

STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
LANDS AND RESTORATION SERVICES PROGRAM
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)

OFF-CHANNEL SITE INVENTORY DATA

General Information:

Region: North Coast	Observer(s): Nettnin
River System: Sol Duc	Date: 2/13/01
Site Identifier: S-324L-15	WRIA: 20.0324X
River Mile Location: 5.2	RB/LB: LB
Local Name: Silver Falls Creek	Trib. to: Beaver Creek (20.0324)
Legal Description: NW ¼, Sec 10, T30N, R12W	County: Clallam
Habitat Type: Upper valley wall tributary	
Landowner: (X) Federal () State () County () Other Government (X) Private - Rayonier Timber Operations Company - U.S. Forest Service	

Directions to site: North from Forks to M.P. 203.9. Turn left onto SR 113 (Burnt Mountain Road). Follow for 3.2 miles to a spur road to the right. Park at the road and walk to down to Beaver Creek. Cross Beaver Creek to the old grade and follow it up to the lake. Continue past the lake on the old grade to the second stream crossing (grade is blown out). This stream is S-324L-15.

- or -

North from Forks to M.P. 203.9. Turn left onto SR 113 and follow for 5.1 miles to NFR 3006 road to the right. Follow NFR 3006 for 0.5 miles to an old grade on the right. Park and follow the grade to where it is blown out. This is S-324L-15.

- or -

North from Forks to M.P. 203.9. Turn left onto SR 113 and follow for 5.1 miles to NFR 3006 road to the right. Follow NFR 3006 for 2.55 miles to a fork in the road. Bear right and follow for 0.1 miles to a stream crossing. This is the upper reach of S-324L-15.

Site Overview: The source of this stream and its tributaries is on the west slope of Deadmans Hill. It drains about 660 acres of forest land. About 150 acres of the watershed is old growth timber and the rest is second growth and young plantations. The land-form of the watershed is steep, but the main channel of this system has a gradient of 10 - 20%. Downstream of the grade, the channel enters a forested wetland. The channel becomes braided on high flows as it crosses the wetland to Beaver Creek. About 50 meters upstream of the grade, there is a seven meter high falls. Numerous small to moderate sized woody debris jams were observed in the middle reach. In the upper reach, upstream of the NFR 3064, the entire usable channel has been impacted by debris torrents since the latest timber harvest operations.

Habitat Information:

Water source: Surface runoff, tributaries and springs

Intermittent/year-around: Year-around

Estimated flows (cms): Lower end: 0.084 - 0.14 Upper end: not taken
6/6/01 Upper end: 0.006 - 0.028

Water temperatures: Lower end: 3.5°C Upper end: not taken
6/6/01 Upper end: 7.5° - 8.0°C

Adjacent stream temperature: 4.5°C
6/6/01: 8.0°C

Other water observations: Water is clear

Site area measurements: Indirect Direct Combination
Widths: Channel- 3.0 - 5.0 m Ponds- NA Wetlands- 3.0 - 5.0
Depths: Channel- 5 - 100 cm Ponds- NA Wetlands- 10 -100 cm
Total length surveyed: 450 m to the falls, 1350 m from falls to NFR 3064. There is about 330 m upstream of the NFR 3064 that was not physically surveyed.

Total existing habitat area (est.): 7,700 m²
Spawning area: 100 m² Above the Falls: 500 m²
Impounded area: 0 m² Above the Falls: 0 m²
Other rearing area: 1,700 m² Above the Falls: 5,400 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- The spawning gravel downstream of the falls is plentiful, clean, and has optimum size ranges.
- There are numerous pool tailouts and riffles.
- The lower channel is susceptible to high flows from both Beaver Creek and from instream flows.
- The gravel substrate upstream of the falls, near the road crossing, is angular in formation and impregnated with fine materials.
- There are numerous tailouts and other spawning areas upstream of the falls.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- There is no pond habitat associated with this channel.
- The channel is susceptible to flashy flows.
- There are some stable/functioning large woody debris pieces downstream of the grade but overall, it is lacking.
- During low summer flows, the lower channel may have intermittent flows.
- Overhead cover is provided by primarily a hardwood canopy and brush understory except for in the upper reach.
- There is sufficient woody debris in the reaches above the falls. In some areas, there is an over abundance of wood in the channel.

Describe unaccessible habitat:

- The 1,700 meters above the falls has cottids. Trout were not observed or captured. The observed channel gradient is 7 - 10% with numerous small to moderate woody debris jams. The substrate ranges from gravel to rubble with a few scattered boulders. In some areas, the gravel has an abundance of fine materials. This may be due to recent slope failures. The riparian areas along most of the reaches were cut during the various harvest activities. The stream banks now support different age classes of alders.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- The channel is braided but well defined.
- There is gravel throughout the channel to the confluence.
- The associated area along the channel is dense salmonberry and alder. There are vine maples, devils club and stink currents mixed in.

Flooding potential: Low Medium High

- The upper reaches are susceptible to flushing flows.
- The lower channel is susceptible to overbank storage from Beaver Creek and from the channel itself.

Fish Information:

Site entry condition to Beaver Creek: Poor Fair Good

- The egress channel braids through the main wetland. It merges with Beaver Creek in a back eddy.

Coho access and use:

- Juvenile- Unknown None Poor Fair Good
- Adult- Unknown None Poor Fair Good
- This channel is above an anadromous barrier.

Other species access and use: Chum Pink Sockeye Chinook Trout

- No fish were observed during the survey.
- Four minnow traps were set above the falls and 21 cottid were captured.

Habitat Improvements:

Enhancement opportunities:

- Possible project type:
 - Maintain the integrity of the stream.
- Equipment access - Old grade to the falls, and NFR 3064 to the upper middle reach.

Additional Comments: G.P.S. egress location: East- 1,087,010.6220 North- 1,035,773.0340
End survey- East- 1,092,916.0620 North- 1,032,243.8280
Culvert- East- 1,092,552.1100 North- 1,033,202.1140

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- Aerials Sketch Maps Culvert Report
- Other references Spawning surveys Juvenile trapping Fishway Report

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Sol Duc

Site No.: S-324L-15
Site Name: Silver Falls Cr
WRIA: 20.0324X

DATE: 3/6 - 3/7/01

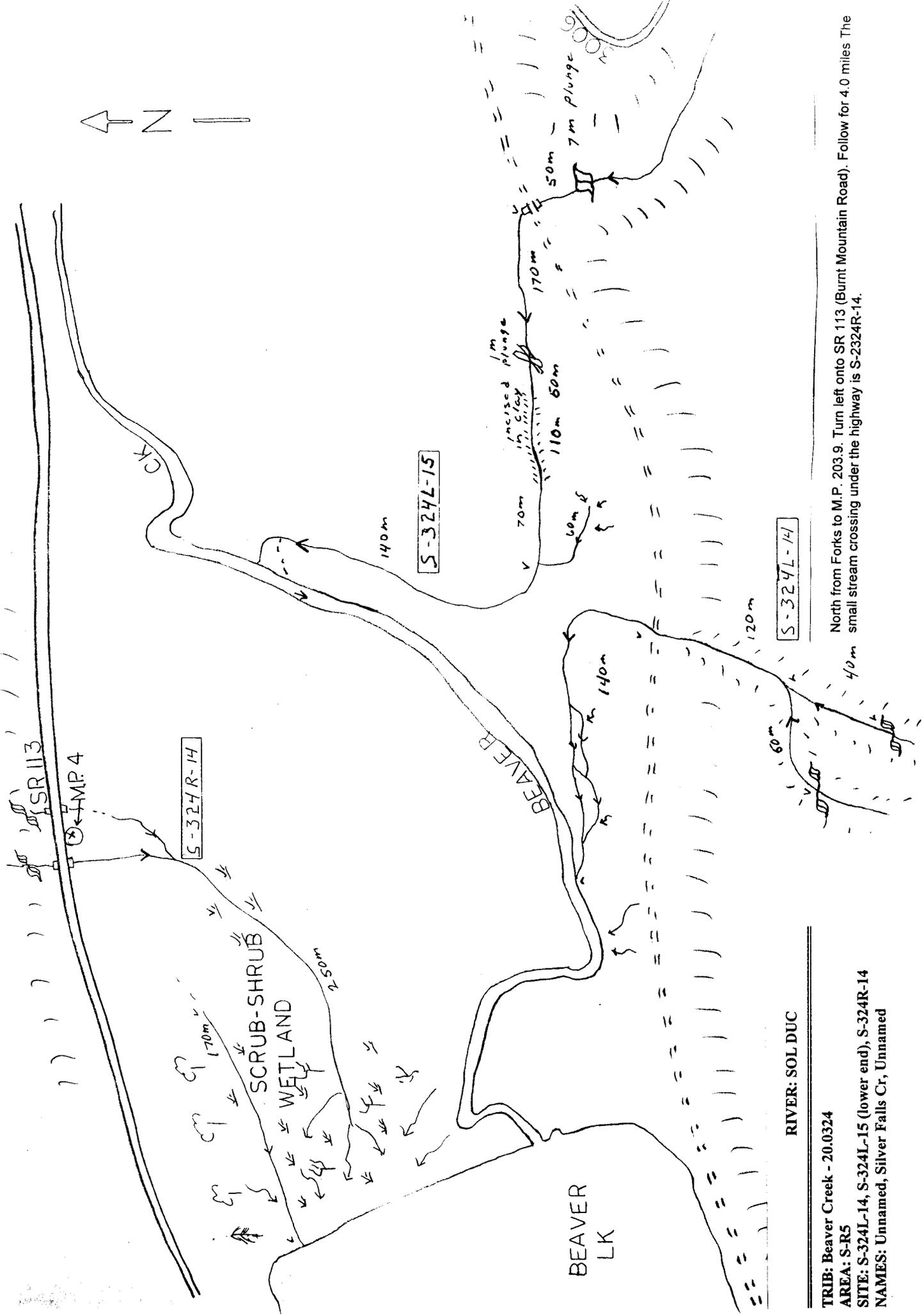
OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT		0+	
						RBT	CUTT		
1	3/6	5.5°C	3/7	5.5°C	0	0	0	0	3
2	3/6	5.5°C	3/7	5.5°C	0	0	0	0	2
3	3/6	5.5°C	3/7	5.5°C	0	0	0	0	0
4	3/6	5.5°C	3/7	5.5°C	0	0	0	0	16
TOTALS:					0	0	0	0	21

COMMENTS:

- Trap 1 was placed 50 m downstream from a cross drain with an attached half culvert.
- Trap 2 was placed 40 meters downstream of the major left bank tributary.
- Trap 3 was placed 40 meters downstream of trap #4.
- Trap 4 was placed 140 m upstream of the narrow point of the channel, below a wide pullout on the right side of the road headed in.
- All traps were baited with salmon roe.



North from Forks to M.P. 203.9. Turn left onto SR 113 (Burnt Mountain Road). Follow for 4.0 miles The small stream crossing under the highway is S-2324R-14.

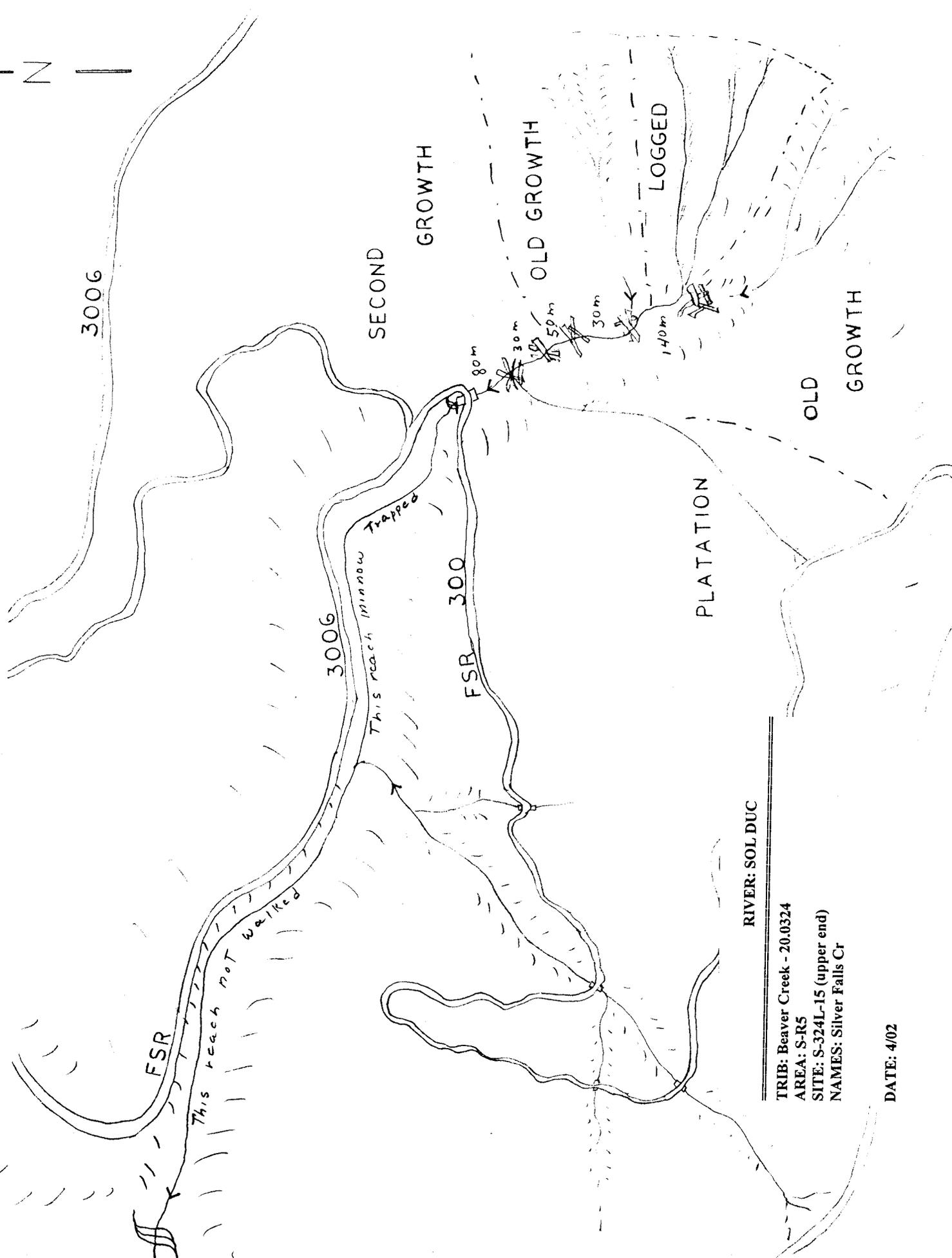
North from Forks to M.P. 203.9. Turn left onto SR 113 (Burnt Mountain Road). Follow for 3.2 miles to a spur road to the right. Park at the road and walk down to Beaver Creek. Cross Beaver Creek and follow to the old grade.

RIVER: SOL DUC

TRIB: Beaver Creek - 20.0324
 AREA: S-R5
 SITE: S-324L-14, S-324L-15 (lower end), S-324R-14
 NAMES: Unnamed, Silver Falls Cr, Unnamed

DATE: 4/02

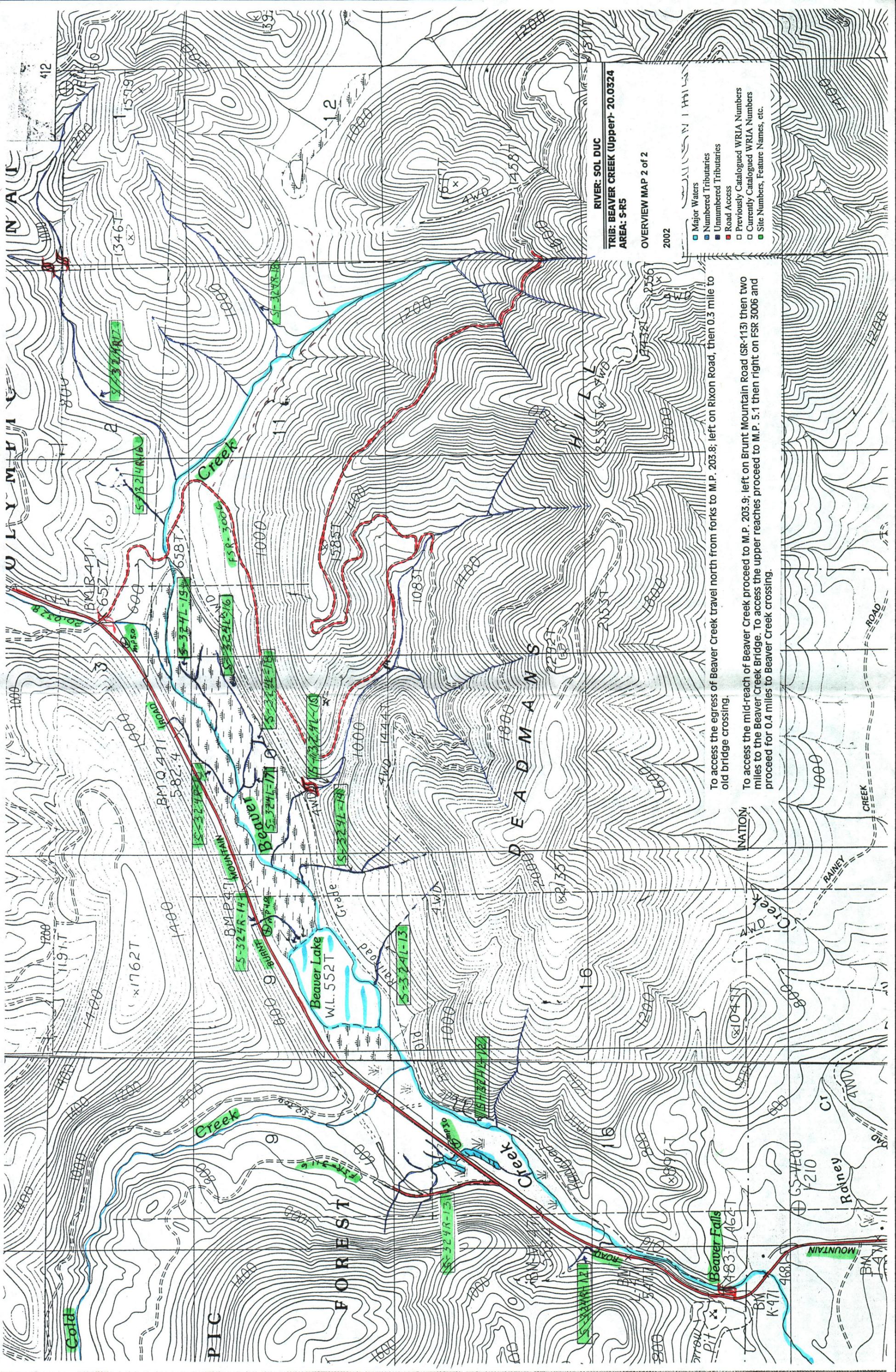
North from Forks to M.P. 203.9. Turn left onto SR 113 and follow for 5.1 miles to FSR 3006 road to the right. Follow FSR 3006 for 2.55 miles to a fork in the road. Bear right and follow for 0.1 miles to a stream crossing. This is the upper reach of S-324L-15.



RIVER: SOL DUC

TRIB: Beaver Creek - 20.0324
AREA: S-R5
SITE: S-324L-15 (upper end)
NAMES: Silver Falls Cr

DATE: 4/02



RIVER: SOL DUC
 TRIB: BEAVER CREEK (Upper)- 20.0324
 AREA: S-R5

OVERVIEW MAP 2 of 2
 2002

- Major Waters
- Numbered Tributaries
- Unnumbered Tributaries
- Road Access
- Previously Catalogued WRIA Numbers
- Currently Catalogued WRIA Numbers
- Site Numbers, Feature Names, etc.

To access the egress of Beaver Creek travel north from forks to M.P. 203.8; left on Rixon Road, then 0.3 mile to old bridge crossing.
 To access the mid-reach of Beaver Creek proceed to M.P. 203.9; left on Brunt Mountain Road (SR-113) then two miles to the Beaver Creek Bridge. To access the upper reaches proceed to M.P. 5.1 then right on FSR 3006 and proceed for 0.4 miles to Beaver Creek crossing.

NATION: