

**ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT**

STREAM: Honeygrove Creek (MC-35)
BASIN: Alsea River
SURVEY TYPE: Pre-Tx
DATE: July 10, 2000
SURVEY CREW: Lisa Krentz, LaNoah Babcock
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 16.2 km²
USGS MAPS: Alsea
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Honeygrove Creek habitat survey extended 436 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 3.7 (range: 1.5 – 6.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (59%) and riffles (21%) dominated stream habitat. Gravel (44%) and fines (36%) dominated stream substrate. Wood volume was low at 11.1 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

REACH 1

T14S-R7W-5NE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0	Constraining Terraces	0
Moderate V-shape	0	Multiple Terraces	100
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 3.7 range: 1.5-6.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	100
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	0		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	436	2,040	0
Secondary	174	617	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.9	Width	9.5	24.2	12.4
Depth	0.44	Height	0.6	1.2	1.2
		W:D ratio	15.7	Entrenchment	2.5

Stream Flow Type: MF Water Temp: 0.0-0.0°C
 Avg. Unit Gradient: 0.8% Habitat Units/100m: 6.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D30	P

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	10%	Reach avg: 67%
Undercut Banks	19%	Range: 39- 89

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	93	21.3
Volume (m ³)	48	11.1
Key pieces (≥10m x 0.6m)	2	0.5

REACH 1

T14S-R7W-5NE

REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
GLIDE	2	42	5.7	0.23	232	0	18	28	50	5	0	0
POOL-ALCOVE	1	32	4.8	0.40	156	0	100	0	0	0	0	0
POOL-BACKWATER	2	12	3.4	0.35	44	0	95	0	5	0	0	0
POOL-ISOLATED	3	17	1.6	0.23	26	0	80	0	10	10	0	0
POOL-LATERAL SCOUR	17	304	4.7	0.73	1,571	0	42	7	44	6	1	0
PUDDLED CHANNEL	1	17	1.2	0.00	21	0	0	50	50	0	0	0
RIFFLE	9	149	2.4	0.14	382	5	6	7	62	24	1	0
RIFFLE W/ POCKETS	1	32	5.6	0.30	179	0	0	20	70	10	0	0
STEP/COBBLE	1	6	8.5	0.05	48	0	0	0	80	20	0	0
Total:	37	610	3.9	0.44	2,657	5	Avg:36	8	44	11	1	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	6	61	2.7	0.30	225	8.47	0	0.0
Scour Pools	17	304	4.7	0.73	1,571	59.13	0	0.0
Glides	2	42	5.7	0.23	232	8.72	0	0.0
Riffles	10	181	2.8	0.16	561	21.09	5	0.9
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	1	6	8.5	0.05	48	1.79	0	0.0
Dry	1	17	1.2	0.00	21	0.79	0	0.0

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	23	37.7
Pools ≥1m deep:	3	4.9
Complex pools (LWD pieces ≥3):	10	16.4
Pool Frequency (channel widths/pool):	2.8	
Residual pool depth (avg)	0.60m	

STREAM SUMMARY

HONEY GROVE CREEK (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
37	610	3.9	0.44	2,657	36	8	44	11	1	0	5

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,571	59.1
Backwater Pools	225	8.5
Glide	232	8.7
Riffle	561	21.1
Rapid	0	0.0
Cascade	0	0.0
Step	48	1.8
Dry	21	0.8

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	813
Total conifers/1000 ft	224
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	1.3	0.0	2.3	1.0	2.3	1.0	6.0
15-30cm	0.0	2.0	0.0	1.3	0.3	1.0	0.3	4.3
30-50cm	0.0	1.0	0.3	0.7	1.3	0.7	1.7	2.3
50-90cm	0.0	0.3	0.3	0.0	0.3	0.3	0.7	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.0	4.7	0.7	4.3	3.0	4.3	1.2	4.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	86		71		75	
Shrub cover	11		3		3	
Grass/forb cover	89		97		84	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		33		67
High terrace	17		33		17	
Low terrace	50		33		17	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	13		7		6	

Summary of Riparian Zone (0-30m) for all reaches (3 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	813
Total conifers/1000 ft	224
Total conifers >20" dbh/1000 ft	41

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	1.0	6.0
15-30cm	0.3	4.3
30-50cm	1.7	2.3
50-90cm	0.7	0.7
>90cm	0.0	0.0

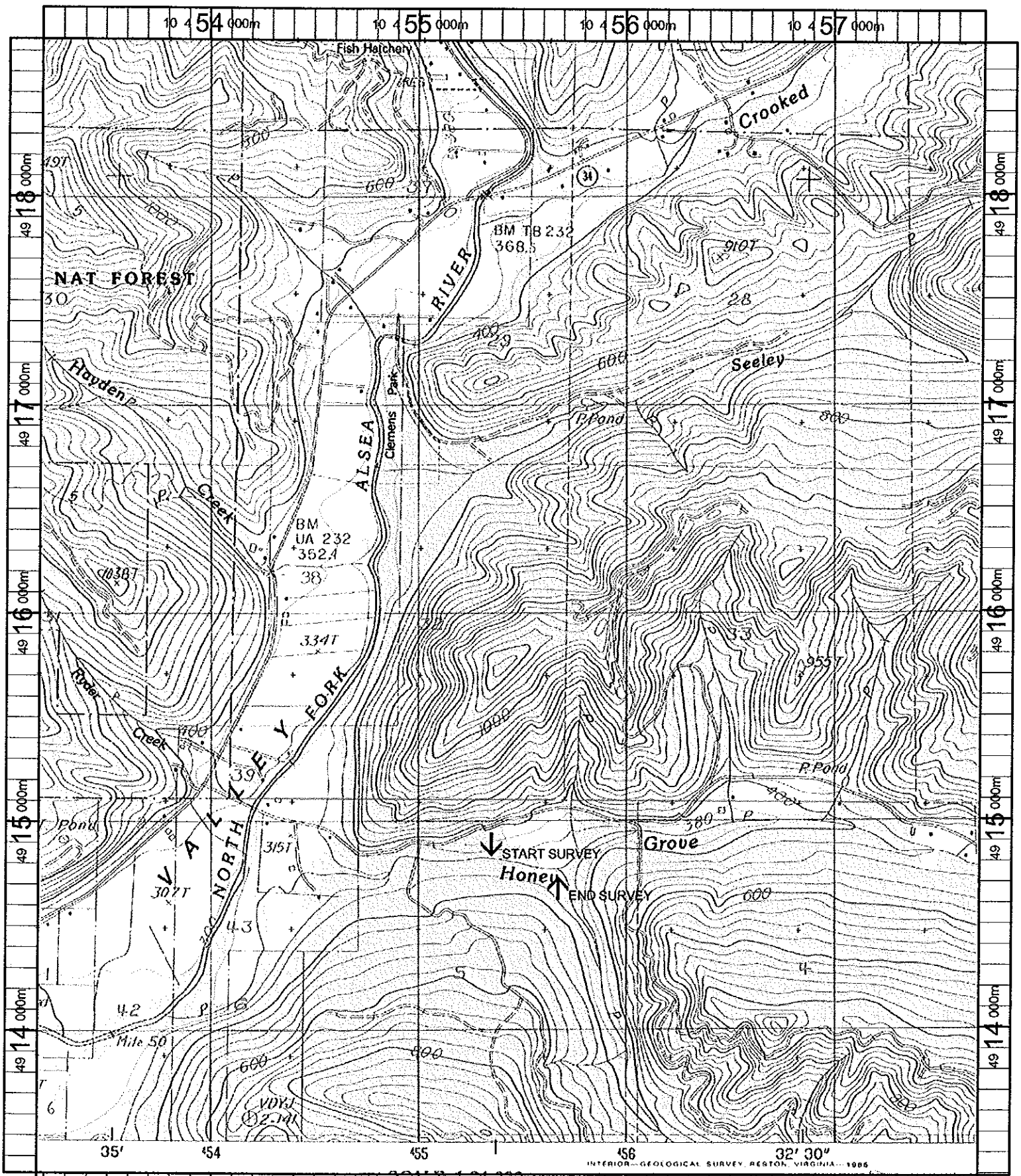
RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
13	LF	1	HS	20.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	ALDER
13	LF	2	HS	20.0	95	0	100	Conifer	0	0	0	1	0	
								Hardwood	0	1	0	0	0	MAPLE
13	LF	3	HS	5.0	70	0	100	Conifer	0	0	0	0	0	
								Hardwood	7	0	0	0	0	
13	RT	1	LT	0.0	85	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
13	RT	2	LT	0.0	85	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
13	RT	3	LT	0.0	85	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
20	LF	1	LT	0.0	90	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
20	LF	2	LT	0.0	70	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
20	LF	3	HS	20.0	90	0	100	Conifer	0	1	1	1	0	
								Hardwood	0	2	2	1	0	DOUGLAS FIR
20	RT	1	HS	60.0	90	40	60	Conifer	0	0	0	0	0	
								Hardwood	2	2	3	0	0	
20	RT	2	HS	20.0	90	10	90	Conifer	0	0	1	0	0	
								Hardwood	6	1	2	0	0	MAPLE, ALDER
20	RT	3	HS	5.0	85	15	85	Conifer	0	0	3	0	0	
								Hardwood	0	0	0	0	0	
27	LF	1	LT	0.0	80	5	95	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	1	0	
27	LF	2	HT	0.0	85	10	90	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	
27	LF	3	HS	5.0	100	5	30	Conifer	3	0	0	0	0	
								Hardwood	0	1	0	0	0	FIR, ALDER
27	RT	1	HT	0.0	80	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
27	RT	2	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
27	RT	3	HT	0.0	20	0	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
27	RT			0.0	0	0	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	



Name: ALSEA
 Date: 11/1/100
 Scale: 1 Inch equals 2000 feet

Location: 10 455343 E 4916008 N
 Caption: HONEY GROVE CREEK RESTORATION SITE - ALSEA BASIN