

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):** Powell
River System: Sol Duc **Date:** 1/15/97
Site Identifier: S-0336 **WRIA:** 20.0336
River Mile Location: 40.2 (WRIA location 40.6 is wrong) **RB/LB:** RB
Local Name: Wisen Creek **Trib. to:** Sol Duc (20.0096)
Legal Description: NW¼ Sec 31 T30N R11W **County:** Clallam
Habitat Type: Terrace tributary

Landowner: Federal State County Other Government Private
- Washington State Dept of Natural Resources
- Rayonier Timber Operating Co.
- G. Johnson
- D. Ritter

Directions to site:

Starting at Forks (Tillicum Park) drive north on Highway 101 for 17.45 miles. S-0336 crosses the highway at this point. About 0.05 mi further down the highway is Wisen Road on the left. The main fork of this channel also crosses this road (~0.1mi), flowing from the east direction.

Site Overview:

The source appears to flow from a moderate-high gradient into a wide scrub/shrub wetland that feeds a moderate size beaver pond which has an abundance of LOD. The channel is mostly lower gradient with steep side slopes in the upper reach. The surrounding features of this stream change as it flows through the various land ownerships. This channel flows through recent (upper reach) and older (lower reach) logging units, and through small property ownership (mid reach). The RMZ is predominantly alder which had many busted tops and limbs from past winter storms. This stream has good sections of gravel and is utilized by coho adults.

Habitat Information:

Water source: Springs, tributaries, surface runoff

Intermittent/year-around:

- Probably year-around

Estimated flows (cfs): 2+

Water temperatures: 4.0° C

Adjacent stream temperature: 3.5° C (20.0096)

Other water observations: Water is clear

Site area measurements: Indirect Direct Combination

Widths: Channel- 1 m - 2.5 m Ponds- 4.5 m - 6 m Wetlands- 20 m - 30 m

Depths: Channel- 7 cm - 30 cm Ponds- 0.6 + m Wetlands- 2.5 cm - 10 cm

Total length (includes ponds and wetlands): 2685+ m (estimate through Johnson property and wetland appeared to be longer but I stopped at active cutting boundary).

Total existing habitat area (est.): 4400+ m²

Spawning area: 2400 m²

Impounded area: 520 m²

Other rearing area: 1480 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- There are some stretches that contain quality gravel for coho spawning.
- The upper reach becomes rocky then turns into a muddy substrate.
- The Quileute Tribe assumes no coho production between RM 0.0 and 0.9. They assume production from RM 0.9 to 1.3.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- Upper reach of the channel has a moderate size beaver pond; beaver dam appears passable during higher flows.
- Pond has lots of LOD and would offer good winter rearing.
- The channel has lots of brush, a mix canopy of mostly alder with some conifer.
- There was an abundance of alder tops/limbs in the channel from recent winter storms.
- The mid reach of channel, through private residence, is utilized for domestic animal; it lacks brush and it appears that the banks are partially degraded.

Describe unaccessible habitat:

- Upper reach may be unaccessible during low flows due to a 1.5 - 2 ft plunge from a culvert on a DNR logging road.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- Wide, shallow wetland which water braids through.
- Wetland may be too shallow for fish usage.
- Wetland is composed of brush, old dead snags, LOD, stunted conifer, water parsley, and skunk cabbage.
- Wetland appeared to extend beyond cutting boundary.

Flooding potential: Low Medium High

- Over bank flows from river affect the first 20 m of channel.

Fish Information:

Site entry condition to (Sol Duc River 20.0096): Poor Fair Good

- The channel egresses into a bend in the river that has an eddy.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- It is assumed the juvenile coho utilize this system.
- The Quileute Tribe assumes some coho spawning takes place in this system.
- Observed what appeared to be two older redds.

Other species access and use: Chum Pink Sockeye Chinook Trout

- It is assumed that trout utilize this system.

Habitat Improvements:

Enhancement opportunities:

- Replace culvert that has a 1.5 - 2 ft drop that is located on DNR logging road (off Wisen Road).

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- | | | | |
|---|--|--|--|
| <input checked="" type="checkbox"/> Aerials | <input checked="" type="checkbox"/> Sketch | <input checked="" type="checkbox"/> Maps | <input checked="" type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input type="checkbox"/> Spawning surveys | <input type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report |

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Sol Duc

Site No.: S-0336

Site Name: Wisen Cr.

WRIA: 20.0336

DATE: 8-28-97

OBSERVER: Powell

It has been dry for ~6 week then we recieved ~2 inches of rain; this channel was flowing about 1.5 - 1.75 cfs at the highway crossing .

DATE: 2-27-98

OBSERVER: Powell

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT			
						RBT	CUTT	0+	
1	2/26	7.0°C	2/27	6.0°C	0	0	4	0	0
2	2/26	7.0°C	2/27	6.0°C	0	0	1	0	3
3	2/26	7.0°C	2/27	6.0°C	1	0	1	0	3
4	2/26	7.0°C	2/27	6.0°C	0	0	1	0	1
5	2/26	7.0°C	2/27	6.0°C	0	0	0	0	0
6	2/26	7.0°C	2/27	6.0°C	2	0	2	0	6
7	2/26	7.0°C	2/27	6.0°C	0	0	2	0	0
TOTALS:					3	0	11	0	13

COMMENTS:

- Trap #1 was placed ~ 25 feet downstream of forth upstream culvert (on logging road).
- Trap #2 was placed ~ 45 feet downstream of forth upstream culvert.
- Trap #3 was placed ~ 15 feet downstream from trap #3.
- Trap #4 was placed ~ 40 feet upstream of forth upstream culvert (on logging road).
- Trap #5 was placed ~ 15 feet upstream from trap #4.
- Trap #6 was placed ~ 15 feet upstream from trap #5.
- Trap #7 was placed ~ 15 feet upstream from trap #6.
- Trap #5 was placed ~ 15 feet upstream from trap #5.

RIVER: SOL DUC

AREA: S-R6

AREA MAP

DATE: Spring/97

