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 road and destruction 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 up each bank for 10 or 15 yards on each bank.

Work was accomplished near all the bridges and camping areas down to Mahoney Ranger Station with most work about 100 to 200 feet of channelization. One location had a short segment of about 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 poorest quality habitat in the past and the current activity did not help the fishery. Pool creating habitat should be placed in the stream by stratigically locating large boulders(3-5feet). In addition sensative streambanks should be riprapped by large rock or gabion use to prevent the need for working in the streambottom periodically.

Prepared by:

Patrick Coffin

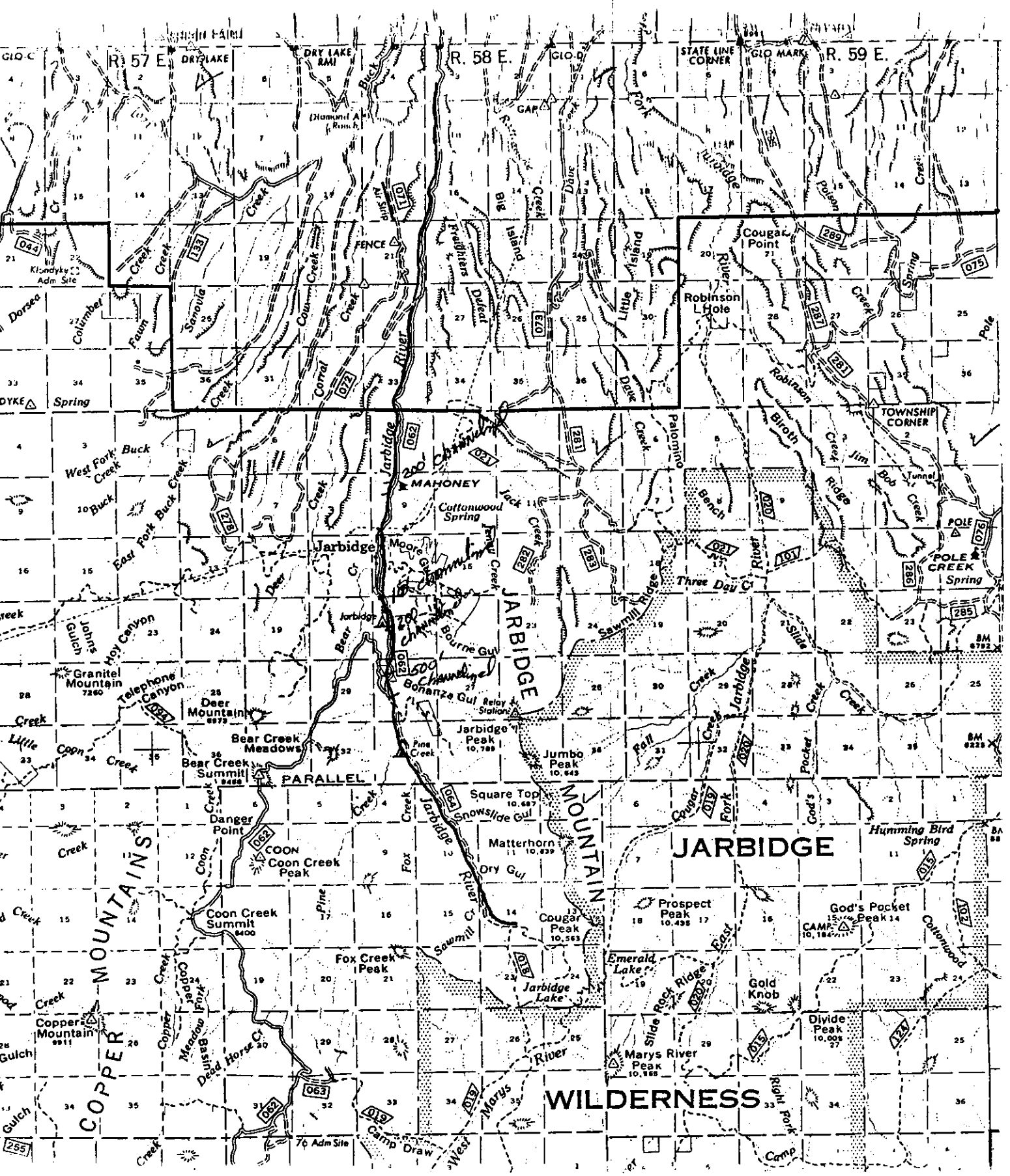
Patrick Coffin
Region II Fisheries Asst.
6 September, 1979

FILE

Adm. _____ Fisheries Pat Game _____
E. _____ I & E _____ Other _____
File Section Fisheries - Stream
File Name Jarbidge River, West Fk
1979 - Channelization
9/6/79

Newfile
White labels

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 Upper Jarbridge

County Elko

ample No. Channeled A Sample Length 1621' Sample Method Homelite Generator

Location: T R Sec.

USFS Code:

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

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

* - area of old channel 100' long

ish Species	-1	1	2	3 (Metric)	4	5	6	7	8	9	10	11	TOTAL
Sculpin	1 + (5*)	1+(1*)	2	5+(4*)	3+(1*)	1							13+(1*)
Rainbow		5+(8*)	1+(6*)	4+(13*)	2+(*)	1+(6*)	2*	1*	2*				13+(39*)
Whitefish										2	2+(1*)	1+(1*)	5+(2*)
OTALS	1+(5*)	6+(9*)	3+(6*)	9+(17*)	5+(2*)	2+(6*)	2*	1*	2*	2	2+(1*)	1+(1*)	31+(52*)

ish 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
Pinto Sculpin	13	2.92	41.9	Ø	100	100	Ø	0	42.3	42.3
*	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		42.3	42.3
*	39*	3.08*	75.0*	12.8 *	87.2 *	94.9*	5.1*	264.00*	1795.52*	2059.2 *
Northern Whitefish	5	9.8	16.1	100.0	Ø	100	Ø	16.28	Ø	16.28
*	2	10.5	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

urbidity:	Runoff Type:	Stream Type:	Shocking Effic:	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
urky	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 85 % Stream Depth Fish Collected None

(Number & Species)

ver)

Sampled by: Steven Sinbad

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
30% Small Rubble
30% Lg-rubble.
10% Lg-gravel.
19% 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 Homelight Generator Location: T R Sec.

Sampling Location Approx 150 feet below bridge crossing USFS Code:

Date: 10-24-79

Fish Species	1+"	2+"	3+"	4+"	SIZE (Metric) 5+"	6+"	7+"	9+"			TOTAL
Rainbow Trout	1	1	6	2	5	1		1			17
Pinto Sculpin		2	1	2							5
Dolly Varden							1				1
TOTALS	1	3	7	4	5	1	1	1			23

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	17	4.06	73.9	11.8	88.2	94.2	5.8	92.24	316.8	359.04
Sculpin	5	3.00	21.7	0	100	100	0	Ø	105.6	105.6
Dolly Varden	1	7.0	4.3	100.0	0	100	0	21.12	Ø	21.12
TOTALS	23	3.96		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:	Runoff Type:	Stream Type:	Shocking Effic:	Stream Cover:	Number Pools by Class:
Clear X	Flood	Torr.	Excellent	Dense	#1
Cloudy	High	Rapid	Good	Heavy	#2
Murky	Med. X	Fast X	Fair	Moderate	#3 1
Muddy	Low	Slow	Poor X	Light	#4 13
	Inter.	Slug.		Open X	#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

Percent Pools 30 % Stream Width Volume cfs Conductivity 28 mhos/cm

Percent Riffle 70 % Stream Depth Fish Collected NO

(Number & Species)

Sampled by:

Order and Relative Abundance	Bottom Types
(A) Mayfly	Small & large rubble, boulder predominately
(C) sm caddis	Coarse & fine gravel, silt & sand
(O) Stonefly	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 sitation 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 believed sample does not adequately represent actual population. Fish Condition- Fair to good, except Dolly Varden which was very poor- thin snake like appearence.

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

Field FF 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

ater Jarbidge River Drainage System JRDS County Elko
ample No. B Channel Sample Length 332' Sample Method Homelite Generator Location: T R Sec.
ampling Location Just below confluence of Pine Creek USFS Code:
Date: 10/23/79

ish Species	6"+										TOTAL
Northern Whitefish	5										5
OTALS											5

SIZE (Metric)

ish 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
Northern Whitefish	5	6	100	100	0	100	0	79.52	0	79.52
OTALS	5	6	100	100	Ø	100	Ø	79.52	Ø	79.52

ater Temperature °F 4 °C Air Temperature 58 °F °C Time 10:15 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 3
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 ____ Roll ____ Film Type ____

Exposure #	f/stop	Time	Comments
12	8	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.

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'

Location: T R Sec.
USFS Code:
Date: 10/22/79

ish Species	1⁻	1⁺	2⁺	3⁺	4⁺	5	6	10	11		TOTAL
				SIZE (Metric)							
Unchannelized Area:											
Rainbow Trout			4	11	11	6	2				34
White Fish, Northern								2	1		3
Sculpin, Pinto	3	3	12	6	2	1					27
OTALS	3	3	16	17	13	7	2	2	1		64

ish 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	34	3.7	53.1	5.9	94.1	100	0	31.8	508.9	540.7
Northern Whitefish	3	10.33	4.6	100.0	Ø	100	0	47.7	Ø	47.7
Pinto 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	1017.8

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

urbidity: lear ___ loudy X urky ___ uddy ___

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

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

Shocking Effic: Excellent ___ Good ___ Fair X Poor ___

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

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

ample Unit Description: Unchanned section bordered by mature aspen, fir and PRVI, Salix, limited cutting up to 4' on channel out curves. Flow presently at ¼ channel capacity w/ boulder, largeand small rubble, gravel on upper channel banks. 20% of banks are cut thru station.

ercent Pools 40 % Stream Width ___ Volume ___ cfs Conductivity 286 mhos/cm

ercent Riffle 60 % Stream Depth ___ Fish Collected ___ (Number & Species)

over)

Order and Relative Abundance

Abundant: May fly

Common: hydrophysche, small caddis

Occasional: Large brown + yellow stone fly

Bottom Types

Large rubble 20%, small rubble 25%, boulder 10%, sand, much 10%, coarse gravel 25%, fine gravel 10%

Photos ____ **Roll** ____ **Film Type** ____

Exposure #	f/stop	Time	Comments
9	8	1/30	Taken at lower end of shocking station; up
10	8	1/30	across
11	8	1/30	down

Additional Comments

Unchannelized portion was the area directly below channeled portion. Unknown fish: 9 Whitefish 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 creek campground lies on the right bank of the area shocked. Bank vegetation appears to stabilize channel during all but high spring runoff. Livestock use is only moderate in riparian zone which is open enough in all locations to walk thru. Algae in stream is lacking. Stream bottom well imbedded in established pools. Use 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 12.06

STREAM POPULATION SAMPLING

Water Jarbridge River Drainage System JRDS County Elko

Sample No. E 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. USFS Code:

Date: Wed. 10/24/79

Fish Species	SIZE (Metric) 3+	4+									TOTAL
Pinto Sculpin	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
Pinto Sculpin	4	3.25	100	0	100	100	Ø	Ø	121.8	121.8
TOTALS	4	3.25	100	0	100	100	Ø	Ø	121.8	121.8

Water Temperature °F 6.5 °C Air Temperature °F 17 °C Time 11:30 Elevation

Turbidity:	Runoff Type:	Stream Type:	Shocking Effic:	Stream Cover:	Number Pools by Class:
Clear	Flood	Torr.	Excellent	Dense	#1
Cloudy X	High	Rapid X	Good	Heavy	#2
Murky	Med.	Fast	Fair X	Moderate	#3
Muddy	Low X	Slow	Poor	Light	#4
	Inter.	Slug.		Open X	#5 15

Sample Unit Description: Much large & small rubble in the stream & lower banks to provide stability. Lack of pools & cover for good fisheries quality.

Percent Pools 5 % Stream Width Volume cfs Conductivity 300 mhos/

Percent Riffle 95 % Stream Depth Fish Collected

(Number & Species)

Invertebrate Sample Data _____

Order and Relative Abundance	Bottom Types
(O) mayfly	
(R) stonefly, sm. caddis, stick caddis, hydrosphyche	50% coarse gravel 10% fine gravel
	30% sm. rubble
	10% lg. rubble

Photos ____ Roll ____ Film Type ____

Jarbridge #1

Exposure #	f/stop	Time	Comments
3	11	1/60	up
4	11	1/60	down

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 riffle 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 # 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

Water Jarbidge River Drainage System JRDS County Elko
Sample No. E Not Sample Length 130' Sample Method Homelite Generator Location: T R Sec.
Sampling Location Directly below channelled area @ the Jarbidge camp & picnic area. USFS Code:
Date: Wed. 10/24/79

Fish Species	2+	3+	4+	5+ (Metric)	6	7	8	9			TOTAL
	SIZE										
Pinte Sculpin	1										1
Rainbow		1		1							2
2 unknown						1		1			2
TOTALS	1	1		1		1		1			5

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
Pinte Sculpin	1	2	20	0	100	100	0	0	40.6	40.6
Rainbow Trout	2	4.0	40	0	100	100	0	0	81.2	81.2
Unknown spp.	2	8.0	40	100	0	?	?	81.2	0	81.2
TOTALS	5	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 Elevation

Turbidity:	Runoff Type:	Stream Type:	Shocking Effic:	Stream Cover:	Number Pools 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 riffle area w/ some small pools.

Percent Pools 40 % Stream Width Volume cfs Conductivity 30 mhos/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	30% coarse gravel	
(R) stick caddis	5% fine gravel	

Photos ____ Roll ____ Film Type ____

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

Additional Comments

Station location is 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 pools probably because shocking efficiency was so poor in the deep fast pools

(4) Fish in good condition.

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

Nevada Water Code 1208

STREAM POPULATION SAMPLING

Water Jarbidge River Drainage System JRS County Elko Co

Sample No. F-Channelized Sample Length 145 feet Sample Method Homelite Generator Location: T R Sec.

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

Date: 10-24-79

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

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
Sculpin	5	2.33	83.3	0	100	100	Ø	Ø	182.07	182.07
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	100	Ø	36.4	182.07	218.47

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

Turbidity:	Runoff Type:	Stream Type:	Shocking Effic:	Stream Cover:	Number Pools by Class:
Clear X	Flood	Torr.	Excellent	Dense	#1
Cloudy	High	Rapid	Good	Heavy	#2
Murky	Med.	Fast X	Fair	Moderate	#3 6
Muddy	Low X	Slow	Poor X	Light	#4 9
	Inter.	Slug.		Open X	#5 23

Sample Unit Description: Small stretch of channalized stream. Flow is restricted to fairly narrow channel with "shoved" rubble banks extending for approx. 10-15' on either side. Fast riffling water with very few pools. Stream is entirely exposed ~~immediately~~ on immediate banks

Percent Pools 20 % Stream Width Volume cfs Conductivity 47 mhos/cm

Percent Riffle 80 % Stream Depth Fish Collected NA (Number & Species)

Sampled by: [illegible]

Invertebrate Sample Data _____

Order and Relative Abundance	Bottom Types
(O) Small mayfly	40% ~~Large~~ Small rubble
(R) small stonefly, Hydrophyce	30% large rubble
Notably few invertebrates	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	5.6	1/60

Additional Comments

Bulldozed bottom material is ~~ra~~ almost 50-50% rubble and sand (+ gravels) - Bottom material is ~~ex~~ 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, ~~[illegible]~~ rubble banks. ~~[illegible]~~

Nevada Water Code 1208

STREAM POPULATION SAMPLING

ater Jarbridge River Drainage System JRDS County Elko

ample No. F-Not Sample Length 145' Sample 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 Species	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	7	7	14	4	2	2		1			37

ish 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	30	3.1	81.1	10	90	100	6.7	109.2	983.3	1092.38
Pinto Sculpin	7	2.28	18.9	Ø	100	100	Ø	Ø	254.89	254.89
OTALS	37	2.9		8.1	91.9	94.6	5.4	109.2	1278.47	1347.3

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

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

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

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

ercent Riffle 60 % Stream Depth Fish Collected None

(Number & Species)

Sampled by: [illegible]

Order and Relative Abundance

(A) mayfly

(B) stonefly & hydrophyche

Bottom Types

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

Photos ____ Roll ____ Film Type ____ Jarbridge #1

Exposure #	f/stop	Time	Comments
7	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 in fair — good condition

Field FF 104
Nevada Water Code 1208

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

STREAM POPULATION SAMPLING

Water Jarbidge River Drainage System JRS County ELKO

Sample No. G-Channeled Sample Length 8.76' Sample Method Generator - (old Green)

Sampling Location Small inroad (camp spot) located at base of Mahoney Ranger Station. Sampling spot is directly above road.

Location: T R Sec.
USFS Code:
Date: 10-25-77

Fish Species	1+"	2+"	3+"	4+"	5+"	6+"	7+"	8+"	9+"	10+"	11+"	TOTAL
	SIZE (Metric)											
Rainbow Trout	(*5) 1	(*4) 2	(*7) 4	(*2) 2	(*7) 5	(*1) 2	(*2)	(*3) 1	(*) 2	(*) 2		21 (32*)
Pinte Sculpin	(*6) 3	(*5) 7	3									13 (11*)
Northern Whitefish								2	6	6	1	15
TOTALS	4 (1*)	9 (9*)	7 (7*)	2 (2*)	5 (7*)	2 (1*)	(2*)	3 (3*)	8	8 (1*)	1	49 (43*)

over for hatchery fish →

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	21	5.14	42.8	33.3	66.6	76.2	23.8	42.19	84.38	126.57
Pinte Sculpin	13	1.69	26.5	Ø	100	100	0	Ø	78.36	78.36
Northern Whitefish	15	9.4	30.6	100.0	Ø	100	0	90.4	Ø	90.40
Rainbow Trout *	32*	4.09*	74.4*	21.8*	78.1*	81.7*	9.3*	369.6*	1320.0*	1689.6*
Pinte Sculpin *	11*	1.45*	25.6*	Ø*	100*	100*	0*	Ø*	580.8*	580.8*
TOTALS*	43*	3.41*	46.8*	16.3*	83.7*	83.1*	6.9*	369.6*	1900.8	2270.4*
TOTALS	49	5.52	53.2	44.9	45.1	89.8	10.2	132.59	162.74	295.34

Water Temperature °F 7 °C Air Temperature °F 15.5 °C Time 1100 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; Poor X

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

Number Pools by Class: #1; #2 I; #3 II; #4 IIII; #5 ~~IIII~~ ~~IIII~~ III

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

Percent Pools 5 % Stream Width Volume cfs Conductivity 40 mhos/cm
Percent Riffle 95 % Stream Depth Fish Collected no (Number & Species)

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

Photos ____ Roll ____ Film Type ____

Exposure #	f/stop	Time	Comments
	Exp	S.S.	F
At	9	1/15	8
Up	10	"	"
Down	11	"	"

*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).

Pools	Class	#
	1	
100'±	2	
10% riffle/90% pool	3	1
	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, old debree jams, and extensive rubble/gravel bar formations.

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

Field # 104
Nevada Water Code 1208

STREAM POPULATION SAMPLING

Water Jarbidge River Section G - unchannelled Drainage System JRDS County Elko

Sample No. G Sample Length 250' Sample Method Hollingsworth Generator

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

Location: T R Sec.
USFS Code:
Date: Thur. Oct. 25, 1979

Fish Species	SIZE (Metric) 1	2	3	4	5	6	8	11			TOTAL
Rainbow Trout		3	8	4	4	2	1				22
Northern Whitefish							1-unsure	1			2
Pinto Sculpin	2	4	5	1							12
TOTALS	2	7	13	5	4	2	2	1			36

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	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	100	Ø	42.24	Ø	42.24
Pinto Sculpin	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	760.32

Water Temperature °F 10 °C Air Temperature °F 14 °C Time 10:30 Elevation

Turbidity:	Runoff Type:	Stream Type:	Shocking Effic:	Stream Cover:	Number Pools by Class:
Clear X	Flood	Torr.	Excellent	Dense	#1
Cloudy	High	Rapid X	Good X	Heavy	#2 1
Murky	Med. X	Fast	Fair	Moderate	#3 1
Muddy	Low	Slow	Poor	Light X	#4 10
	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 small willow. The channel remains open w/ boulder and rubble on both banks for 100' where willow are found again on both banks creating side pools and undercut bank cover

Percent Pools 35 % Stream Width Volume cfs 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, stick 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%
objects, no means of locomotion attached to rocks	
on one end, dorsal view [redacted] side view [redacted]	

Size 1x1

Photos ____ Roll ____ Film Type ____

Exposure #	f/stop	Time	Comments
13	8	1/60	down from head of section.
13	8	1/60	looking up middle section.
14	8	1/60	lower pool at bottom of section.

Additional Comments

① At the bottom of this section and the head of the channelized section a equality pool w/ 3½ foot depths and abundant willow cover can be found. The majority of this pool was checked as being in the channeled section because bulldozer pushed willow into the pool. ② Fish condition on all species was excellent. ③ Both 6" 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 flows 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 10/1979 Data from channelized Reaches

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Office FF 105B
Water Code _____
____ of ____ Forms

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					Pools				Stream Bottom														Stream Bank: Imbed.			Left Bank					Right Bank				
Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Width 16	Class 17	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	>12" Boulders 30	Bedrock 31	Dominance 32	Imbed. 33	Size 34	Cover 35	Stability 36	Landform Gradient 37	Ungulate Damage 38	Riparian Zone 39	Cover 40	Stability 41	Landform Gradient 42	Ungulate Damage 43	Riparian Zone 44
G	36.6	81.0		112					.3					1.0	2.9	7.0	12.5	11.3	1.6					19	1	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	.6					7	0	34			5	0	19		
B	30.5	50.8		86	4.3								.7	2.8	5.2	8.7	9.9	3.8						14	2	120			9	5	35		
A	66.1	121.0		204	4.3								.4	2.9	6.6	17.4	17.1	17.5	4.2					18	14	239			23	13	400		
	174.6	339.9		488	14.2				.3				1.6	9.5	20.6	42.1	56.6	47.9	6.4					66	21				55	27			

Access _____ Temperature; Water ____ Air ____ Time ____ Weather _____ 37 samples _____ Elevation _____
Turbidity _____ State Water Quality Class ____ Discharge (cfs) _____ Water Chemistry Analysis Type _____
Beaver Activity Status _____
Valley Bottom Width _____ Geology _____ Geological Land Form _____ Vegetative Type _____
% Stream Shaded _____ Ungulate Class _____ Ungulate Use _____ Gradient _____ Velocity _____ Streamflow Type _____
Invertebrates _____ Photo Points: Upstream _____ Downstream _____ Fish Population Sampled _____
Vegetative Species _____ Cross Channel _____ General _____
Fishery Quality _____ Reason _____
Pollution Problems _____
Longitude ____ ____ ____ ° ____ ____ ' Latitude ____ ____ ° ____ ____ '

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Water Code _____
____ of ____ Forms

eam: Jarbridge River | Drainage System: JRDS | Sample Location T R Sec. | County: Elko | Survey Station No. A Channeled | Date of Survey: 10/26/79

d Status: USFS | Land Agency Unit Name: Humboldt National Forest | Investigators: Siebert, Seuon, Wernsing, Hewitt

e Fish Species: Whitefish, Rainbow | Non Game Fish Species: Sculpin | Endangered-Threatened Species: None | U.S.F.S. Stream Code

Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Pressure 18	Pools 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	>12" Boulders 30	Bedrock 31
1	3.7	5.1	4	14	.5	5	1	L	–	–	–	–	–	.2	.5	.9	.9	.9	.3	–
2	2.9	4.9	4	13	–	–	–	–	–	–	–	–	–	–	.2	.4	.3	.9	1.1	–
3	3.9	7.3	3/4	13	.5	5	1	R	–	–	–	–	.2	.5	.7	.7	1.1	.7	–	–
3	–	–	–	–	.4	5	1	C	–	–	–	–	–	–	–	–	–	–	–	–
3	–	–	–	–	8	5	1	R	–	–	–	–	–	–	–	–	–	–	–	–
4	3.7	5.9	3/4	15	.5	4	1	L	–	–	–	–	–	.2	.2	1.1	.6	1.3	.3	–
5	4.2	7.3	3/4	13	–	–	–	–	–	–	–	–	–	.4	.8	.9	1.4	.7	–	–
6	5.2	6.9	3/4	11	–	–	–	–	–	–	–	–	.2	.5	1.3	1.1	1.1	1.0	–	–
7	6.5	9.3	3/4	10	–	–	–	–	–	–	–	–	–	.4	.2	4.1	.7	.7	.4	–
8	3.6	6.8	4	13	.2	5	1	R	–	–	–	–	–	.2	.6	.6	2.2	–	–	–
9	3.7	8.2	4	13	.3	5	1	R	–	–	–	–	–	–	–	.7	1.0	1.5	.5	–
10	3.9	6.5	4	12	.3	5	1	L	–	–	–	–	–	.2	.5	.9	.3	1.8	.2	–

Number 11	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 44
1	3	4	3	7		4	4	0	7		5	4	0
2	3	4	3	7		4	4	0	7		4	4	0
3	3	3	3	7		3	4	0	1		44	4	0
3	–	–	–	–		–	–	–	–		–	–	–
3	–	–	–	–		–	–	–	–		–	–	–
4	3	3	2	2		5	4	3	1		5	4	7
5	3	4	3	6		19	4	7	7		7	4	0
6	2	4	3	7		33	4	0	7		7	4	0
7	3	5	3	7		35	4	0	7		2	4	0
8	3	4	3	7		10	4	0	7		9	4	0
9	3	4	3	7		11	4	5	7		87	4	0
10	3	4	2	7		12	4	0	7		70	4	0

ess 1 Temperature; Water 3.5°C Air 4°C Time 9:15 Weather Clear & cool Elevation _____
bidity Clear State Water Quality Class ____ Discharge (cms) 15.7 Water Chemistry Analysis Type _____
ver Activity Status none, unsatis Geological Land Form U A1 Vegetative Type _____
ley Bottom Width 70m Geology _____ Gradient(%) 3,4,4 Velocity ____ m/sec Streamflow Type Noriparian to spot of
ream Shaded 40 Ungulate Class cattle, Ungulate Use light Fish Population Sampled yes
ertebrates pop. form Photo Points: Upstream pop Downstream pop Cross Channel pop. General _____
etative Species Potr, Aile, Juniperus spp, Artr, Salix spp, Prut, Ceb, Cornus
nery Quality poor Reason lot of pools & cover, fast flow
ution Problems possible affluent from campgrounds, mining waste, cat work
itude ____ ____ ____ ____ ____ Latitude ____ ____ ____ ____ ____

Cont. Channel A

Office FF 105B
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, Sevon, Wernsing, Hewitt

Game 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 Feature 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominant 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right 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	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	1	R	–	–	–	–	–	–	.4	1.2	1.9	1.8	.3	–	3	4	3	7		15	4	5	6		41	4	5
13	3.1	8.3	4	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	13	–	–	–	–	–	–	–	–	–	–	–	1.9	.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		14	4	8	7		10	4	10
	46.1	120		204	4.3								.4	2.9	6.6	17.4	17.1	17.5	4.2					18	14				23	13			

Access _____ Temperature; Water _____ Air _____ Time _____ Weather _____ Elevation _____
Turbidity _____ State Water Quality Class _____ Discharge (cfs) 13.77 Water Chemistry Analysis Type _____
Beaver Activity Status _____ Geological Land Form _____ Vegetative Type _____
Valley Bottom Width _____ Geology _____ Gradient _____ Velocity .98 m/s 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 ____ ____° ____ ____'

Office FF 105B
Water Code _____
____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge River
Drainage System: JRDS
Sample Location: T R Sec.
County: Elko
Survey Station No.: SB - channel
Date of Survey: Thur 10/26/79
Land Status:
Land Agency Unit Name: Humboldt Nat'l. Forest
Investigators: Seibert + Seven
Game Fish Species: Rainbow, White Fish, Dolly Varden
Non Game Fish Species: Sculpin
Endangered-Threatened Species:

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Feature 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 44
1	6.4	9.2	4	15	.8	5	1	L	-	-	-	-	.5	10	2.5	1.8	.4	.2	-	-	2	4	4	1		36	4	3	2		2	4	7
1					.5	5	tree	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																									
3					.3	5	1	L																									
4	4.5	6.6	3/4	13	.4	5	1	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	3/4	16	.2	5	1	L	-	-	-	-	-	.4	.3	1.2	1.7	.7	-	-	3	4	3	4		19	4	5	7		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												.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) .545cms Water Chemistry Analysis Type _____
Beaver Activity Status U U Geological Land Form U-A Vegetative Type _____
Valley Bottom Width 70M Geology _____ Gradient 1+4 Velocity .61 m/s Streamflow Type Fast
% Stream Shaded 50 Ungulate Class Cattle Ungulate Use light Fish Population Sampled Yes
Invertebrates See pop. form Photo Points: Upstream _____ Downstream _____ Cross Channel _____ General _____
Vegetative Species ABLA, POTR, POFR, SALIX, CERCO, Juniper, 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	Drainage System	Sample Location T R Sec	County	Survey Station No.	Date of Survey
Jarbidge	JRS		Elko Co.	E-Channeled	10-24-79

Land Status	Land Agency Unit Name	Investigators
USFS	Jarbidge Ranger District	Green-Hewitt

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species	U.S.F.S. Stream Coc
Rainbow - Dolly Var - W. Fish	Sculpin	None	

Transect Number (11)	Water Width (12)	Channel Width (13)	Riffle Class (14)	Average Depth (15)	Pools Width (16)	Pools Class (17)	Pools Position (18)	Pools 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)	>12" Boulders (30)	Bedrock (31)	Imbed. Dominance (32)	Imbed. Imbed. (33)	Imbed. Size (34)	Left Bank Cover (35)	Left Bank Stability (36)	Left Bank Landform Gradient (37)	Left Bank Ungulate Damage (38)	Left Bank Riparian Zone Wd (39)	Right Bank Cover (40)	Right Bank Stability (41)	Right Bank Landform Gradient (42)	Right Bank Ungulate Damage (43)	Right Bank Riparian (44)
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	15
03	5.8	12.3		12	.5	5	1	L						.2	.4	1.8	2.3	.8	.3		3	3	1	4	–	9	4	8	8	–	6	4	5
					.4	5	1	C																									
					.4	5	1	R																									
07	7.1	11.7	3	10	1	5	1	L						.9	2.7	.5	2.4	.6			2	2	3	4	–	13	4	10	4	–	7	4	20
					.4	5	1	C																									
	18.5	35.7		33	1.8								.2	1.5	3.7	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 cool, overcast, 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-

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 Channel on Pop General ____

Vegetative Species Abla, Potr, Juniperus spp, Prvi, Chna, Artr, Ro wo

Fishery Quality Poor Reason Channelization - lack of pools & cover - entirely riffle & ripple

Pollution Problems None apparent

Longitude ____ ° ____ ' ____ Latitude ____ ° ____ ' ____

X

Office FF 105B
Water Code _____
____ of ____ For

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 W.F	JRDS		Elko	SF - channelized	10/25/79

Land Status	Land Agency Unit Name	Investigators
	Humboldt Forest - Jarbidge Ranger Dist.	Siebert, Seven

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species
Rainbow, Dolly Varden	Sculpin	

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Feature 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone 44
1	8	11.6	3/4	12	.5	5	1	C	–	–	–	–	.3	.2	1.0	1.6	3.7	1.2	–	–	3	4	3	3		4	4	2	3		2	4	3
2	7.3	13.8	4	12	1.6	5	1	L	–	–	–	–	–	.8	1.2	1.3	9.0	–	–	–	3	4	3	3		2	4	2	3		1	4	2
2					1.2	5	1	R																									
3	3.9	9.7	3	13	.3	5	1	L	–	–	–	–	–	–	–	1.2	1.4	1.3	–	–				7		5	4	0	7		1	4	0
4	3.7	8.9	3/4	16	.2	5	1	L						.3		1.2	16	.6						7		7	4	0	7		6	4	0
	22.9	44.0		53	3.8								.3	1.3	2.2	5.3	10.7	3.1						8	4		16	4	8	4		16	5

ccess 2 Temperature; Water 75°C Air 16°C Time 1600 Weather Cool Elevation _____
urbidity CLR State Water Quality Class ____ Discharge (cfs) _____ Water Chemistry Analysis Type _____
eaver Activity Status U U Geological Land Form _____ Vegetative Type _____
alley Bottom Width 100M Geology _____ Gradient 2+4% Velocity _____ Streamflow Type _____
Stream Shaded 30% Ungulate Class Cattle Ungulate Use none Fish Population Sampled Yes
nvertebrates See Population Form Photo Points: Upstream _____ Downstream _____ Cross Channel _____ General _____
egetative 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 T R Sec.	County	Survey Station No.	Date of Survey
Jarbidge River	JRS		Elko Co.	G-Channeled	10-25-79

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

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species	U.S.F.S. Stream Code
W. Fish - Rainbow-1.6	0		

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Feature 18	Pools 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	>12" Boulders 30	Bedrock 31
01	4.8	17.2	3	13											.4	1.7	2.2	.5		
02	5.6	15.2	4/3	14										.1	.8	1.4	2.1	1.4		
03	6.5	9.9	4/3	12	.6	4	2	L							.6	.9	2.5	2.5		
04	3.9	7.2	4	13											.3	.8	1.2	1.6		
05	2.0	5.2	4	17	.4	5	4	L	.3					.2		1.1	.6	.9		
06	4.3	10.0	4/3	12	.6	5	1	L						.2	.3	.8	1.8	1.2		
"					.3	5	1	R												
07	4.5	9.9	4	12	.4	5	1	L						.1	.3	.8	1.4	1.5	.4	
08	4.8	6.4	4/3	19										.4	.2	.6	.7	1.7	1.2	
	36.6	81.0		112					.3					1.0	2.9	7.0	12.5	11.3	1.6	

Transect Number 11	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 44
01	3	4	3	4	—	12	4	2	4	—	5	4	30
02	3	4	3	4	—	10	4	4	8	—	5	4	15
03	3	4	2	2	—	15	4	3	7	—	6	4	8
04	3	4	2	6	—	10	4	0	7	—	6	4	2
05	[illegible]	—	[illegible]	6	—	16	4	3	8	—	5	4	2
06	3	4	2	7	—	10	4	1	7	—	3	4	3
"					—		—	—		—			
07	3	3	3	4	—	12	4	0	7	—	6	4	5
08	3	3	3	4	—	32	4	2	7	—	8	4	0
				19	1				10	5			

Access 5 Temperature; Water on Pop → Air ____ Time 1445 Weather Overcast, cool Elevation ____
Turbidity clear State Water Quality Class ____ Discharge (cms) ____ Water Chemistry Analysis Type ____
Beaver Activity 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 med-low
% Stream Shaded <5% Ungulate Class deer (?) Ungulate Use light Fish Population Sampled Yes
Invertebrates on Pop Form Photo Points: Upstream on Pop → Downstream ____ Cross Channel ____ General ____
Vegetative Species Potr, Salix spp, Juniperous spp, Ribes spp, Alnus spp
Fishery Quality Poor Reason 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

Stream: W. F. Jarbidge River
Drainage System: JRDS
Sample Location T R Sec.
County: Elko
Survey Station No. SG - Natural
Date of Survey: Thur. 10/25/79
Land Status:
Land Agency Unit Name: Humboldt Nat'l. Forest
Investigators: Siebert, Seven
Game Fish Species: Dolly Varden, Rainbow, White Fish
Non Game Fish Species: Sculpin
Endangered-Threatened Species:

(3) 9.9 2.2 4

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Pattern 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 44
1	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	2.7	–	–	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	R	–	–	–	–	–	.5	.4	1.4	–	1.7	.4	–	3	3	3	3		18	4	20	3		2	4	5
5	7.3	10.1	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																									
	25.2	36.8		90	5.4							.7	.7	1.4	1.0	2.7	1.5	12.0	.9						5					5			

Access 2 Temperature; Water 7°C Air 11°C Time 16:45 Weather Cool & cloudy Elevation ____
Turbidity CLR State Water Quality Class ____ Discharge (cfs) 517 cms Water Chemistry Analysis Type ____
Beaver Activity Status UU - too high flow Geological Land Form VA Vegetative Type ____
Valley 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 ____
Invertebrates ____ Photo Points: Upstream ____ Downstream ____ Cross Channel ____ General ____
Vegetative Species SALIX, ALNUS, EQUIS, ARTR, BRTC, ELCI, POTR (T3-T5), CORNU, CASTIU, JUNIP,
Fishery Quality Fair to good Reason Pool quality could be improved
Pollution Problems effluent from old mines
Longitude ____ ° ____ ' ____ Latitude ____ ° ____ '

X

Office FF 105B
Water Code _____
____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge 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 Agency Unit Name: Jarbidge Ranger Station | Investigators: Green-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: Feature (18)	Pools: 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)	>12" Boulders (30)	Bedrock (31)	Imbed. Dominance (32)	Imbed. Imbed. (33)	Imbed. Size (34)	Left Bank Cover (35)	Left Bank Stability (36)	Left Bank Landform Gradient (37)	Left Bank Ungulate Damage (38)	Left Bank Riparian Zone Wd (39)	Right Bank Cover (40)	Right Bank Stability (41)	Right Bank Landform Gradient (42)	Right Bank Ungulate Damage (43)	Right Bank Riparian Zone Wd (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	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	1		12	15	9	1		12	48

Access 5 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/sec Streamflow Type _____
% Stream Shaded < 50% Ungulate Class deer, (?) Ungulate Use light — N/A Fish Population Sampled Yes
Invertebrates on Pop Form Photo Points: Upstream on Pop Downstream ____ Cross Channel _____ General _____
Vegetative Species Potr, Juniperous spp, Salix spp, Phpr, Poa spp, Ro wo
Fishery Quality Fair to Good Reason Some nice pools formed by undercut banks
Pollution Problems Mine tailings - red coloration on rocks
Longitude ___ ___ ___ ° ___ ___ ' Latitude ___ ___ ° ___ ___ '

Office FF 105B
Water Code _____
____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge River Jarbidge Camp
Drainage System: JRDS
Sample Location T R Sec.:
County: Elko
Survey Station No.: SE (Natural)
Date of Survey: Thur 10/25/79
Land Status:
Land Agency Unit Name: Humboldt Nat'l For. - Jarbidge Ranger District
Investigators: Siebert + Seven
Game Fish Species: Rainbow, Whitefish, Dolly Varden
Non Game Fish Species: Sculpin
Endangered-Threatened Species:

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Feature 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Ripar Zone Wd 44
1	5.8	7.5	3/4	13	.6	5	1	C	–	–	–	–	–	.6	.8	1.2	1.8	1.4	–	–	3	4	3	7		68	4	4	2		14	4	30
1					.6	5	1	L																									
2	4.0	7.1	–	26	4.0	2	Bed Rock	C	–	–	–	–	–	1.0	.9	–	–	1.8	–	.3	2	3	4	7		98	4	0	1		11	4	30
3	5.1	7.6	3/4	14	.3	5	1	R	–	–	–	–	–	–	.7	.6	.7	3.1	–	–	2	4	4	3		20	4	10	3		4	4	10
3					.5	5	1	C																									
	14.9	20.2		53	6.0									1.6	2.4	1.8	2.5	6.3		.3				5	3		12	14	11	2		12	70

Access 2 Temperature; Water 42°F Air 65°F Time 1515 Weather Cool w/ clouds Elevation _____
Turbidity CLR State Water Quality Class ____ Discharge (cfs) _____ Water Chemistry Analysis Type _____
Beaver Activity Status UU Geological Land Form VA Vegetative Type _____
Valley Bottom Width 70 M Geology _____ Gradient 5+6 Velocity _____ Streamflow Type Sect
Stream Shaded 50% Ungulate Class Cattle Ungulate Use slight Fish Population Sampled YES
Invertebrates _____ Photo Points: Upstream _____ Downstream _____ Cross Channel _____ General _____
Vegetative Species ALNU, JUNIP, POTR, SALIX, ARTR, ROWO,
Fishery Quality Fair Reason undercut banks C2 pool
Habitation Problems Campground adjacent to stream
Longitude ____ ____ ____ ____ ____ Latitude ____ ____ ____ ____

Office FF 105B
Water Code _____
____ of ____ Form

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge River
Drainage System: JRS
Sample Location: T R Sec.
County: ELKO Co.
Survey Station No.: NATURAL
Date of Survey: 10-25-79
Land Status: USFS
Land Agency Unit Name: Jarbidge Ranger District
Investigators: Green-Hewitt
Game Fish Species: Rainbow-Whitefish-Dolly Varden
Non Game Fish Species:
Endangered-Threatened Species:

Transect Number (11)	Water Width (12)	Channel Width (13)	Riffle Class (14)	Average Depth (15)	Pools Width (16)	Pools Class (17)	Pools Feature (18)	Pools 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)	>12" Boulders (30)	Bedrock (31)	Imbed. Dominance (32)	Imbed. Imbed. (33)	Imbed. Size (34)	Left Bank Cover (35)	Left Bank Stability (36)	Left Bank Landform Gradient (37)	Left Bank Ungulate Damage (38)	Left Bank Riparian Zone Wd (39)	Right Bank Cover (40)	Right Bank Stability (41)	Right Bank Landform Gradient (42)	Right Bank Ungulate Damage (43)	Right Bank Ripar Zone Wd (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	13.3	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	9.7	11.5		12	1.6	5	1	C		.3				1.7	.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	C																									
					.9	4	1	R																									
05	8.9	11.4		11.5	.5	4	1	L		.2				1.3	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	.8	4	1	L		.2				1.2	.5	.9	.1	3	1.5		3	3	2	2	—	52	4		1	—	6	4	2
					.9	5	1	C																									
					.6	5	1	R																	3					2			

Access 5 Temperature; Water ____ Air ____ Time 1330 Weather cool, overcast, windy Elevation ____
Turbidity Clear State Water Quality Class ____ Discharge (cfs) ____ Water Chemistry Analysis Type ____
Beaver Activity Status None present Geological Land Form Canyon Vegetative Type Aspen-Sub Alp F
Valley Bottom Width 90M Geology ¿ Quien sabe? Gradient 3-5 Velocity ____ Streamflow Type ____
% Stream Shaded <5% Ungulate Class Deer, (?) Ungulate Use Light Fish Population Sampled Yes
Invertebrates on Pop Photo Points: Upstream on Pop Downstream on Pop Cross Channel on Pop General ____
Vegetative Species Abla, Salix spp, Potr, Pawo, 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 ____ ° ____ ' ____ '

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Office FF 105B
Water Code ____
____ of ____ Forms

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

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

Game Fish Species: Rainbow-Dolly Vardin | Non Game Fish Species | Endangered-Threatened Species: NONE | 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: Feature (18)	Pools: 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)	>12" Boulders (30)	Bedrock (31)	Imbed. Dominance (32)	Imbed. Imbed. (33)	Imbed. Size (34)	Left Bank Cover (35)	Left Bank Stability (36)	Left Bank Landform Gradient (37)	Left Bank Ungulate Damage (38)	Left Bank Riparian Zone Wd (39)	Right Bank Cover (40)	Right Bank Stability (41)	Right Bank Landform Gradient (42)	Right Bank Ungulate Damage (43)	Right Bank Riparian Zone Wd (44)
01	6.5	10.8	4	12	1.2	5	1	L					.4	.3	.5	1	1.5	1.7	1.1		3	4	1	8	—	5	4	5	2	—	4	4	12
					.5	5	1	C							1.2		2.5																
					.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	4	1	7	—	4	4	8	6	—	8	4	10
					.5	5	1	R																									
03	6.4	10.1		16.5	.8	5	1	L					.7	.3	.3	.8	2.2	1.2	.9		3	3	1	7	—	12	4	2	6	—	9	4	15
	4.2				1.5	4	1	C								2.7		2.1															
					.6	5	1	R																									
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	1.4	5	1	R					.3	.5	.3	.9	3	1.2	.7		3	2	2	4	—	67	4	4	1	—	10	4	20
	31.8	53.0		67.5	96					.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 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 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 on Pop Form Photo Points: Upstream T3 Downstream T3 Cross Channel T3 General ____
Vegetative Species Potr, Abla, Salix spp, Verb (woolly mullein), Poa spp, Alte, Urtica spp
Fishery Quality Poor 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

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 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Width 16	Class 17	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	>12" Boulders 30	Bedrock 31	Dominance 32	Imbed. 33	Size 34	Cover 35	Stability 36	Landform Gradient 37	Ungulate Damage 38	Riparian Zone Wd 39	Cover 40	Stability 41	Landform Gradient 42	Ungulate Damage 43	Riparian Zone Wd 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	703		92	11.6					.7				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					.1			1.2	3.2	.6	3.1	2.6	6.1	2.2					12	1	17			9	1	23		
G	25.2	36.8		90	5.4								.7	1.4	1.0	2.7	6.5	12.0	.9					13	5	124			11	5	15		
	134.2	212.8		64.5	30.9					1.0			3.8	13.3	13.4	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 ____ ____° ____ ____'

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

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					Pools				Stream Bottom												Stream Bank: Imbed.			Left Bank					Right Bank				
Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Width 16	Class 17	Feature 18	Location 19	Aquatic Vegetation 20	Organic Debris 21	Muck 22	Clay 23	Silt 24	Sand 25	0.1-3" Fine Gravel 26	Coarse 1-3" Gravel 27	Small 3-6" Rubble 28	Large 6-12" Rubble 29	>12" Boulders 30	Bedrock 31	Dominance 32	Imbed. 33	Size 34	Cover 35	Stability 36	Landform Gradient 37	Ungulate Damage 38	Riparian Zone Wd 39	Cover 40	Stability 41	Landform Gradient 42	Ungulate Damage 43	Riparian Zone Wd 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	703		92	11.6					.7				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					.1			1.2	3.2	.6	3.1	2.6	6.1	2.2					12	1	17			9	1	23		
G	25.2	36.8		90	5.4								.7	1.4	1.0	2.7	6.5	12.0	.9					13	5	124			11	5	15		
	34.2	212.8		54.5	30.9					1.0			3.8	13.3	13.4	19.6	27.8	40.2	15.1					59	15	650			61	11	167		

Access _____ Temperature; Water _____ Air _____ Time _____ Weather _____ ZZ 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 ____ ____° ____ ____'

Office FF 105B
Water Code _____
____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge | Drainage System: JRS | Sample Location T R Sec. | County: ELKO | Survey Station No.: A Natural | Date of Survey: 8-24-79

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

Game Fish Species: Rainbow-Dolly Vardin | Non Game Fish Species: | Endangered-Threatened Species: NONE | 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: Feature 18	Pools: 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Ripar Zone Wd 44
01	6.5	10.8	4	12	1.2	5	1	L					.4	.3	.5	1	1.5	1.7	1.1		3	4	1	8	—	5	4	5	2	—	4	4	12
					.5	5	1	C																									
					.4	5	1	R																									
02	4.8	10.7	4	17	.3	5	1	C					.2	.2	.2	.5	1.2	2.1	.4		3	4	1	7	—	4	4	8	6	—	8	4	10
					.5	5	1	R																									
03	6.4	10.1		16.5	.8	5	1	L					.7	.3	.3	.8	2.2	1.2	.9		3	3	1	7	—	12	4	2	6	—	9	4	15
					1.5	4	1	C																									
					.6	5	1	R																									
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	1.4	5	1	R					.3	.5	.3	.9	3	1.2	.7		3	2	2	4	—	67	4	4	1	—	10	4	20
	31.8	53.0		67.5	96					.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 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 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 on Pop Form Photo Points: Upstream T3 Downstream T3 Cross Channel T3 General ____
Vegetative Species Potr, Abla, Salix spp, Verb (woolly mullein), Poa spp, Alte, Urtica spp
Fishery Quality Poor Reason lack of adequate cover & quality pools - mostly riffle.
Pollution Problems None apparent
Longitude ____ ° ____ ' Latitude ____ ° ____ '

X.

Office FF 105B
Water Code ____
____ of ____ Form

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge River
Drainage System: JRS
Sample Location: T R Sec.
County: ELKO Co.
Survey Station No.: NATURAL
Date of Survey: 10-25-79
Land Status: USFS
Land Agency Unit Name: Jarbidge Ranger District
Investigators: Green-Hewitt
Game Fish Species: Rainbow-Whitefish-Dolly Varden
Non Game Fish Species:
Endangered-Threatened Species:

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools: Width 16	Pools: Class 17	Pools: Feature 18	Pools: 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 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	13.3	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	9.7	11.5		12	1.6	5	1	C		.3				1.7	.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	C																									
					.9	4	1	R																									
05	8.9	11.4		11.5	5	4	1	L		.2				1.3	2.3	2.3	2.1	.1	.6		2	3	3	2	—	29	4	8	1	—	6	4	2
	6.6				1.6	5	1	R																									
06	7.4	10		17	.8	4	1	L		.2				1.2	.5	.9	.1	3	1.5		3	3	2	2	—	52	4		1	—	6	4	2
					.9	5	1	C																	3					2			
					.6	5	1	R																									

Access 5 Temperature, Water ____ Air ____ Time 1330 Weather cool, overcast, windy Elevation ____
Turbidity Clear State Water Quality Class ____ Discharge (cfs) ____ Water Chemistry Analysis Type ____
Beaver Activity Status None present Geological Land Form Canyon Vegetative Type Aspen-Sub Alp F
Valley Bottom Width 90M Geology ¿ Quien sabe? Gradient 3-3 Velocity ____ Streamflow Type ____
% Stream Shaded <5% Ungulate Class Deer, (?) Ungulate Use Light Fish Population Sampled Yes
Invertebrates on Pop Photo Points: Upstream on Pop Downstream on Pop Cross Channel on Pop General ____
Vegetative Species Abla, Salix spp, Potr, Pawo, Poa spp
Fishery Quality Fair to good Reason some pools formed by boulder banks, 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: Jarbidge River Jarbidge Camp
Drainage System: JRDS
Sample Location: T R Sec.
County: Elko
Survey Station No.: SE (Natural)
Date of Survey: Thur 10/25/79
Land Status:
Land Agency Unit Name: Humboldt Nat'l For. - Jarbidge Ranger District
Investigators: Siebert + Seven
Game Fish Species: Rainbow, Whitefish, Dolly Varden
Non Game Fish Species: Sculpin
Endangered-Threatened Species:

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

Access 2 Temperature; Water 42°F Air 65°F Time 1515 Weather Cool w/ clouds Elevation _____
Turbidity CLR State Water Quality Class ____ Discharge (cfs) _____ Water Chemistry Analysis Type _____
Beaver Activity Status UU Geological Land Form VA Vegetative Type _____
Valley Bottom Width 70 M Geology _____ Gradient 5+6 Velocity _____ Streamflow Type Sect
Stream Shaded 50% Ungulate Class Cattle Ungulate Use slight Fish Population Sampled YES
Invertebrates _____ Photo Points: Upstream _____ Downstream _____ Cross Channel _____ General _____
Vegetative Species ALNU, JUNIP, POTR, SALIX, ARTR, ROWO,
Fishery Quality Fair Reason undercut banks C2 pool
Navigation Problems Campground adjacent to stream
Longitude ___ ___ ___ ___ ___ Latitude ___ ___ ___ ___

X

Office FF 105B
Water Code ____
____ of ____ Forms

NEVADA DEPARTMENT OF FISH AND GAME
STREAM HABITAT SURVEY FORM

Stream: Jarbidge 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 Agency Unit Name: Jarbidge Ranger Station | Investigators: Green-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 Feature 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Ripar Zone Wd 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	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	1		12	15	9	1		12	48

Access 5 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/sec Streamflow Type ____
% Stream Shaded < 50% Ungulate Class deer, (?) Ungulate Use light — N/L Fish Population Sampled Yes
Invertebrates on Pop Form Photo Points: Upstream on Pop Downstream ____ Cross Channel ____ General ____
Vegetative Species Potr, Juniperous spp, Salix spp, Phpr, Poa spp, Rowo
Fishery Quality Fair to Good Reason Some nice pools formed by undercut banks
Pollution Problems Mine tailings - red coloration on rocks
Longitude ____ ° ____ ' Latitude ____ ° ____ '

Office FF 105B
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
W.F. Jarbidge River	JRDS		Elko	SG - Natural	Thur. 10/25/79

Land Status	Land Agency Unit Name	Investigators
	Humboldt Natl. Forest	Siebert, Seven

Game Fish Species	Non Game Fish Species	Endangered-Threatened Species
Dolly Varden, Rainbow, White Fish	Sculpin	

(3) 9.9
4) 7.2

Transect Number 11	Water Width 12	Channel Width 13	Riffle Class 14	Average Depth 15	Pools Width 16	Pools Class 17	Pools Footage 18	Pools 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	>12" Boulders 30	Bedrock 31	Imbed. Dominance 32	Imbed. Imbed. 33	Imbed. Size 34	Left Bank Cover 35	Left Bank Stability 36	Left Bank Landform Gradient 37	Left Bank Ungulate Damage 38	Left Bank Riparian Zone Wd 39	Right Bank Cover 40	Right Bank Stability 41	Right Bank Landform Gradient 42	Right Bank Ungulate Damage 43	Right Bank Riparian Zone Wd 44
1	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	2.7	–	–	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	R	–	–	–	–	–	.5	.4	1.4	–	1.7	.4	–	3	3	3	3		18	4	20	3		2	4	5
5	7.3	10.1	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			

Access 2 Temperature; Water 7°C Air 11°C Time 16:45 Weather Cool & cloudy Elevation _____
Turbidity CLR State Water Quality Class ____ Discharge (cfs) 517 cms Water Chemistry Analysis Type _____
Beaver Activity Status UU - too high flow Geological Land Form VA Vegetative Type _____
Valley 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 _____
Invertebrates _____ Photo Points: Upstream _____ Downstream _____ Cross Channel _____ General _____
Vegetative Species SALIX, ALNUS, EQUIS, ARTR, BRTC, ELCI, POTR (T3-T5), CORNU, CASTIU, JUNIP,
Fishery Quality fair to good Reason Pool quality could be improved
Pollution Problems effluent from old mines
Longitude ____ ____ ____ ____ ____ Latitude ____ ____ ____ ____

1979

Office FF I03A

State Water Code 1208

_____ of _____ Forms

USFS Code _____

SPECIES POPULATION INVENTORY SUMMARY

Stream W. F. Jarbidge Drainage JRDS County Elko

~~Species~~ Species total of channel areas Investigators Sevon, Siebert, Hewitt, & Wernsing, Green

0-2 3+4 5+6 7+8 9+10 11+

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
	Centimeters							
A	10	14	2	Ø	4	1		31
A* (osc)	20	19	8	3	1	1		52
B				5				5
E		3	1					4
F	3	2	1					6
G	13	9	7	3	16	1		49
G* (osc)	20	9	8	5	1			43
TOTAL	26	28	11	8	20	2		95

* 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	16.1	83.9	93.6	32.56	68.35	100.9
A* (osc) 100'	52*	2.8*	96.45*	13.5*	86.5*	96.2*	369.6*	2376.32*	2745.6*
B	6	6.0	12.3	100	0	100	79.52	Ø	79.52
E	4	3.25	37.5	Ø	100	100	Ø	121.8	121.8
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*	3.41*	88.5*	96.3*	83.7*	83.1*	369.6*	1900.8*	2270.4*
ver./Stat.	95	4.79	17.63	34.4	65.6	93.7	56.2	106.99	163.21

* excluded from Total. (osc) old side channel

Stat. #	Stat. Length	S. Efficiency	Elev.	Water Temp.	Cond. of Fish	Date
A	1621	Fair		4°C (39.2°F)	Good	10/23
A*	100'	Fair		4°C (39.2°F)	Good	10/23
B	332	Fair		4°C (39.2°F		10/23
E	130	Fair		6.5°C (43.7°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 I03A

State Water Code 1208 1979

_____ of _____ Forms

USFS Code _____

SPECIES POPULATION INVENTORY SUMMARY

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

Species total of unchanneled area Investigators Sam Siebert, Hewitt, Wessing & Green

Stat. #	0-1+ 5.1	2-3+ 5.2-10.2	4-5+ 10.3-15.2	6-7+ 15.3-20.3	8-9+ 20.4-25.4	10-11+ 25.5-30.5	12+ 30.6+	Total
			Centimeters					
A	1	10	9	2	1			23
B	6	33	20	2		3		64
E		2	1	1	1			5
F	7	21	6	2	1			37
G	2	20	9	2	2	1		36
TOTAL	16	86	45	9	5	4		165

on #/mile basis

Stat. #	Total No.	Ave. Size	Perc. Catch	Perc. 6"+	Perc. -6"	Perc. Wild	6"+/ Mile	-6"/ Mile	Total/ 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
E	5	5.2	62.5	40	60	100	81.2	121.8	203.0
F	37	2.9	86.0	8.1	91.9	94.6	109.2	1238.0	1347.31
G	36	3.72	72.0	13.9	86.1	94.5	105.6	654.7	760.30
ver./Stat.	165	3.49	82.37	11.5	88.5	96.9	87.77	675.0	762.84

Stat. #	Stat. Length	S. Efficiency	Elev.	Water Temp.	Cond. of Fish	Date
A	250'	Poor		3.5°C (38.3°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)	Good	10/24
G	250'	Good		10.0°C (50°F)	Good	10/25

Office FF I03A

State Water Code _____

_____ of _____ Forms

USFS Code _____

SPECIES POPULATION INVENTORY SUMMARY

Stream W.F. Jarbidge River Drainage JRDS County Elko

Species Sculpin Investigators 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"+/ Mile	-6"/ Mile	Total/ Mile
Channeled A	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 B	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 E	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 F	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
Channeled G	13	1.69	26.5	0	100	100	0	78.36	78.36
Natural 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	84.91
Aver./~~XXXX~~ Nat.	10.4	2.37	72.0	0	100	100	0	216.79	216.79

Stat. #	Stat. Length	S. Efficiency	Elev.	Water Temp.	Cond. of Fish	Date
Channeled A	1621	Fair		4°C	Fair-Good	10/23,24
Natural A	250	Poor		3.5°C	Fair-Good	10/24
Channeled B	332	Fair		4.0°C	Fair-Good	10/23
Natural B	332	Fair		4.0°C	Good	10/23
Channeled E	130	Fair		6.5°C	Fair-Good	10/24
Natural E	130	Fair		43°F	Good	10/24
Channeled F	145	Poor		9.0°C	Fair-Good	10/24
Natural F	145	Fair		9.0°C	Fair-Good	10/24
Channeled G	876	Poor		7.0°C	Good	10/25
Natural G	250	Good		10.0°C	Excellent	10/25

Office FF I03A

State Water Code 1208

_____ of _____ Forms

USFS Code _____

SPECIES POPULATION INVENTORY SUMMARY

Stream W.F. Jarbidge River Drainage JRDS County Elko

Species Rainbow Trout Investigators Seibert, Sevon, Green, Hewitt

Stat. #	2	2"+3"	4"+5"	6"+7"	8"+9"	10"+11"	12"+	
	Centimeters							
	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	5	5	3					13
Natural A	1	7	7	1	1			17
Channeled B								0
Natural B		15	17	2				34
Channeled E								0
Natural E		1	1					2
Channeled F								0
Natural 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"/ Mile	Total/ Mile
Channeled A	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 B	0	0	0	0	0	0	0	0	0
Natural B	34	3.74	53.1	5.9	94.1	100	31.8	508.9	540.7
Channeled E	0	0	0	0	0	0	0	0	0
Natural E	2	4.00	40	0	100	100	0	81.2	81.2
Channeled F	0	0	0	0	0	0	0	0	0
Natural F	30	3.10	81.1	10	90	100	109.2	983.1	1092.38
Channeled G	21	5.14	42.8	33.3	66.6	76.2	42.19	84.38	126.57
Natural G	22	3.91	61.1	13.6	86.4	90.9	63.36	401.28	464.64
Ave./Chan.	6.8	4.11	6.24	24.98	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 Temp.	Cond. of Fish	Date
Channeled A	1621	Fair		4°C	Fair-Good	10/23,24
Natural A	250	Poor		3.5°C	Fair-Good	10/24
Channeled B	332	Fair		4°C	Fair-Good	10/23
Natural B	332	Fair		4°C	Good	10/23
Channeled E	130	Fair		6.5°C	Fair-Good	10/24
Natural E	130	Fair		43°F	Good	10/24
Channeled F	145	Poor		9.0°C	Fair-Good	10/24
Natural F	145	Fair		9.0°C	Fair-Good	10/24
Channeled G	876	Poor		7.0°C	Good	10/25
Natural G	250	Good		10.0°C	Excellent	10/25

Office FF 103A

State Water Code 1208

_____ of _____ Forms

USFS Code _____

SPECIES POPULATION INVENTORY SUMMARY

Stream W.F. Jarbidge River Drainage JRDS County Elko

Species Whitefish Investigators Siebert, Sevon, Green, Hewitt

	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	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./Chan.	5	8.4	67	100	0	100	37.24	0	37.24
Aver./~~Exxxx~~ Nat.	1	9.92	33	100	0	100	17.99	0	17.99

Stat. #	Stat. Length	S. Efficiency	Elev.	Water Temp.	Cond. of Fish	Date
Channeled A	1621	Fair		4.0°C	Good	10/23,24
Natural A	250	Poor		3.5°C		10/24
Channeled B	332	Fair		4.0°C	Good	10/23
Natural B	332	Fair		4.0°C	Good	10/23
Channeled E	130	Fair		6.5°C		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°C	Good	10/25
Natural G	250	Good		10.0°C	Good	10/25

Office FF I03A

State Water Code 1208

_____ of _____ Forms

USFS Code _____

SPECIES POPULATION INVENTORY SUMMARY

Stream W.F. Jarbidge River Drainage JRDS County Elko

Species Dolly Varden Investigators Siebert, Sevon, Hewitt, Green

	1"	2"	3"	4"	5"	6"	7"	
			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	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. #	Total 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
Aver./~~XXX~~ Nat.	.2	7.0	50	100	0	100	4.22	0	4.22

Stat. #	Stat. Length	S. Efficiency	Elev.	Water Temp.	Cond. 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		4°C		10/23
Natural B	332	Fair		4°C		10/23
Channeled E	130	Fair		6.5°C		10/24
Natural E	130	Fair		43°F		10/24
Channeled F	145	Poor		9°C	Poor	10/24
Natural F	145	Fair		9°C		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
originals at NDOW

Photograph Code Key

A-1) 1975 photograph. T46N,R58E,Sec.28,NE¼ SW¼. Upstream from below 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 and above Bear Creek Summit road junction.

A-1) 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-1) 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 below 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-1.

D-1) 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-1 showing unaltered section of stream.

E-1) T46N,R58E,Sec.21,SW¼NW¼. Downstream from bridge above Jarbidge Campground.

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

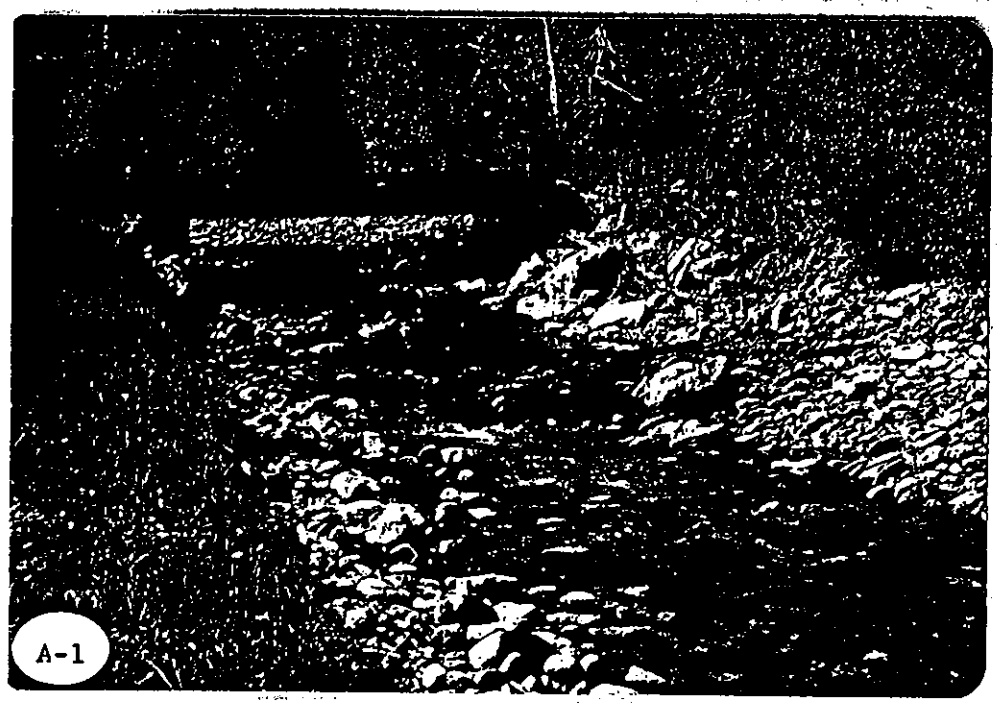
E-3) T-46N,R58E,Sec.21,SW¼NW¼. Upstream from below the Jarbidge Campground. Unaltered section of stream.

F-1) 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.

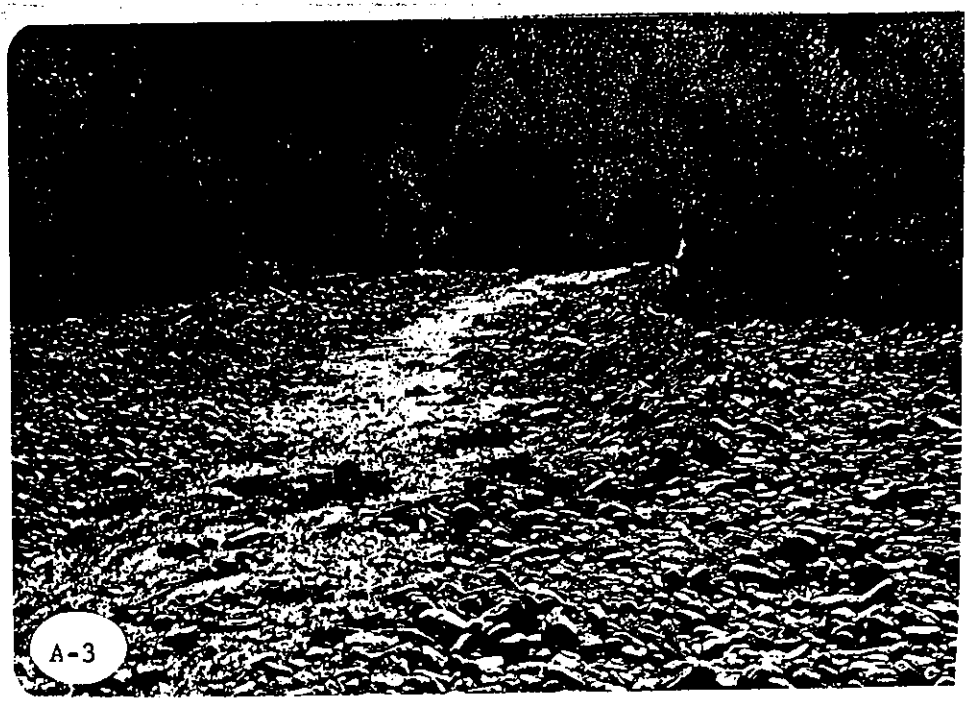
G-1) T46N,R58E,Sec.9,SW¼NW¼. Upstream from small campground above Mahoney Ranger Station.

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


A-1

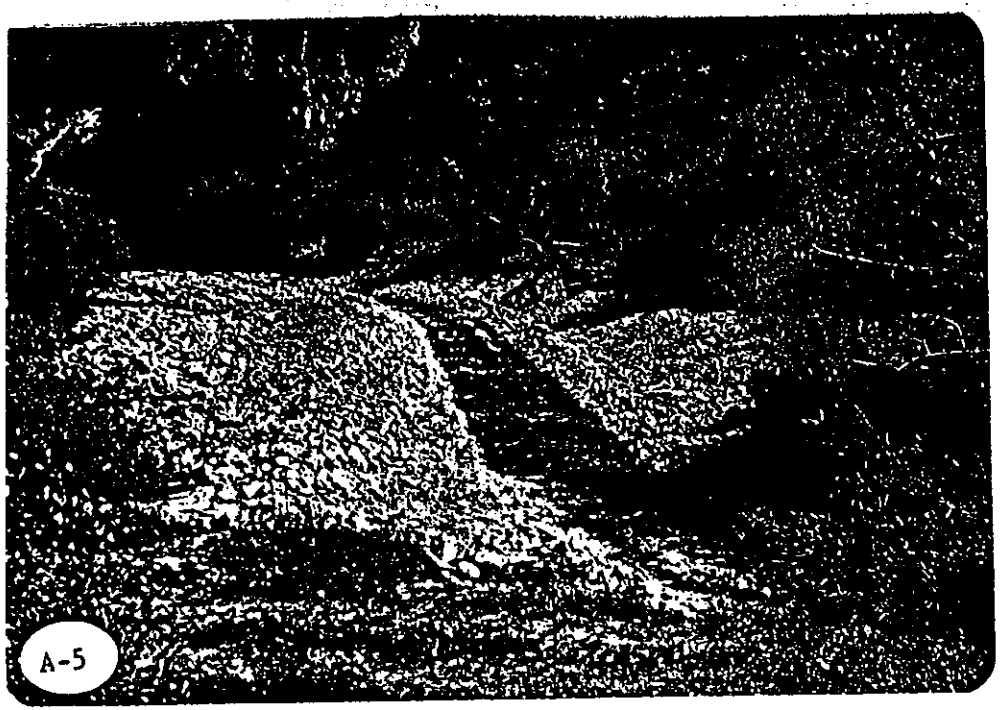
B-1

A-2


A-3

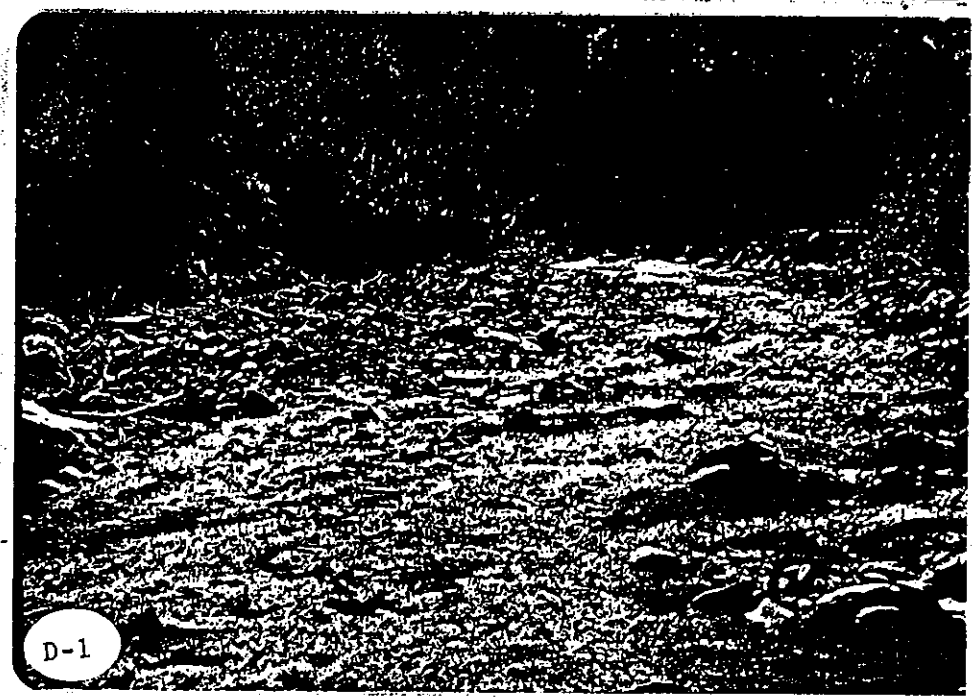
A-4

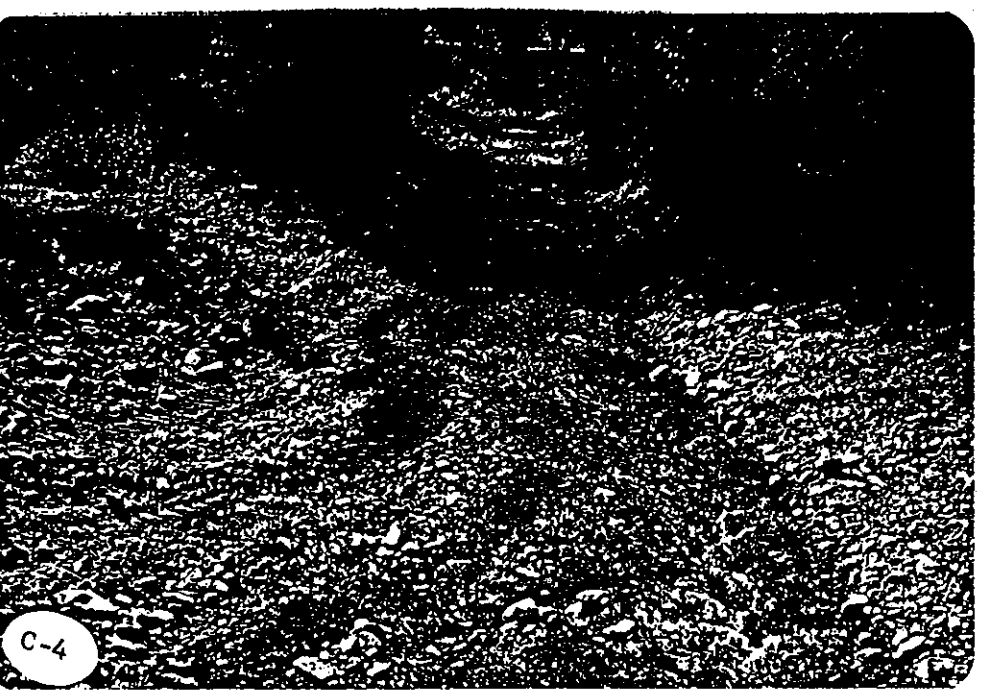
C-1


A-5

C-2

C-3

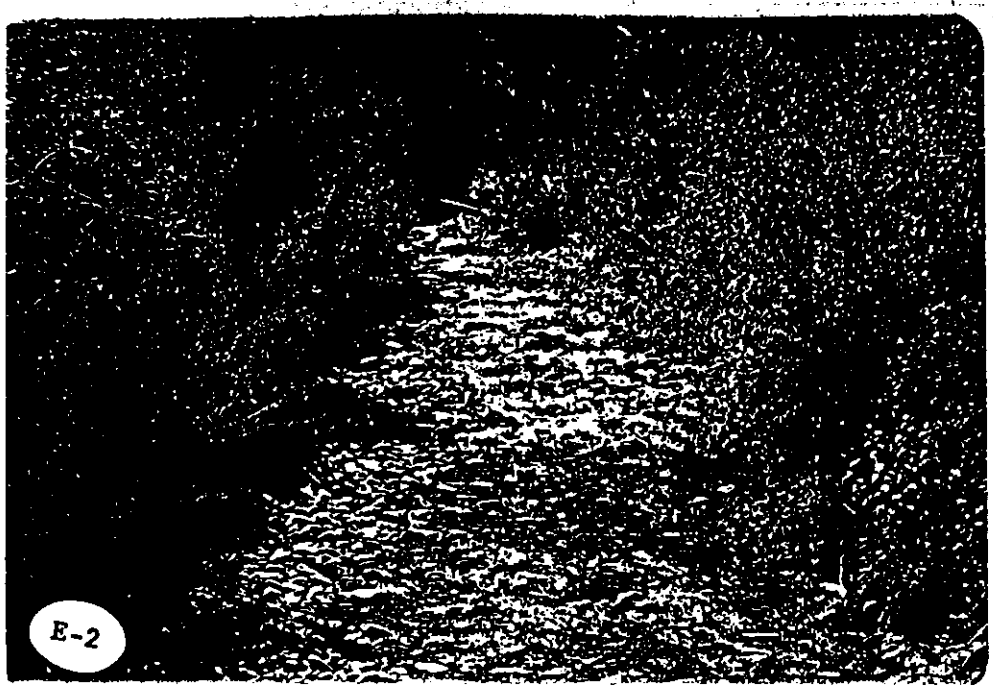

D-1

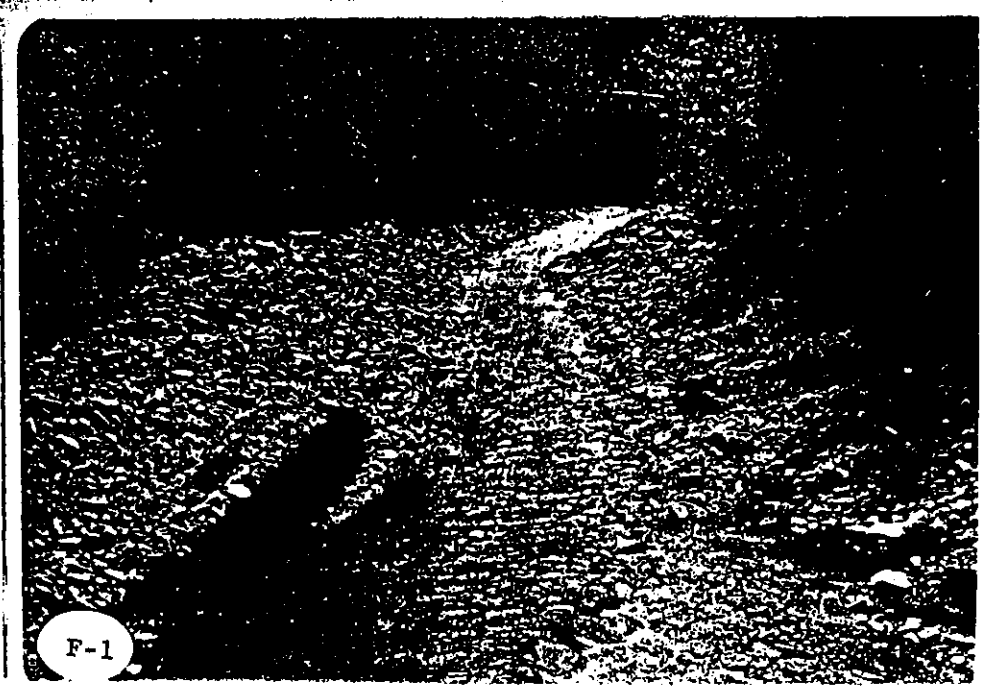

C-4

D-2

E-1

E-3


E-2


F-1

F-2

G-2

G-1

Table II

Office FF 105A
State Water Code _____
USFS Code _____

STREAM HABITAT SURVEY SUMMARY AND ANALYSIS

State -- County	District - Forest	Resource Area - P.U.
Nv. - Elko	Jarbridge - Humboldt Nat'l Forest	Channeled
Drainage	**Stream**	**Location**
JRDS	Jarbridge River	T. R. Sect.
Hydrographic Region	**Hydrographic Area**	
Investigators		**Date**
Siebert, Seron, Green, Hewitt, Wernsing		

General Data

Total length of stream (mi.)

Total length of stream:	Surveyed (mi.)	Percent Ownership
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 1, 2, and 3 (~~ft.~~) m	0
Total footage of desirable bottom materials (~~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 cover~~ Stream Environment, % optimum	75 %
~~Bank stability~~ Stream Eco., % 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: (°F or °C) Max.	7.5
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. Hach kit	
b. Chemical	
c. Coli	

1979 Channelization Project

Table I

Office FF I05A
State Water Code _____
USFS Code _____

STREAM HABITAT SURVEY SUMMARY AND ANALYSIS

State -- County	District - Forest	Resource Area - P.U.
Nv. Elko	Jarbridge, Humboldt Nat'l Forest	Natural
Drainage	**Stream**	**Location**
JRDS	Jarbridge River	T. R. Sect.
Hydrographic Region	**Hydrographic Area**	
Investigators		**Date**
Siebert, Seuss, Green, Hewitt, Werusing		

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

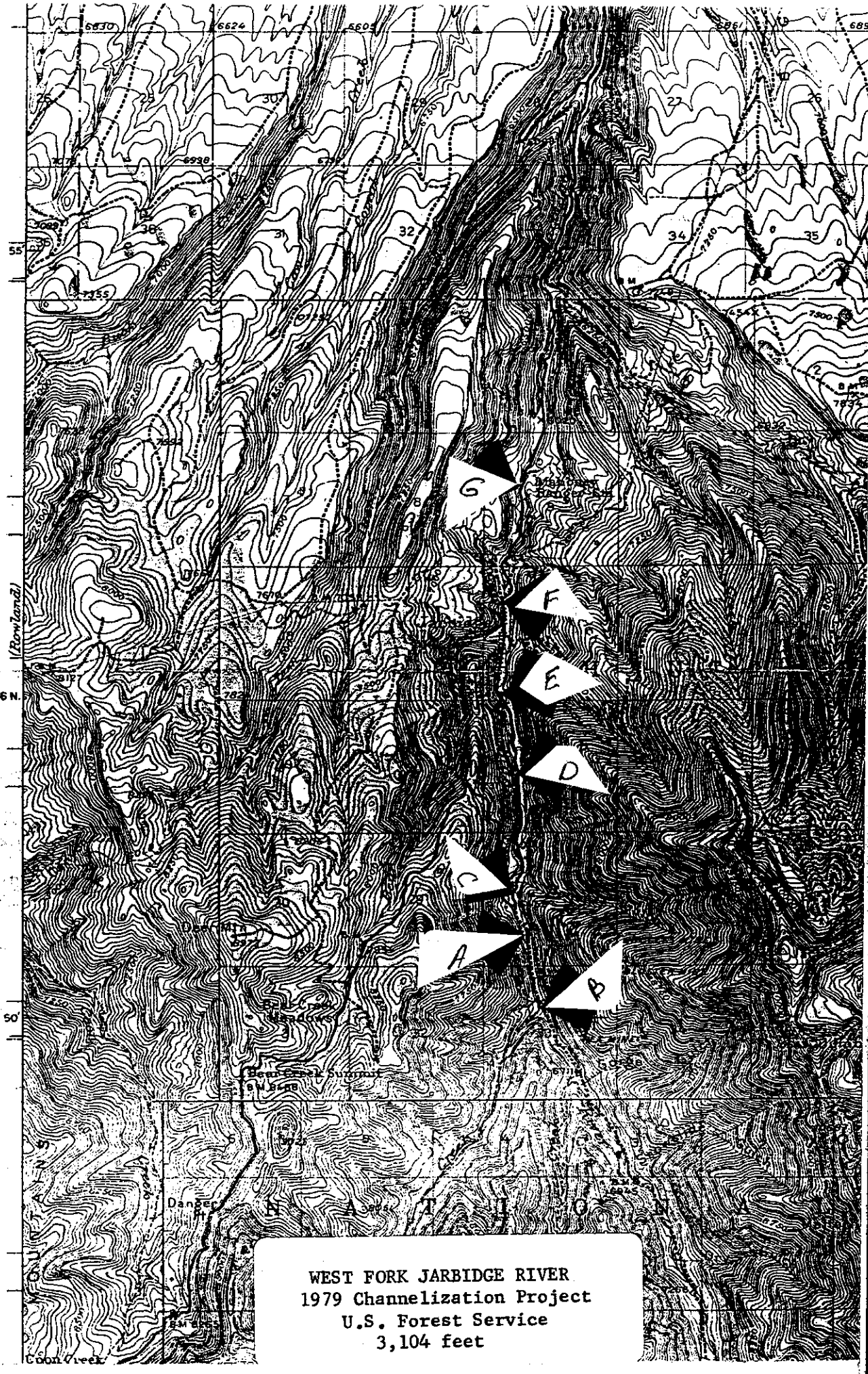
Total No. Sample Stations:	
a. BLM	X
b. Public	X
c. Private	X

Total of all stream width measurements (~~ft.~~) m	134.2
Total channel width (~~ft.~~) m	212.8
Total width - all pools (~~ft.~~) m	30.9
Total width of all pools classed 1, 2, and 3 (~~ft.~~) m	5.2
Total footage of desirable bottom materials (~~ft.~~) m	105.8
Total spawning gravels (~~ft.~~) m	33.0
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	23%
Pool-riffle ratio, % optimum	46%
Pool quality, % optimum	8%
Percent of stream bottom with desirable materials	79%
~~Bank cover~~ Stream environment, % optimum	68%
~~Bank stability~~ Stream env., % optimum	
Percent of habitat optimum	50%

Average depth of stream (~~ft.~~) m	.16m
Average width of stream (~~ft.~~) m	6.1
Percent stream shaded	21%
Percent of bottom with clinging vegetation (ft.)	0
Percent sedimentation	13%
Percent of bottom with rooted vegetation (ft.)	0
Average stream gradient (%)	3
Percent landform gradient RB	7.59%
LB	29.55
Average stream velocity (f/s)	2.59
Stream discharge (c.f.s.)	19.74
Average water temperature: (°F or °C) Max.	
Min.	
Turbidity description	
Access: (mi.)	
a. Remote	
b. Low standard trails	
c. Improved trails	
d. Low standard roads	
e. Improved roads	E
Water quality analysis:	None
a. Hach kit	
b. Chemical	
c. Coli	



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