

Total existing habitat area (est.): 700 m²

Spawning area: 24 m²

Impounded area: 676 m²

Other rearing area: NA

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

-Prior to the project in 2001, there was little spawning area.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- This channel has cover of LOD and brush.

- There is an overhead canopy from vine maple and mature alder.

- There is water springing off adjacent wall all along the channel length.

Describe unaccessible habitat:

- None

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

Flooding potential: Low Medium High

Fish Information:

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

- This channel egresses into a rocky river side channel.

- The side channel is ~75 m long from the river to S-L8-02 egress.

- The side channel egresses into a downstream bend in the river.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

Other species access and use: Chum Pink Sockeye Chinook Trout

Habitat Improvements:

Enhancement opportunities:

- The recommendation from the original survey was to add plank controls to expand the rearing area. This was done in 2000.

GPS: (decimal degrees, Datum WGS84): 12/02

upper project - N48.05911, W124.00181

lower project/egress - N48.05956, W124.00529

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

DATE: 7-11-97

OBSERVER: Powell

More rainfall than normal this early summer. Lots of water still flowing off upper terrace into the channel.

DATE: 1-14-99

OBSERVER: Powell

M&R Timber Co. was allowed to cut alder in the RMZ of this channel and the river due to the prescriptions in watershed analysis (converting alder to conifer dominant stands). They left the alder on the south side of the channel.

There is more water that springs further upstream than the original survey depicted.

DATE: 1-15-99

OBSERVER: Powell

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						RBT	CUTT	0+	
1	1/14	8.0°C	1/15	7.0°C	2	0	0	0	3
2	1/14	8.0°C	1/15	7.0°C	8	0	0	5	4
3	1/14	8.0°C	1/15	7.0°C	0	3	1	0	0
4	1/14	8.0°C	1/15	7.0°C	1	0	0	3	1
5	1/14	8.0°C	1/15	7.0°C	1	6	0	2	2
6	1/14	8.0°C	1/15	7.0°C	0	4	1	2	4
7	1/14	8.0°C	1/15	7.0°C	0	3	0	0	2

TOTALS: 12 16 2 12 16

COMMENTS:

- High river flows on 1/15 but channel was not backing up - the water was clear.
- Trap 1 was placed upstream of cutting boundary on channel. There were trees cut on both sides of this channel at this point but mostly from the north side.
- Trap 2 was placed at cutting boundary on channel (more RMZ for channel). Water was slow.
- Trap 3 was placed directly downstream of main terrace flow. Flow was appreciable from this point on.
- Trap 4 was placed at the point where tree harvest ceased.
- Trap 5 was placed ~ 15 feet downstream of trap # 4.
- Trap 6 was placed ~ 20 feet downstream of trap # 5.
- Trap 7 was placed ~ 15 feet downstream of trap # 6 and ~ 30 feet from the channel egress.

DATE: 8-23-00

OBSERVER: Nettnin

Utilized the DNR Honor Camp Crew to install four plank weirs, assisted WDFW construction crew, and spread hay on the disturbed areas.

DATE: 9-00

OBSERVER: King

WDFW - SSHEAR section installed twelve plank controls in the streambed to backwater additional rearing habitat. Spawning gravel was added upstream from each control to encourage spawning if adult fish should happen to enter the stream.

DATE: 1/11/01

OBSERVER: Powell

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						RBT	CUTT	0+	
1	1/10	7°C	1/11	7°C	0	0	0	0	0
2	1/10	7°C	1/11	7°C	0	0	1	0	0
3	1/10	7°C	1/11	7°C	0	0	3	0	3
4	1/10	7°C	1/11	7°C	0	0	0	0	3
5	1/10	7°C	1/11	7°C	0	0	1	0	1
6	1/10	7°C	1/11	7°C	0	0	1	0	2
7	1/10	7°C	1/11	7°C	1	0	0	0	0
8	1/10	7°C	1/11	7°C	0	0	5	0	9
9	1/10	7°C	1/11	7°C	0	0	0	0	11
10	1/10	7°C	1/11	7°C	1	0	0	3	1

TOTALS: 2 0 11 3 27

Average size: 82 mm STD: 0 Min-Max: 82 Count: 2 fish

COMMENTS:

Dryer than normal fall and winter. Took some time to charge this system. On this date, there was a good flow from the main spring to the egress.

- Trap 1 was placed between the 5th and 6th controls, upstream of the main spring input.
- Trap 2 was placed downstream of the 6th control.
- Trap 3 was placed 2 meters upstream of the 7th control.
- Trap 4 was placed 1 meter downstream of the 7th control.
- Trap 5 was placed 1 meter upstream of the 8th control.
- Trap 6 was placed 3 meters downstream of the 8th control.
- Trap 7 was placed 1 meter upstream of the 9th control.
- Trap 8 was placed 2 meters downstream of the 9th control.
- Trap 9 was placed halfway between the 9th and 10th controls.
- Trap 10 was placed halfway between the 11th and 12th controls, near the egress.

DATE: 4-15-01

OBSERVER: Powell

Lower than normal precipitation this winter and early spring. Once this site was watered, it had continuous good flows even through the dry periods. The upper five weirs have never watered up (upstream of the main spring).

DATE: 4/18/01

OBSERVER: Powell

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		RBT	CUTT	0+	
1	4/17	8°C	4/18	8°C	1	0	0	0	1
2	4/17	8°C	4/18	8°C	0	0	0	0	0
3	4/17	8°C	4/18	8°C	0	0	0	0	0
4	4/17	8°C	4/18	8°C	0	0	0	0	1
5	4/17	8°C	4/18	8°C	0	0	1	0	0
6	4/17	8°C	4/18	8°C	0	0	1	0	0
7	4/17	8°C	4/18	8°C	1	0	0	0	5
8	4/17	8°C	4/18	8°C	1	0	0	0	9
9	4/17	8°C	4/18	8°C	0	0	2	0	3
10	4/17	8°C	4/18	8°C	0	0	0	0	1
TOTALS:					3	0	4	0	20

Average size: 100.7 mm STD: 5.4 Min-Max: 95-108 Count: 3 coho

COMMENTS:

- Trap 1 was placed at the base of the 5th control, near the main spring input.
- Trap 2 was placed downstream of the 6th control.
- Trap 3 was placed directly upstream of the 7th control.
- Trap 4 was placed directly downstream of the 7th control.
- Trap 5 was placed directly upstream of the 8th control.
- Trap 6 was placed directly downstream of the 8th control.
- Trap 7 was placed directly downstream of the 9th control.
- Trap 8 was placed between the 9th and 10th controls.
- Trap 9 was placed between the 10th and 11th controls.
- Trap 10 was placed between the 11th and 12th controls, near the egress.

DATE: 11-28-01

OBSERVER: King

No adults or juveniles were observed. Access from the river looks good. Pools need additional woody debris.

DATE: 1-10-02

OBSERVER: King

One adult coho was observed at the mouth of the channel. The lower six controls had some spawning activity. The upper pond is still leaking badly. During recent high flows, the pond filled up and water was flowing over the upper weir.

DATE: 2-27-02

OBSERVER: King

Water that was flowing into the sink hole in the upper end was blocked off by a sandbag berm. Water does flow over upper control during freshets. The pond is still leaking. All other weirs that have flow look fine.

DATE: 2/25/02

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			
	SET	TEMP	PULLED	TEMP		RBT	CUTT	0+	COTTID
1	2/24	6°C	2/25	6°C	0	3	0	4	3
2	2/24	6°C	2/25	6°C	1	1	0	0	1
3	2/24	6°C	2/25	6°C	6	5	0	0	12
4	2/24	6°C	2/25	6°C	1	0	0	0	8
5	2/24	6°C	2/25	6°C	0	1	0	0	6
6	2/24	6°C	2/25	6°C	0	0	0	0	0
7	2/24	6°C	2/25	6°C	0	0	0	0	8
8	2/24	6°C	2/25	6°C	0	0	1	0	0
9	2/24	6°C	2/25	6°C	1	2	0	0	5
10	2/24	6°C	2/25	6°C	0	0	0	0	0
TOTALS:					9	12	1	4	43

Average size: 87.7 mm STD: 8.4 Min-Max: 72-102 Count: 9 coho

COMMENTS:

- Trap 1 was placed between the 9th and 10th controls, near the egress.
- Trap 2 was placed between the 8th and 9th controls.
- Trap 3 was placed directly downstream of the 8th control.
- Trap 4 was placed directly upstream of the 8th control.
- Trap 5 was placed directly downstream of the 7th control.
- Trap 6 was placed directly upstream of the 7th control.
- Trap 7 was placed directly downstream of the 6th control.
- Trap 8 was placed directly upstream of the 6th control.
- Trap 9 was placed directly downstream of the 5th control.
- Trap 10 was placed directly upstream of the top end control.

Coho and trout were all in good shape.

DATE: 4/17/02

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		RBT	CUTT	0+	
1	4/16	7.5°C	4/17	7.5°C	0	2	1	0	6
2	4/16	7.5°C	4/17	7.5°C	1	1	4	0	0
3	4/16	7.5°C	4/17	7.5°C	4	0	0	1	7
4	4/16	7.5°C	4/17	7.5°C	0	0	0	0	3
5	4/16	7.5°C	4/17	7.5°C	4	0	0	0	23
6	4/16	7.5°C	4/17	7.5°C	7	0	0	0	6
7	4/16	7.5°C	4/17	7.5°C	0	0	0	0	7
8	4/16	7.5°C	4/17	7.5°C	3	0	0	4	6
9	4/16	7.5°C	4/17	7.5°C	2	0	0	0	0
10	4/16	7.5°C	4/17	7.5°C	(*4)	0	1	6	1
TOTALS:					21	3	6	11	59

*coho fry - not included in the total nor sizes below
Average size: 93.5 mm STD: 10.7 Min-Max: 75-121 Count: 21 coho

COMMENTS:

- Trap 1 was placed downstream of the 7th control, near the upper channel.
 - Trap 2 was placed between upstream of the 7th control.
 - Trap 3 was placed directly downstream of the 8th control.
 - Trap 4 was placed directly upstream of the 8th control.
 - Trap 5 was placed directly downstream of the 10th control.
 - Trap 6 was placed directly upstream of the 10th control.
 - Trap 7 was placed directly downstream of the 11th control.
 - Trap 8 was placed directly upstream of the 11th control.
 - Trap 9 was placed directly upstream of the 12th control.
 - Trap 10 was placed directly downstream of the lowest control, near the egress.
- Coho and trout were all in good shape and all sizes.

DATE: 12/06/02

OBSERVER: King

Lower seven weirs have flow. Lots of juvenile fish. Low flows.

GPS: (decimal degrees, Datum WGS84):

upper project - N48.05911, W124.00181
lower project/egress - N48.05956, W124.00529

DATE: 12/23/02

OBSERVER: Powell

There was some digging on gravel patches upstream of a few weirs.

DATE: 5/8/03

OBSERVER: Powell

Upper end has more water than I have seen in the past. There is a pool of water up to the upper control. It is up the base of the board by a couple inches. It does not appear to have flown over at any point.

DATE: 10/22/03

OBSERVER: Nettnin

Lower channel looks good. One coho observed. Appears that water did flow over upper weirs during the heavy freshet.

RIVER: SOL DUC

AREA: S-R8, S-L8
SITES: S-R8-01, S-L8-02
WRJA: 20.0344A, 20.0344B
NAMES: Heidelberg Cr, M & R Sp

DATE: 2/97
Revised: 10/00



