10/25
G*	100'	Good		7°C (44.6°F)	Good	10/25

Office FF 103A

State Water Code 1208

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USFS Code

1979

SPECIES POPULATION INVENTORY SUMMARY

Stream W. F. Jarbidge Drainage J.R.D.S. County Elko

Species total of unchanneled area Investigators Sam Siebert, Hewitt Hensing & Gree

Stat. #	0-1+	2-3+	4-5+	6-7+	8-9+	10-11+	12+	Total
			Centimeters 10.3-15.2	15.3-20.3				
A	S.1 TS.2-10.Z		9	2	20t25.412S.S-30.sl	30.6+		
B								
F	7	21	6	2				27
G	2	20	9	2	2			36
TOTAL	16	8	45	9	S	4		165

Stat. #	Total No	Ave. Size	Perc. Catch'	Perc. 6"+ (o" #/mile basis)	Perc. -6"	Perc. Wild	6"+1 Mile	-6"1 Mile	Totall Mile
A	23	3.96	82.8	13.0	87.0	95.7	63.36	922.4	985.76
B	64	3.40	92.7	7.8	92.2	100	79.5	938.3	1017.8
F	5	5.2	62.5	40	60	100	81.2	[illegible]	[illegible]
F	27	2.9	86.0	8.1	91.9	94.6	109.1	1238.0	1347.2
G	36	3.72	72.0	13.9	86.1	94.5	105.6	654.7	
ITer./Stat.	165	3.49	82.37	11.5	88.5	96.9	187.77	675.0	762.84

Stat. #	Stat. Length	S. Efficiency	Elev.	Water Tern".	Condo of Fish	Date
A	250'	Poor		3.5°C (38.[illegible] F)	Good	10/23
B	332'	Fair		4.0°C (39.2°F)	Good	10/23
E	130'	Fair		8.1°C (46.6°F)	Good	10/24
F	145'	Fair		9.0°C (48.2°F)	[illegible]	10/24
G	250'	Good		10.0°C (50°F)	[illegible]	10/25

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State Water Code

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USFS Code

SPECIES POPULATION INVENTORY SUMMARY

Stream W.F. Jarbidge River Drainage JRDS County Elko

Species Sculpin _____ Invectigators Siebert, Sevon, Green, Hewitt

	2	2+3	4+5	6+7	8+9	10+11	12+	
			Centimeters					
Stat. #	5.1	5.2-10.2	10.3-15.2	15.3-20.3	20.4-25.4	25.5-30.5	30.6+	Total
Channeled A	2	7	4					13
Natural A		3	2					5
Channeled B								0
Natural B	6	18	3					27
Channeled E		3	1					4
Natural E		1						1
Channeled F	3	2						5
Natural F	2	5						7
Channeled G	3	10						13
Natural G	2	9	1					12
TOTAL	18	58	11					87

Stat. #	Total No.	Ave. Size	Perc. Catch	Perc. 6"+	Perc. -6"	Perc. Wild	6"+1 Mile	-6"1 Mile	Totall Mile
Channeled	13	2,92	41.9	0	100	100	0	42 3	42.3
Natural A	5	3.00	21.7	0	100	100	0	105.6	105 6
Channeled	0	0	0	0	0	0	0	0	0
Natural B	27	2.26	42.2	0	100	100	0	429.4	429.4
Channeled	4	3.25	100	0	100	100	0	121.8	121.8
Natural E	1	2.00	20	0	100	100	0	40.6	40.6
Channeled	5	2.33	83.3	0	100	100	0	182.07	182.07
Natural F	7	2.28	18.9	0	100	100	0	254 89	254.89
	13	1.69	26.5	0	100	100	0	78 36	78.36
.1 G	12	2.42	33.3	0	100	100	0	253.44	253.44
Ave./Chan.	7.0	2.42	28.00	0	100	100	0	84.91	8491
Aver./ Nat.	10.4	2 37	72.0	0	100	100	0	216.79	216.79

Stat #	Stat Length	S. Efficiency	Elev.	Water Temo.	Condo of Fish	Date
Channeled	1621	Fair		'4ºc	Fair-Good	10/23 24
Natural A	250;	Poor		3.5ºe.	Fair-Good	10/24
Channeled	332	Fair		4.0ºC	Fair-Good	10/23
Natural B	332	Fair		4.0ºC	Good	10/23
Channeled	130	Fair		6.5ºC	Fair-Good	10/24
Natural E	130	Fair		43ºF	Good	10/24
Channeled	145	Poor		9.0ºe	Fair-Good	10/24
Natural F	145	Fair		9.0ºC	Fair-Good	10/24
led	876	Poor		7.0ºC	Good	10/25
	250	Good				
Natural G				I=lO,'OOC	Excellent	10/25

Office FF I03A

State Water Code 1208

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USFS Code _

SPECIES POPULATION INVENTORY SUMMARY

Stream W.F. Jarbidge River Drainage IRDS County Elko

Species Rainbow Trout Investigators Seibert, Sevon, Green, Hewitt

		2	2"+3"	4"+5"	6"+7"	8"+9"	10"+11"	12"+	
					Centimeters				
					15.3-20.3	20.4-25,4	25,5-30,5	30.6+	
		5	5	3					
				7	1	1			
[redacted]				17	2				
.1 E			1	1					
Natural F	F	5	16	6	2	1			30
Channeled	G	1	6	7	2	3	2		21
Natural	G		11	8	2	1			22
TOTAL		12	61	49	9	6	2		139

Stat. #	Total No	Ave. Size	Perc. Catch	Perc. 6"+	Perc. 6"	Perc. Wild	6"+/ Mile	-6"1 Mile	Tota11 Mile
Channeled	13	2,46	41.9	0	100	100	0	42 3	42.3
Natural A	17	4.06	73.9	11.8	88.2	94.2	42.24	316 8	359,04
Channeled	0	0	0	0	U	U	0	0	0
Natural B	34	3.74	53.1	5.9	94.1	100	31.8	508.9	540.7
[illegible]	0	0	0	0	0	0	0	0	0
Natural E	2	4.00	40	0	100	100	0	81.Z	81.2
Channeled	0	0	0	0	0	0	0	0	0
Natural F	30	3 10	81 1	10	90	100	109,2	983.1	lOQ? 38
Channeled	21	5.14	42.8	33.3	66 6	76 2	42 19	84 38	126.57
Natural G	22	391	61 1	13 6	86 4	90 9	63 36	401 28	464 64
Ave ./Chan	6.8	4.11	6,24	24,981	75.02	85,3	8.44	25.34	33 78
Aver /XXXX, Nat.	21,0	3,65	93,76	9,72!	90.28 .	97,15	49,32	458,26	507.58

Stat, #	Stat Length	S. Efficiency	Elev.	Water Terno.	Cond, of Fish	Date
Channeled	1621	Fair		4°C	Fair-Good	10123 24
Natural A	250	,Poor		3.5°C	Fair-Good	10/24
Channeled	332	Fair		4°C	Fair-Good	10/23
Natural B	332	Fair		14°C	Good	10/23
Channeled	130	Fair		6.5°C	Fair-Good	110/24
.1 E	130	Fair		43°F	Good	11oJ?4
1eA	145	Poor		9,00G	Fair-Good	10/24
Natural F	145	Fair		9.0°C	Fair-Good	110/24
.1....	876	Poor		7.0°C	Good	10/25
G	250	Good		10.0°C		
Natural					Excellent	10/25

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State Water Code 1208

_____ of _____ Forms

USFS Code

SPECIES POPULATION INVENTORY SUMHARY

Stream W.F. Jarbidge River Drainage JRDS County Elko

Species Whitefish Investigators Siebert, Sevon, Green, Hewitt

Stat. #	6" 5.1	7" 5.2-10.2	8" 10.3-15.2	9" 15.3-20.3	10" 20.4-25.4	11" 25.5-30.5	12" 30.6+	Tota
				Centimeters				
Channeled A	0	0	0	2	2	1	0	5
Natural A	0	0	0	0	0	0	0	0
Channeled B	5	0	0	0	0	0	0	5
Natural B	0	0	0	0	2	1	0	3
Channeled E	0	0	0	0	0	0	0	0
Natural E	0	0	0	0	0	0	0	0
Channeled F	0	0	0	0	0	0	0	0
Natural F	0	0	0	0	0	0	0	0
Channeled G	0	0	2	6	6	1	0	15
Natural G	0	0	1	0	0	1	0	2
TOTAL	5	0	3	8	10	4	0	30

Stat. #	Total No.	Ave. Size	Perc. Catch	Perc. 6"+	Perc. -6"	Perc. Wild	6"+/ Mile	-6"/ Mile	Total! Mile
Channeled A	5	9.8	16.1	100	0	100	16.28	0	16 28
Natural A	0	0	0	0	0	0	0	0	0
Channeled B	5	6	100	100	0	100	79 52	0	79 52
Natural B	3	10 33	4.6	100	0	100	47 7	0	47 7
Channeled E	0	0	0	0	0	0	0	0	0
Natural E	0	0	0	0	0	0	0	0	0
Channeled F	0	0	0	0	0	0	0	0	0
Natural F	0	0	0	0	0	0	0	0	0
Channeled G	15	9.4	30.6	100	0	100	90.4	0	90.40
Natural G	2	9.5	5.5	100	0	100	42.24	0	42.24
Ave./ehan.	5	8.4	67	100	0	100	37 24	0	37 24
Aver. Nat.	1	9.92	33	100	0	100	17 99	0	17.99

Stat. 1L	Stant, Length	S. Efficiency	Elev.	Water Temp,J_	Condo of Fish 1	Date
Channeled A	1621	Fair		440°C	Good	10 23 24
Natural A	250	Poor		3;·5° e		10 24
Channeled B	332	Fair		4.0°e	Good	1023
Natural B	332	Fair		4.0°C		
Channeled E	130	Fair		6.5°e	Good	10/23 10/24
Natural E	130	Fair		43°F		10/24
Channeled F	145	Poor		9.0°C		10/24
Natural F	145	Fair		9.0°C		10/24
Channeled G	876	Poor		7.0°e	Good	0/25
Natural G	250	Good		10.0°C	Good	b.0/25

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USFS Code

SPECIES POPULATION INVENTORY SUMMARY

Stream U.F.Jarbidge River . Drainage IRDS County Elko

Species _ Dolly' Varden _____ Investigators **Siebert, Sevon, Hewitt, Green**

Stat. #	1" 5.1	2" 5.2-10.2	3" 10.3-15.2	4" 15.3-20.3	5" 20.4-25.4	6" 25.5-30.5	7" 30.6+	Tota
			Centimeters					
Channeled A	0	0	0	0	0	0	0	0
Natural A	0	0	0	0	0	0	1	1
Channeled B	0	0	0	0	0	0	0	0
Natural B	0	0	0	0	0	0	0	0
Channeled E	0	0	0	0	0	0	0	0
Natural E	0	0	0	0	0	0	0	0
Channeled F	0	0	0	0	0	1	0	1
Natural F	0	0	0	0	0	0	0	0
Channeled G	0	0	0	0	0	0	0	0
Natural G	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	1	1	2

Stat. #	Tot.al No	Ave. Size	Perc. Catch	Perc. 6"+	Perc. -6"	Perc. Wild	6"+/ Mile	-6"/ Mile	Total! Mile
Channeled A	0	0	0	0	0	0	0	0	0
Natural A	1	7"	4.3	100	0	100	21 12	0	21 12
Channeled B	0	0	0	0	0	0	0	0	0
Natural B	0	0	0	0	0	0	0	0	0
Channeled E	0	0	0	0	0	0	0	0	0
Natural E	0	0	0	0	0	0	0	0	0
Channeled F	1	6"	16 7	100	0	100	36.4	0	36 4
Natural F	0	0	0	0	0	0	0	0	0
Channeled G	0	0	0	0	0	0	0	0	0
Natural G	0	0	0	0	0	0	0	0	0
Ave /Chan	2	6 0	50	100	0	100	7.28	0	7.28
Ave.... Nat.	2	7 0	50	100	0	100	4.22	0	4.22

Stat #	Stat. Length	S Efficiency	Elev.	Temp.	Condo of Fish	Date
Channeled A	1621	Fair		4°C		10/23 24
Natural A	250	Poor		3.5°C	Poor	10/24
Channeled B	332	Fair		40C		10/23
Natural B	332	Fair		4°C	--	10/23
Channeled E	130	Fair		6,5°C		10,24
Natural E	130	Fai...		430F		10 24
Channeled F	145	Poor		goC	Poor	10/24
Natural F	145	Fai...		gOC		10/24
Channeled G	876	Poor		7°C		10/25
Natural G	250	Good		10°C		10/25

1979 photos of channelized & unchannelized reaches WFJR original + NDOW

Photograph Code Key

A-I) 1975 photograph. T46N,R58E,Sec.28,NE¼ SW¼. Upstream from belQw bridge below Pine Creek Campground and above Bear Creek Summit road junction. Sept.24,75.

A-2) 1975 photograph. T46N,R58E,Sec.28,NE¼ SW¼. Downstream from below bridge below Pine Creek Campground above Bear Creek Summit road junction.

A-I) T46N,R58E,Sec.28,NE¼ SW¼. Upstream from below bridge below Pine Creek Campground and above Bear Creek Summit road junction. Sept.5,1979.

A-2) T46N,R58E,Sec.28,NE¼SW¼. Downstream from below bridge below Pine Creek Campground and above Bear Creek Summit road junction. Sept.5,1979

A-3) T46N,R58E,Sec.28,NE¼SW¼. Upstream towards A-2 from a point just above the junction of the Bear Creek Summit road.

A-4) T46N,R58E,Sec.28,NE¼SW¼. Downstream from point A-3 towards bridge below the Bear Creek Summit road junction.

A-5) T46N,R58E,Sec.28,NE¼SW¼. Upstream from point below Bear Creek Summit road junction.

B-1) T46N,R58E,Sec.33,SE¼NE¼. Confluence of Pine Creek and Jarbidge River.

C-l) T46N,R58E,Sec.28NW¼SW¼. Downstream from A-5 towards bridge below Bear Creek Summit junction and above Bonanza Gulch.

C-2) T46N,R58E,Sec.28,NW¼SW¼. Downstream from bridge Bear Creek Summit road junction and above Bonanza Gulch.

C-3) T46N,R58E,Sec.28,NW¼SW¼. Upstream from bridge below Bear Creek Summit road junction and above Nonanza Gulch.

C-4) T46N,R58E,Sec.28,SW¼NW¼. Upstream from below Bonanza Gulch towards Pavlak Cabin·and bridge in C-l.

D-l) T46N,R58E,Sec.21,NE¼SW¼. Upstream showing slightly altered area where trees and other debris' were removed from stream.

'D-2) T46N,R58E,Sec.21,NE¼SW¼. Downstream from D-l showing unalte.red section 'of stream.

E-l) T46N,R58E,Sec.21,SW¼NW¼. Downstream from bridge above Jarbidge Campground.

E-2) T46N,R58E,Sec.21,SW¼NW¼. Upstream from bridge above Jarbidge Csmpground.

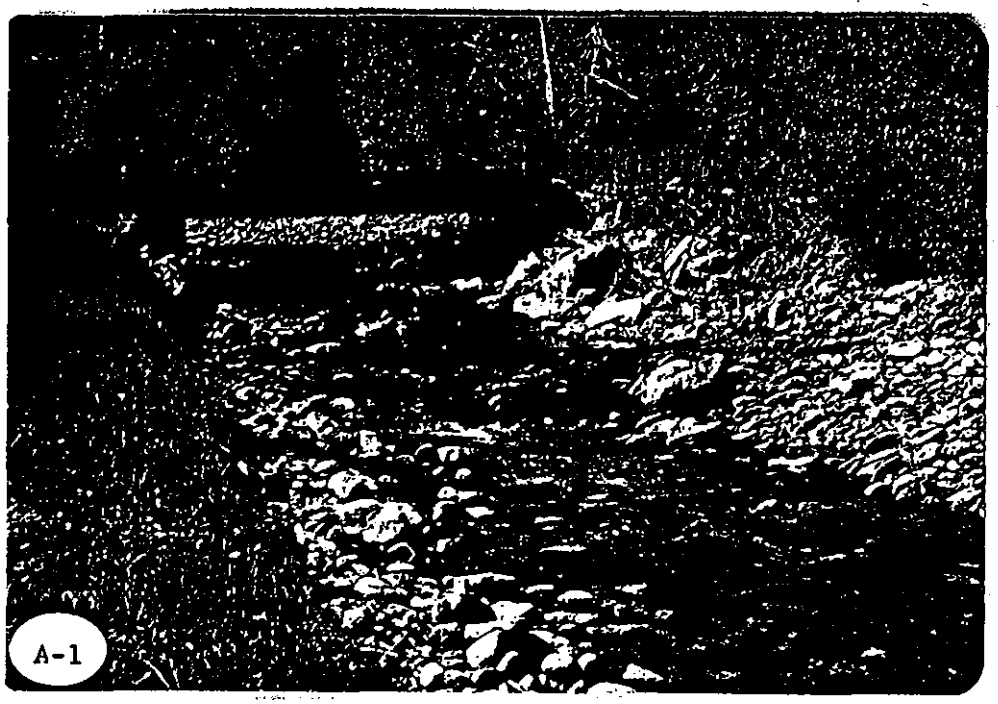
E-3) T-46N,R58E,Sec.21,SW¼NW¼. Upstream from below the Jarbidge Campground. Unaltered section of stream.

F-l) T46N,R58E,Sec.16,NW¼NW¼. Upstream from bridge below town of Jarbidge.

F-2) T46N,R58E,Sec.16,NW¼NW¼. Downstream from bridge below town of Jarbidge. Unaltered section of stream.

G-l) T46N,R58E,Sec.9,SW¼NW¼. Upstresm from small campground sbove Mahoney Ranger Station.

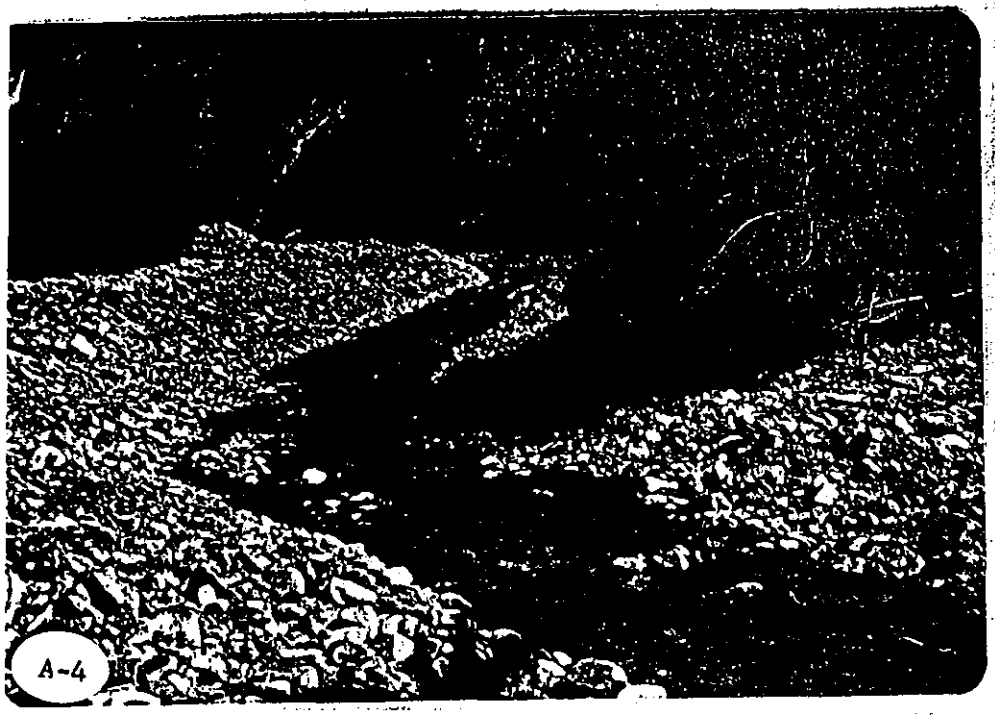
G-2) T46N,R58E,Sec.9,SW¼NW¼. Downstream from campground above Mahoney R.S.


A-1

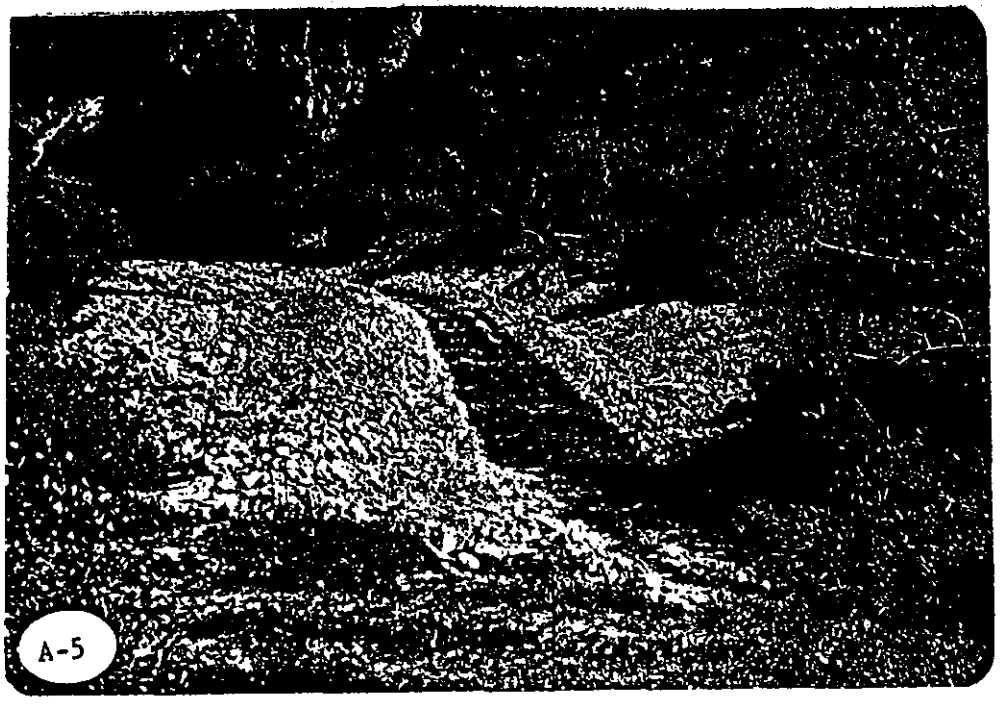
B-1

A-2

A-3


A-4

C-1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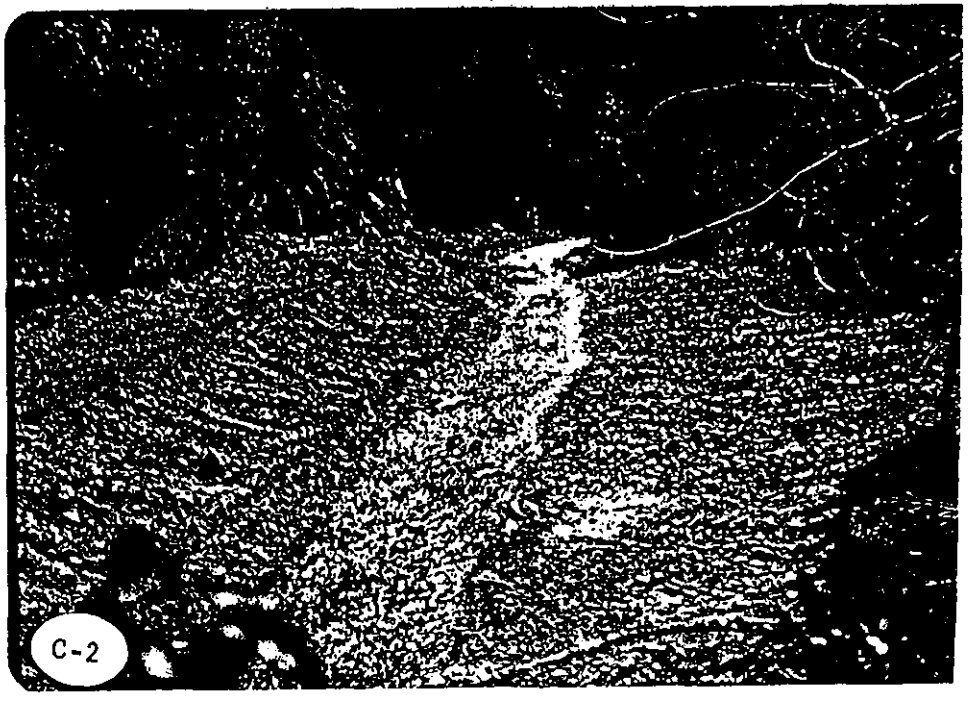
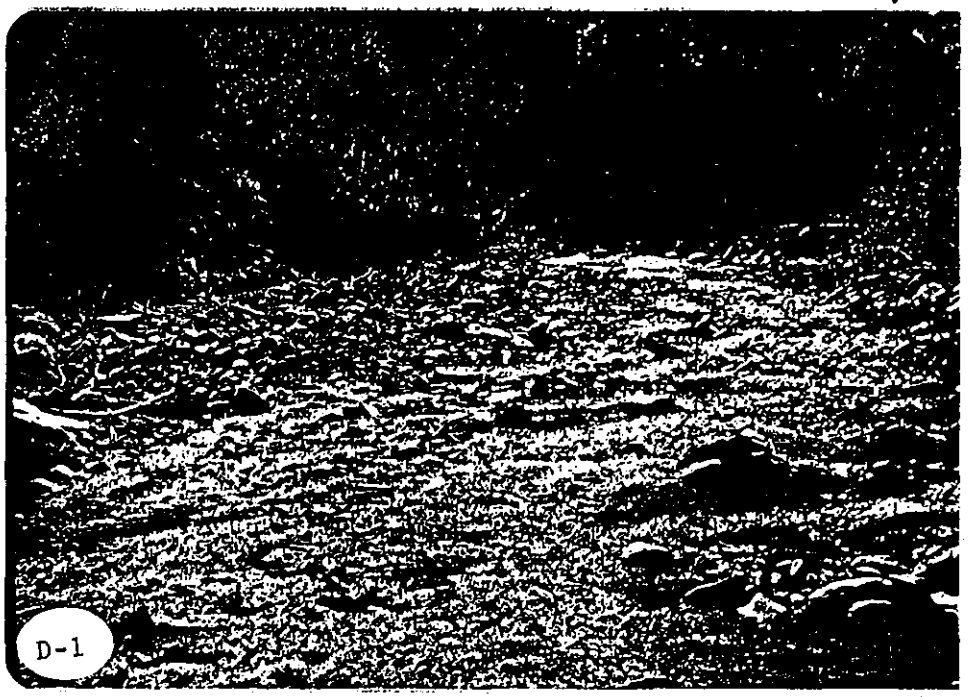

C-2

C-3


D-1

C-4

D-2

E-1

E-3

E-2

F-1

F-2

G-2

G-1

Table II

Office FF I05A
State Water Code
USFS Code ____

STREAM HABITAT SURVEY SUMMARY AND ANALYSIS

State -- County	District - Forest	Resource Area - P.U.
Nu. - Elk	idge - Humboldt Nat'l Forest	Channeled
Drainage	Stream	Location
TRDS	Jarbridge River	T. R. Sect.
Hydrographic Region	Hydrographic Area	
Investigators		Date
Siebert, Seven	Hewitt, Wernsing	

General Data

Total length of stream (mi.)		
Total length of stream:	Surveyed (mi.)	Percent Owner-Ship
a. BLM	X	X
b. USFS	X	X
c. Public, other	X	X
d. Private	X	X
Total No. Sample Stations:		
a. BLM		X
b. Public		X
c. Private		X
Total of all stream width measurements (ft.) m		174.6
Total channel width (ft.) m		332.5
Total width - all pools (ft.) m		14.2
Total width of all pools' classed I, 2, and 3 (ft.) m		0
Total footage of desirable bottom meterials (ft.) m		158.4
Total spawning gravels (ft.) m		98.7
Sum of cover ratings		X
Sum of stability ratings		X
Elevation: (M.S.L.)		
a. Lowest		X
b. Highest		X
Multiple use zones		
Number of camera points		X
Channel stability evaluation		
Number of rating points		X
Total of all ratings		X
Average score		X
Average score value		X

Limiting Factors

Percent of total stream width in pools	8 %
Pool-riffle ratio, % optimum	16 %
Pool quality, & optimum	0
Percent of stream bottom with desirable materials	91 %
~~Bank~~ ee.er, % optimum	15 %
Stream Environment ~~Stream Env~~ ~~Bank stability~~, % optimum	15 %
Percent of habitat optimum	31 %
Average depth of stream (ft.) m	.1251
Average width of stream (ft.) m	4.48
Percent stream shaded	23 %
Percent of bottom with clinging vegetation (ft.) m	0.00
Percent sedimentation	6 %
Percent of bottom with rooted vegetation (ft.) m	0.00
Average stream gradient (%)	4 %
Percent landform gradient RB	13.03 %
LB	13.5 %
Average stream velocity (f/s)	3.71
Stream discharge (c.f.s.)	17.18
Average water temperature: (OF or °C) Max.	2.5
Min.	3.5
Turbidity description	Clear
Access: (mi.)	
a. Remote	
b. Low standard trails	
c. Improved trails	
d. Low standard roads	
e. Improved roads	E
Water quality analysis:	None
a. Hatch kit	
b. Chemical	
c. Coli	

1979 Channelization Project

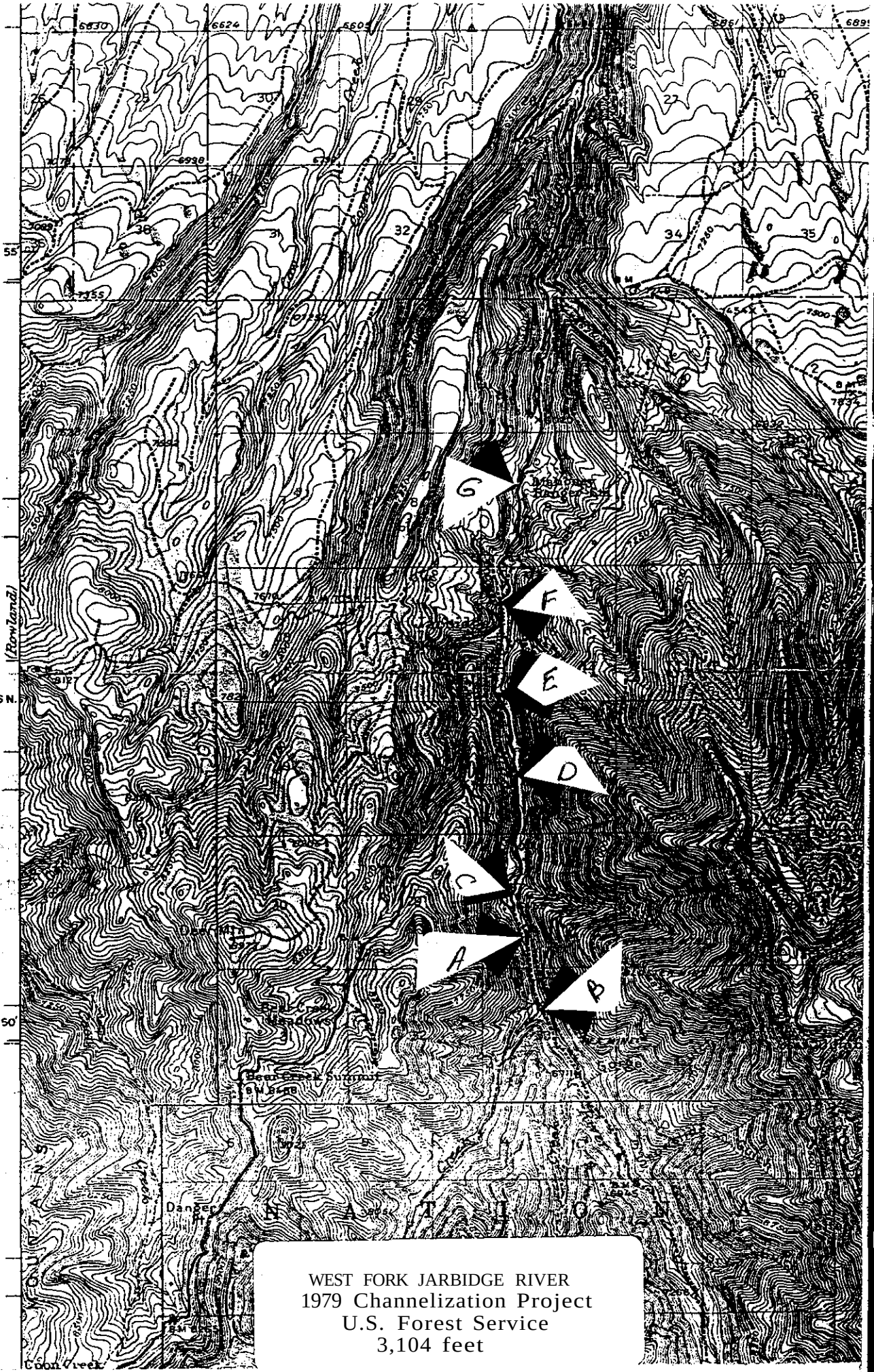
Table I

Office FF rOSA
State Water Code
USFS Code

STREAM HABITAT SURVEY SUMMARY AND ANALYSIS

State -- County	District - Forest	Resource Area - P.U.
11.., CIlo	T. I . . Humboldt Nat'l Forest	Natural
Drainage	Stream	Location
TRNS	Jar L . 'ho River	T. R. Sect.
Hydrographic Region	Hydrographic Area	
Investigators		Date
Siehort Sonn / , . . . Wernsin		

Data		Limiting Factors	
Total length of stream (mi.)		Percent of total stream width in pools	23%
Total length of stream:	Surveyed (mi.) / Percent Owner-Ship	Pool-riffle ratio, % optimum	46%
a. BLM	X / X	Pool quality, & optimum	8%
b. USFS	X / X	Percent of stream: bottom with desirable materials	79%
c. Public, other	X / X	~~Bank~~ ee. ~~er~~, % optimum	68%
d. Private	X / X	Stream Orientation Stream @,", ~~Bank stability~~, % optimum	
Total No. Sample Stations:		Percent of habitat optimum	50%
a. BLM	X		
b. Public	"		
c. Private	X		
Total of all stream width measurements (~~ft.~~) m	134.2	Average depth of stream (~~ft.~~) m	.1/.11
Total channel width (~~ft.~~) m	212.8	Average width of stream (~~ft.~~) m	6.1
Total width - all pools (~~ft.~~) m	30.9	Percent stream shaded	21%
Total width of all pools classed 1, 2, and 3 (~~ft.~~) m	5.2	Percent of bottom with clinging vegetation (ft.)	0
Total footage of desirable bottom materials (~~ft.~~) m	105.8	Percent sedimentation	13%
Tota1 spawning grave1s (~~ft.~~) m	33.0	Percent of bottom with rooted vegetation (ft.)	0
Sum of cover ratings	X	Average stream gradient (%)	3
Sum of stability ratings	X	Percent landform gradient RB	7.59%
Elevation: (M.S.L.)		LB	29.55
a. Lowest	X	Average stream velocity (f/s)	2.59
b. Highest	X	Stream discharge, (c.f.s.)	19.74
Multiple use zones'		Average water'temperature: (OF or °C) Max.	
Number of camera points	X	Min.	
Channel stability evaluation		Turbidity description	— —
Number of rating points	X	Accesa: (mi.)	
Total of all ratings	X	a,. Remote	
Average score	X	b. ' Low standard trails	
Average score value	X	'C. Improved trails	
		d •. Low standard roads,	
		e. Improved roads	E
		Water quality analysis:	None
		a. Hatch kit	
		b. Chemical	
		c, Coli	



WEST FORK JARBIDGE RIVER
1979 Channelization Project
U.S. Forest Service
3,104 feet