

ODFW AQUATIC INVENTORY PROJECT

STREAM REPORT

STREAM: Mosby Creek

BASIN: Coast Fork Willamette River Basin

DATES: June 23 – July 30, 2008

SURVEY CREW: Josh Togstad and David Maliszewski

REPORT PREPARED BY: Peggy Kavanagh

STREAM ORDER: 4 BASIN AREA: 252km² FIRST ORDER TRIBUTARIES: 126

USGS MAPS: Dorena Lake, Silica Mountain, Burnt Mountain, Blue Mountain, Cottage Grove

ECOREGION: Cascades West

HUC NUMBER: 17090002

LLID: 1230137437800

GENERAL DESCRIPTION:

The Mosby Creek habitat survey began upstream from its confluence with the Row River and extended almost 37 kilometers to end at the junction of East Fork and Middle Fork Mosby Creeks. The first 7 reaches spanned private land ownership; the final 14 were on Weyerhaeuser property. The majority of the reaches were based upon named tributaries entering Mosby Creek. The landuse was rural residential for reaches 1 through 7. Second-growth timber (15-30cm dbh) was the dominant landuse for the remainder of the survey with timber harvest appearing in some reaches. Scour pools and riffles comprised most of the stream habitat. The substrate was predominantly cobble, bedrock, and gravel. There was little wood; the wood volume ranged from 0.1 to 9.0/100m stream length. The riparian vegetation was primarily 3-15cm dbh hardwood trees. Conifers and hardwoods were present in all size classes. There was not mentionable observation of non-native plants, such as English ivy or Japanese knotweed.

REACH DESCRIPTIONS:

Reach 1:(T20S-R03W-S35SW) Length 4824m. Reach 1 began at the mouth of Mosby Creek and extended to Champion Creek. The channel was constrained by terraces in a broad valley. The valley width index was 20. Rural residential and agriculture were the landuses. The streamside vegetation was deciduous trees 15-30cm dbh and shrubs. The average unit gradient was 0.7 percent. Sixty-seven percent of the reach was scour pools. Stream substrate was primarily a mix of gravel (24%), cobble (33%), and bedrock (21%). Wood volume was 1.4m³/100m. The trees found most frequently during riparian transects were 3-30cm dbh hardwoods and 15-30cm dbh conifers (based on 4 riparian transects).

Reach 2:(T21S-R02W-S07SW) Length 285m. Reach 2 was not surveyed. The reach extended 285 meters from Champion Creek.

Mosby Creek habitat survey stream report continued

Reach 3:(T21S-R02W-S07SW) Length 3471m. Reach 3 began at the end of the unsurveyed section and ended at the confluence of Perkins Creek. The channel was constrained by terraces in a broad valley. The average valley width index was 17.8 (range: 9.0-20.0). Rural residential and agriculture were the landuses. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.2 percent. The primary reach habitats were scour pool (57%) and riffle (20%). Stream substrates were mostly gravel (24%) and cobble (38%). Wood volume was 1.5m³/100m. The trees found most frequently during riparian transects were 3-15cm dbh hardwoods (based on 5 riparian transects).

Reach 4:(T21S-R02W-S19S) Length 1955m. Reach 4 began at Perkins Creek and extended to an unsurveyed portion. The channel was constrained by terraces in a broad valley. The average valley width index was 9.4 (range: 4.5-18.0). Rural residential was the landuse. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.4 percent. Fifty-six percent of the reach was scour pools. Stream substrate was primarily gravel (23%), cobble (34%), and bedrock (24%). Eighteen percent of the reach length had active erosion on its banks. Wood volume was 3.0m³/100m. The trees found most frequently in the riparian transects were 3-15cm dbh conifers (based on 2 riparian transects).

Reach 5:(T21S-R02W-S35SW) Length 505m. Reach 5 was not surveyed.

Reach 6:(T21S-R02W-S30SW) Length 402m. Reach 6 extended from the unsurveyed portion to the confluences of Kennedy and Smith Creeks. The channel was constrained by terraces in a broad valley. The average valley width index was 16.5 (range: 13.0-20.0). The landuse was rural residential. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.4 percent. Seventy-five percent of the habitat was scour pool. Stream substrate was dominated by gravel (30%) and cobble (35%). Twenty-six percent of the reach length had active erosion on its banks. Wood volume was 0.1m³/100m. The trees found most frequently in the riparian transects were 3-15cm dbh hardwoods and conifers (based on 2 riparian transects).

Reach 7:(T21S-R02W-S31NW) Length 973m. Reach 7 extended to the Weyerhaeuser property boundary. The channel was constrained by terraces in a broad valley. The valley width index was 7.0. Rural residential and second-growth timber were the landuses. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.3 percent. The stream habitat was scour pool (39%), riffle (27%), and rapid (34%). Stream substrate was mostly cobble (29%) and bedrock (28%). Sixteen percent of the reach length had active erosion on its banks. Wood volume was 0.7m³/100m. There was not a riparian transect conducted in this reach.

Reach 8:(T21S-R02W-S31SE) Length 854m. Reach 8 began at the Weyerhaeuser boundary and extended to Fall Creek. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 2.6 (range: 1.6-3.2). There were 191 meters of secondary channel habitat. The land use was second-growth timber. The streamside vegetation was conifers 30-50cm dbh and deciduous trees 15-30cm dbh. The average unit gradient was 0.8 percent. The majority of the stream habitat was riffle (30%) and scour pool (56%). Stream substrate was largely cobble (40%). Wood volume was 2.3m³/100m. The trees found most frequently in the riparian transect were 3-15cm dbh hardwoods. Conifers in the riparian zone ranged from 3-90+cm dbh; hardwoods ranged from 3-50cm dbh (based on 3 riparian transects).

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- Reach 9:(T21S-R02W-S32SW) Length 403m. Reach 9 extended 403 meters from Fall Creek. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 2.6 (range: 1.5-3.6). There were 166 meters of secondary channel habitat. The land use was second-growth timber. The streamside vegetation was mixed deciduous and conifer trees 50-90cm dbh and shrubs. The average unit gradient was 0.8 percent. The stream habitat was 40% scour pool and 24% riffle. Stream substrate was primarily cobble (32%) and bedrock (25%). Wood volume was 1.1m³/100m. No riparian transect data were collected for reach 9.
- Reach 10:(T22S-R02W-S05NE) Length 441m. Reach 10 encompassed a bedrock pinch-point. The channel was constrained by bedrock hillslopes in a steep, narrow valley. The average valley width index was 2.3 (range: 1.5-3.1). There were 118 meters of secondary channel habitat. The land use was second-growth timber. The streamside vegetation was shrubs and deciduous trees 15-30cm dbh. The average unit gradient was 0.7 percent. The stream habitat was 51 percent scour pool, including trench pool, and approximately 20 percent each of riffle and rapid habitats. Stream substrate was primarily a mix of sand (20%), boulder (24%), and bedrock (34%). Twenty percent of riffle substrate was sand. Wood volume was 0.2m³/100m. The trees found most frequently in the riparian transect were 3-50cm dbh hardwoods (based on 1 riparian transect).
- Reach 11:(T22S-R02W-S05NE) Length 3879m. Reach 11 extended to the confluence of Rock Creek. The reach channel alternated between hillslope-constrained and terrace-constrained, as evident from the valley width index (vwi) which ranged between 1.2 and 10.0. The reach was mostly terrace-constrained; 4.3 average vwi. There were 1199 meters of secondary channel habitat. Second-growth timber was the land use. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.9 percent. The stream habitat was mostly scour pools (39%), riffles (24%), and rapids (22%). Stream substrate was primarily cobble (32%), with a mix of fine sediments (17%), gravel (14%), boulder (18%), and bedrock (20%). Wood volume was 1.1m³/100m. The trees found most frequently in the riparian transect were 3-30cm dbh hardwoods and 3-50cm dbh conifers (based on 7 riparian transects). Named tributaries which entered the reach included Short, Blue, Simpson, Lewis, and Rock Creeks.
- Reach 12:(T22S-R02W-S09SW) Length 3584m. Reach 12 extended from Rock Creek to end at Cedar Creek. The channel was constrained by terraces in a broad valley. The average valley width index was 8.2 (range: 2.0-15.0). There were 1075 meters of secondary channel habitat. The land use was second-growth timber. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.5 percent. Scour pools (36%) and riffles (40%) were the primary stream habitats. Stream substrate was predominantly fine sediments (20%), gravel (25%), and cobble (35%). Wood volume was 2.3m³/100m. The trees found most frequently in the riparian transect were 3-15cm dbh hardwoods (based on 5 riparian transects). Conifers and hardwood trees were noted in all size classes (3-90+ cm dbh) in the riparian zone. Named tributaries which entered the reach included Cedar, Clearing, Cow, and Palmer Creeks.
- Reach 13:(T22S-R02W-S15SE) Length 2218m. Reach 13 ended at Stell Creek. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 9.3 (range: 7.0-11.0). Second-growth timber and timber harvest were the land uses. The streamside vegetation was mixed deciduous and conifer trees 15-30cm dbh and shrubs. The average unit gradient was 0.6 percent.

Mosby Creek habitat survey stream report continued

Reach 13 continued: Scour pools (52%) and riffles (30%) comprised much of the stream habitat. The stream substrate was mostly gravel (20%), cobble (26%), and bedrock (29%). Wood volume was 1.8m³/100m. The trees found most frequently in the riparian transect were 15-30cm dbh conifers (based on 3 riparian transects). Conifers 3-50cm dbh and hardwoods 3-30cm dbh were noted during the transects. Stell and Allen Creeks entered reach 13.

Reach 14:(T22S-R02W-S23SE) Length 1680m. Reach 14 extended to the confluence of Big Dry Creek. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 12.8 (range: 5.5-20.0). Second-growth timber and timber harvest were the landuses. The streamside vegetation was conifer 30-50cm dbh and deciduous trees 15-30cm dbh. The average unit gradient was 0.6 percent. Fifty-seven percent of the reach was scour pools. Stream substrate was primarily bedrock (44%). Wood volume was 3.0m³/100m. The trees found most frequently in the riparian transect were 15-30cm dbh conifers (based on 2 riparian transects). Conifers from 3-90cm dbh and hardwoods 3-50cm dbh were noted during the transects. Bark Shanty and Big Dry Creeks entered the reach.

Reach 15:(T22S-R02W-S26SE) Length 2081m. Reach 15 spanned the stream from Big Dry Creek to Little Dry Creek. The channel was constrained by terraces in a broad valley. The average valley width index was 13.1 (range: 9.0-20.0). The landuse was second-growth timber. The streamside vegetation was deciduous trees 15-30cm dbh and shrubs. The average unit gradient was 1.0 percent. The stream habitat was composed of scour pools (40%), riffles (31%), and rapids (22%). Stream substrate was a mix of fine sediments (22%), gravel (21%), cobble (26%), and bedrock (20%). Sixteen percent of riffle substrate was fine sediment. Wood volume was 1.1m³/100m. No riparian transect data were collected.

Reach 16:(T22S-R23W-S36W) Length 1662m. Reach 16 ended at Dahl Creek. The channel was constrained by terraces in a broad valley. The average valley width index was 11.5 (range: 10.5-13.0). Second-growth timber and timber harvest were the land uses. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.6 percent. The stream habitat was mostly composed of scour pools (35%) and riffles (40%). The stream substrate was mixed: fine sediments (19%), gravel (24%), cobble (24%), boulder (17%), and bedrock (16%). Twenty-one percent of the stream length had active erosion on its banks. Wood volume was 3.4m³/100m. The trees found most frequently in the riparian transects were 3-30cm dbh hardwoods (based on 2 riparian transects).

Reach 17:(T23S-R02W-S01NW) Length 1174m. Reach 17 began at Dahl Creek and ended at Norwegian Creek. The channel was constrained by terraces in a broad valley. The average valley width index was 8.5 (range: 7.0-9.5). The landuse was second-growth timber. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.6 percent. The reach had forty-six percent scour pools and twenty-nine percent rapids. Stream substrate was bedrock (36%), fine sediment (20%), cobble (17%), gravel (14%), and boulder (13%). Wood volume was 3.6m³/100m. The trees found most frequently in the riparian transect were 3-15cm dbh hardwoods (based on 1 riparian transect).

Reach 18:(T23S-R01W-S01SE) Length 2532m. Reach 18 extended to the Lilly Creek confluence. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 9.5 (range: 6.0-13.5). The landuse was second-growth timber. The streamside vegetation was deciduous and conifer trees

Mosby Creek habitat survey stream report continued

Reach 18 continued: 15-30cm dbh. The average unit gradient was 0.9 percent. Scour pools (44%) and rapids (33%) comprised the majority of the stream habitat. Stream substrate was a mix of fine sediment (19%), gravel (16%), cobble (21%), boulder (15%), and bedrock (29%). Twenty-eight percent of the riffle substrate was fine sediment. Wood volume was 1.2m³/100m. The trees found most frequently in the riparian transect were 3-15cm dbh hardwoods (based on 4 riparian transects). Conifers 3-50cm dbh and hardwoods 3-30cm dbh were noted in the riparian transect zone. Lilly, Shea, Gray, and Brownie Creeks contributed to the reach.

Reach 19:(T23S-R01W-S18NW) Length 1135m. Reach 19 began at Miles Creek and ended upstream of Tom Creek. The channel was constrained by multiple terraces and hillslopes in a broad valley. The average valley width index was 8.3 (range: 7.0-10.0). There were 875 meters of secondary channel habitat. Second-growth timber was the landuse. The streamside vegetation was deciduous and conifer trees 15-30cm dbh. The average unit gradient was 0.6 percent. The stream habitat was composed of scour pools (34%), riffles (38%), and rapids (24%). Stream substrate was primarily fine sediment (22%), gravel (26%), and cobble (24%). Fine sediment composed twenty-six percent of the substrate in riffle units. Twenty-seven percent of the reach length had active erosion on its banks. Fine sediment comprised twenty-six percent of riffle substrate. Wood volume was 9.5m³/100m. The trees found most frequently in the riparian zone were 3-50cm dbh hardwoods (based on 2 riparian transects). Miles, Tones, and Tom Creeks entered the reach.

Reach 20:(T23S-R01W-S18SW) Length 1699m. Reach 20 extended to the confluence of the West Fork Mosby Creek and Cove Creek. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 6.1 (range: 4.8-9.0). There were 565 meters of secondary channel habitat. Second-growth timber was the landuse. The streamside vegetation was deciduous trees 30-50cm dbh and grass. The average unit gradient was 1.5 percent. Scour pools (40%) and rapids (42%) were the primary stream habitats. Stream substrate was primarily fine sediment (28%), cobble (24%), and boulder (22%). Fine sediment composed twenty-seven percent of riffle substrate. Nineteen percent of the reach length had active erosion on its banks. Wood volume was 3.2m³/100m. The trees found most frequently in the riparian transect were 3-30cm dbh hardwoods (based on 2 riparian transects).

Reach 21:(T23S-R01W-S30NW) Length 1037m. Reach 21 ended at the confluence of the Middle and East Forks of Mosby Creek. The channel was constrained by alternating hillslopes and terraces in a broad valley. The average valley width index was 5.9 (range: 4.0-9.2). Second-growth timber and timber harvest were the landuses. The streamside vegetation was deciduous trees 30-50cm dbh. The average unit gradient was 2.0 percent. Rapid (75%) was the dominant habitat. Stream substrate was primarily gravel (21%), cobble (27%), and boulder (36%). Thirty-two percent of the reach length had active erosion on its banks. Wood volume was 0.6m³/100m. The trees found most frequently in the riparian transect were 15-30cm dbh hardwoods and conifers (based on 1 riparian transect).

Mosby Creek habitat survey stream report continued

COMMENTS:

Beaver activity was noted in reaches 1, 11, 12, 13, 18, and 19, and it was primarily beaver-chewed sticks.

Wildlife signs and observations included northern pike minnow, sucker, deer tracks, crayfish, kingfisher, bull frog, great blue heron, otter scat, sculpin, dace, trout, unknown frog, rough skin newt, dipper, elk tracks, Pacific giant salamander, and adult steelhead.

The crew observed adult steelhead at unit 591 (21,620m), unit 833 (29,180m), and unit 1038 (34,548m).

One potential barrier to fish movement was recorded at unit 591 (21,620m). It may be a low-flow barrier as trout and steelhead were noted upstream.

Many pool depths were estimated and may be deeper than recorded. They were difficult to accurately survey.

Screened diversions were noted in reaches 1 and 3.

A rock quarry and a pond, perhaps for floating logs, were in reach 11.

Named tributaries which entered the habitat survey extent were the following: Perkins, Kennedy, Smith, Short, Blue, Simpson, Lewis, Rock, Palmer, Clearing, Cedar, Allen, Stell, Bark Shanty, Big Dry, Little Dry, Dahl, Norwegian, Gray, Shea, Brownie, Lilly, Miles, West Fork Mosby, and Cove Creeks.

The crew gauged the quantity of bedrock when present within the active channel and recorded the percent (BR %) in the note column. What follows is a summary of the range of bedrock present in each reach:

Reach 1 – ranged 5 – 100%, when bedrock was present.	
Reach 2 – not surveyed	Reach 3 – 5 – 90%
Reach 4 – 5 – 95%	Reach 5 – not surveyed
Reach 6 – 5%	Reach 7 – 5 – 100%
Reach 8 – 5 – 85%	Reach 9 – 10 – 50%
Reach 10 – 10 – 90%	Reach 11 – 10 – 100%
Reach 12 – 1 – 65%	Reach 13 – 5 – 95%
Reach 14 – 5 – 85%	Reach 15 – 5 – 95%
Reach 16 – 5 – 90%	Reach 17 – 5 – 90%
Reach 18 – 5 – 95%	Reach 19 – 5 – 70%
Reach 20 – 5 – 60%	Reach 21 – 5 – 50%

The Mosby Creek habitat survey began at its confluence with the Row River and extended approximately 37 kilometers to the junction of East Fork and Middle Fork Mosby Creeks. Mosby Creek was constrained by many factors: the adjacent road system, adjacent high terraces, and various landuses. Mosby Creek Road followed Mosby Creek to the survey end. Blue Mountain Road impinged Mosby Creek on the other side from approximately reach 3 to reach 6, a distance more than 6 kilometers. Private residential landownership along Mosby Creek extended from the mouth to the Weyerhaeuser property boundary. There were approximately 11.6 kilometers of primary channel length and 1 kilometer of secondary channel length within this section. The Weyerhaeuser property extended over 24 kilometers and had approximately 6.7 kilometers of secondary channel habitat. Secondary channel habitat was prominent in reaches 8 to 12 and in reaches 19 and 20, accounting for approximately 4 kilometers of secondary channel length. When present, off-channel habitat provides protective habitat and feeding opportunities and velocity refuge for smaller fishes. Overall, Mosby Creek had low gradient (0.4-0.8 percent), was constrained by many features, had low habitat complexity, and a tendency toward channel simplification.

Instream wood serves many functions in a stream channel. The wood helps to scour deep pools, provide nutrients, trap sediment, and provide cover from predators. At higher flows, wood can act as an obstacle to cut new channels, scour new pools, and create undercut banks. The amount of wood in Mosby Creek remained relatively constant. The number of pieces, volume, and key pieces of large wood counted on the lower reaches (1.76, 1.34, and 0.04 per 100 meter stream length, respectively) varied little from that counted on Weyerhaeuser land (2.11, 2.46, and 0.6 per 100 meter stream length, respectively). These very low quantities of wood reflect that there is either a lack of large wood recruitment or that it isn't staying in the watershed.

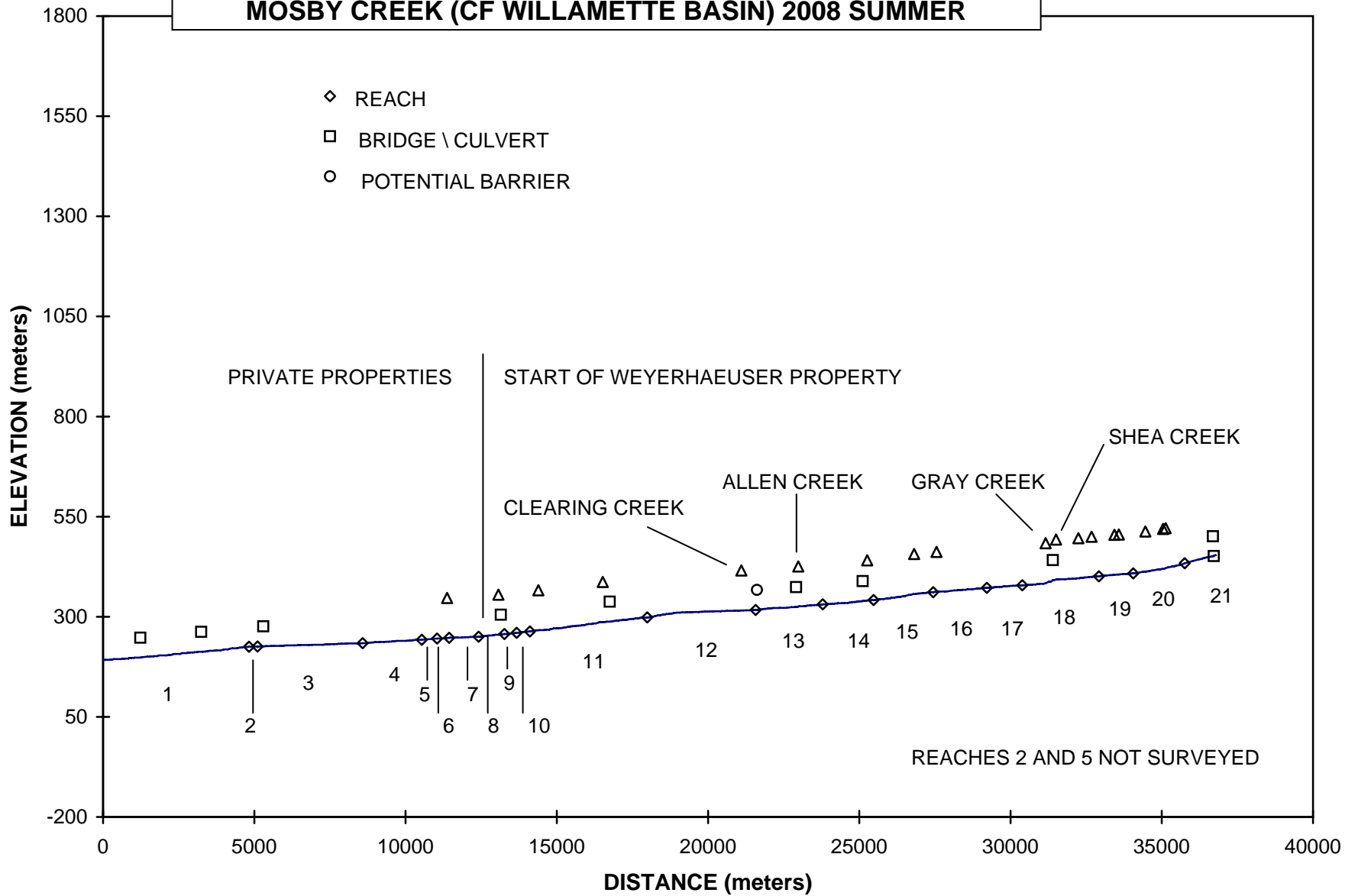
The riparian zone is an ecological transition between the aquatic and upland habitats. Riparian vegetation and trees stabilize the bank, are a recruitment source of large wood, buffer against flood impacts, and provide shade. Stabilized stream banks are less likely to contribute fine sediments and more likely to develop undercut banks, which serve as important cover for fish. There was good canopy cover (shade) throughout the survey, averaging 65-70 percent. Overall, the composition of the Mosby Creek riparian vegetation was a mix of hardwood and conifer trees 15-30cm diameter at breast height (dbh). Riparian transects were conducted at regular intervals and a range of tree size classes was observed. These included conifer and hardwood trees greater than 30cm dbh, and occasionally some greater than 90cm dbh. Mature trees (50-90cm dbh) were seen in all three zones of the riparian transects, though generally in very low numbers (64 conifers >50cm and 15 conifers >88cm dbh). This is a limiting factor for recruitment of large wood into the channel. There was not mentionable observation of non-native plants, such as English ivy, Himalayan blackberry, or Japanese knotweed.

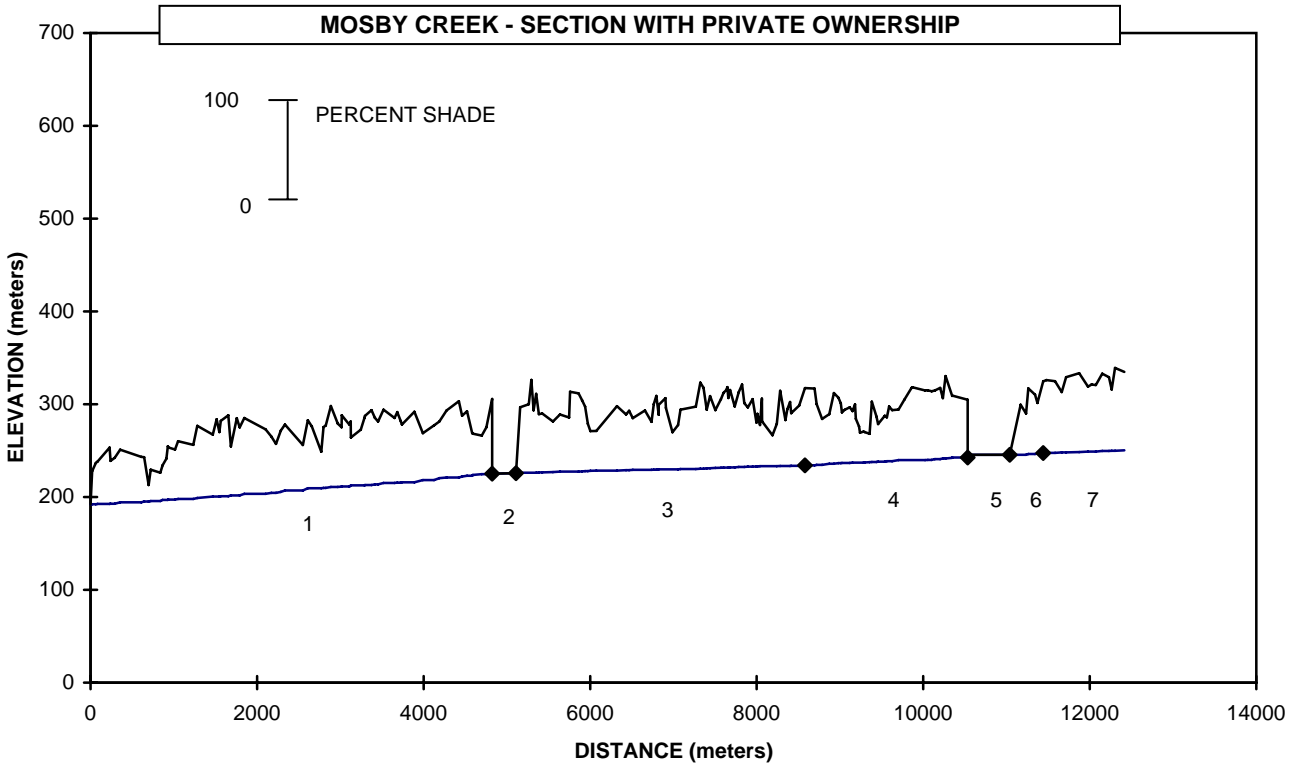
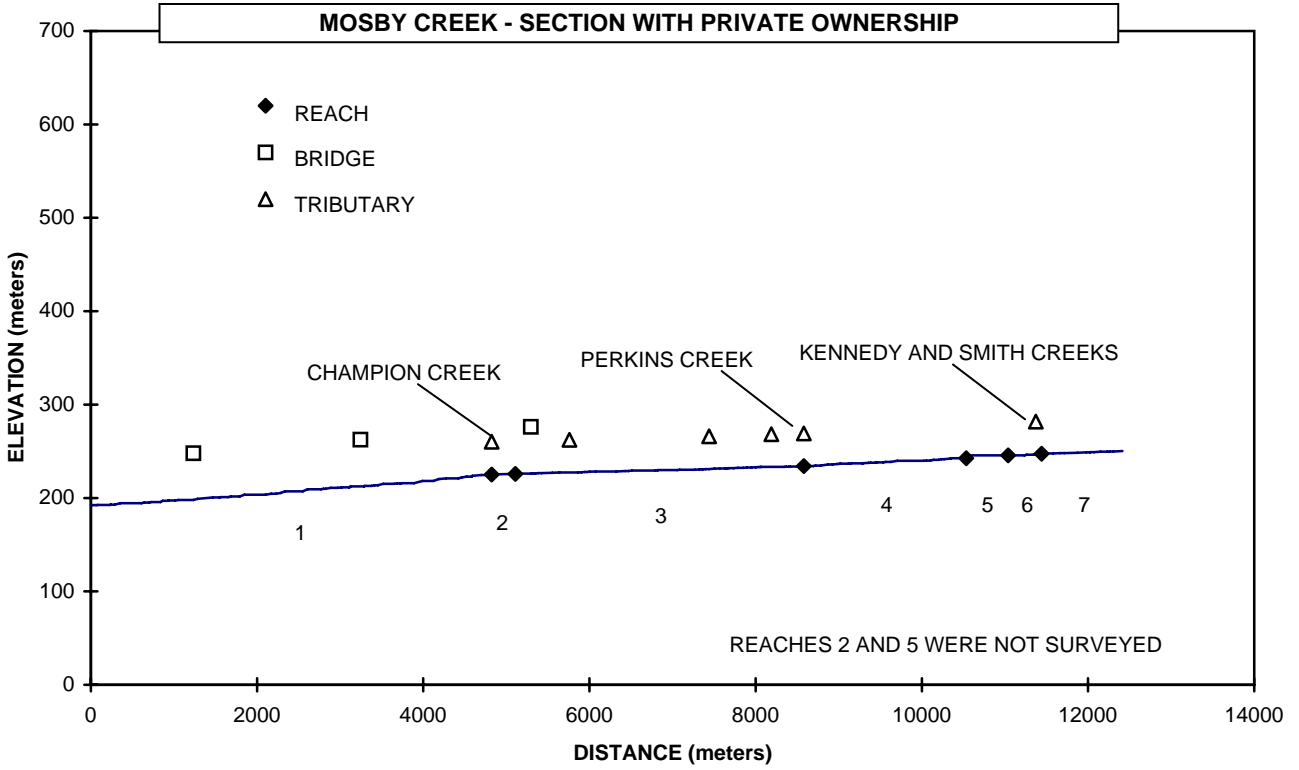
Scour pool was the most prominent habitat in Mosby Creek. It accounted for 60 percent of wetted area of habitat on residential land and 42 percent of habitat on Weyerhaeuser property. Deep pools (greater than or equal to 1 meter deep), provide temperature refugia and year-round cover. The frequency of pools was similar between ownerships, with approximately 9 pools per kilometer and 4 deep pools per kilometer. The number of complex pools per kilometer (deep pools with >3 pieces) was low, as there weren't many pieces of wood contributing to pool habitat. Beaver activity was noted throughout the survey, mainly in the form of beaver-chewed sticks. Beaver ponds were few. Slack water habitat includes backwater pools, dammed pools, and beaver ponds and accounted for 2.8 percent of the wetted area.

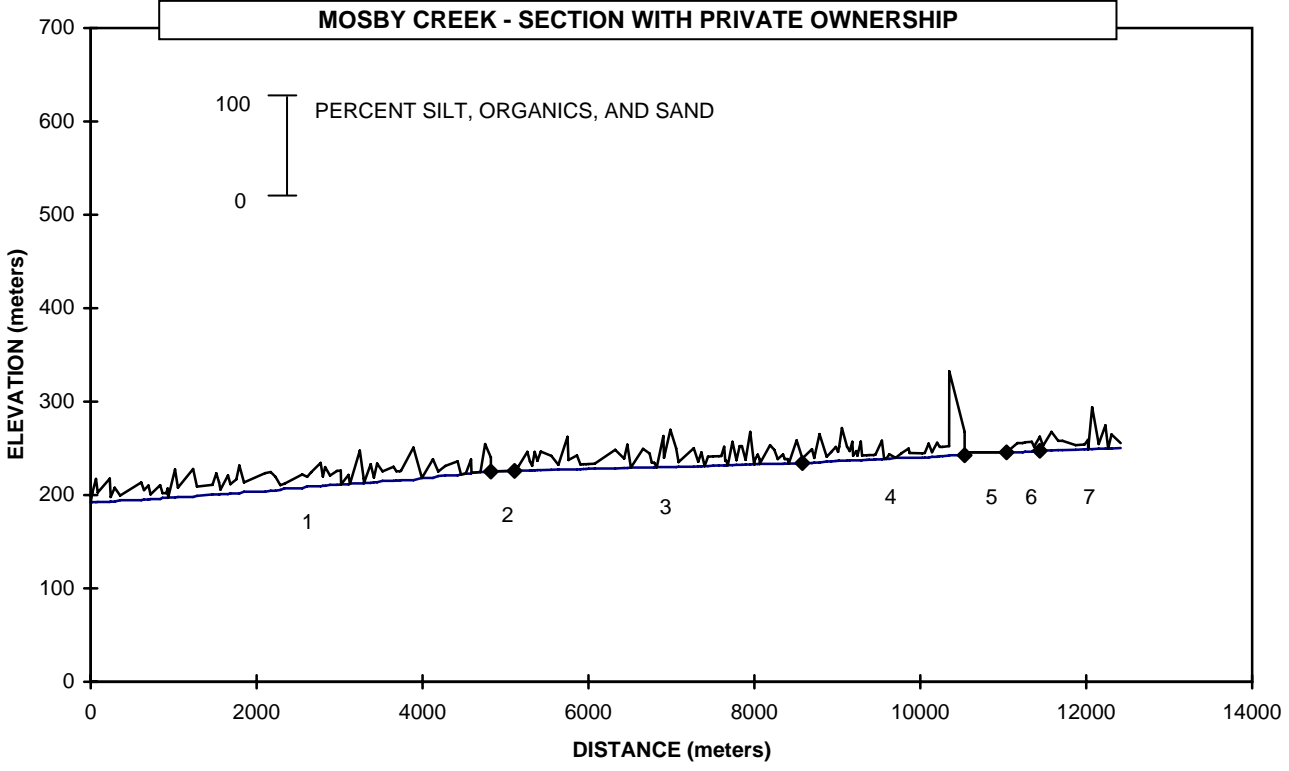
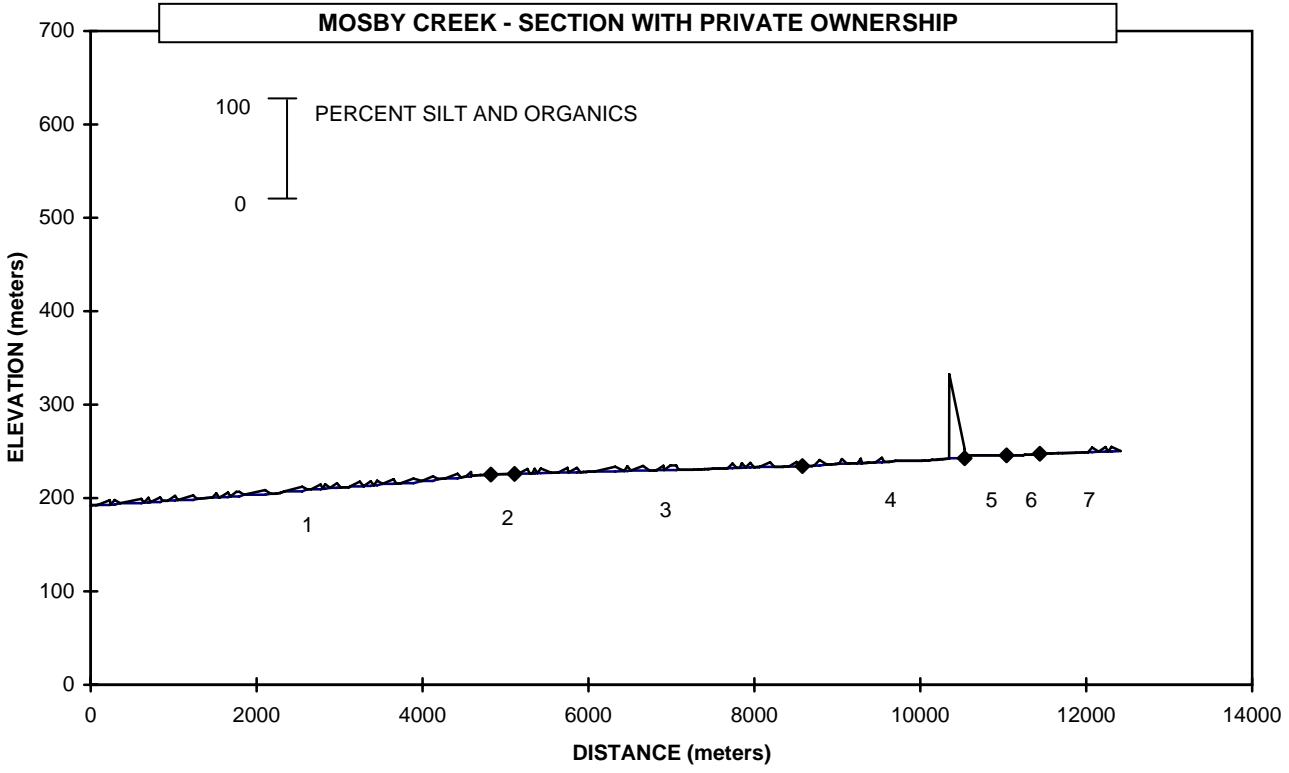
Restoration is a technique and process used in an attempt to improve stream habitat in the short term as well as achieve long-term recovery goals. The Mosby Creek residential and private industrial landowners have a suite of restoration techniques available to them. Potential projects could focus on improving summer and winter rearing habitat for juvenile salmonids, improving spawning habitat, increasing nutrients in the stream, reducing sedimentation and bank erosion, and protecting native streamside vegetation. Planting native

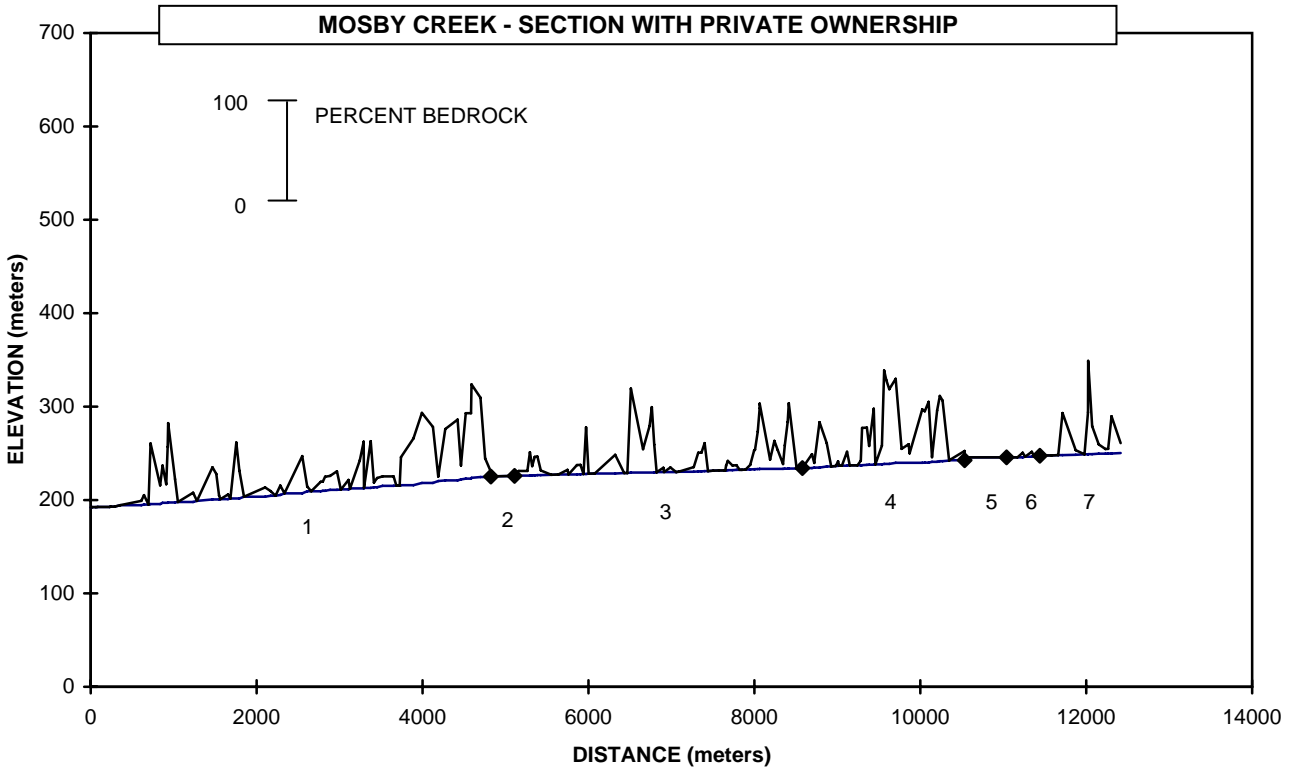
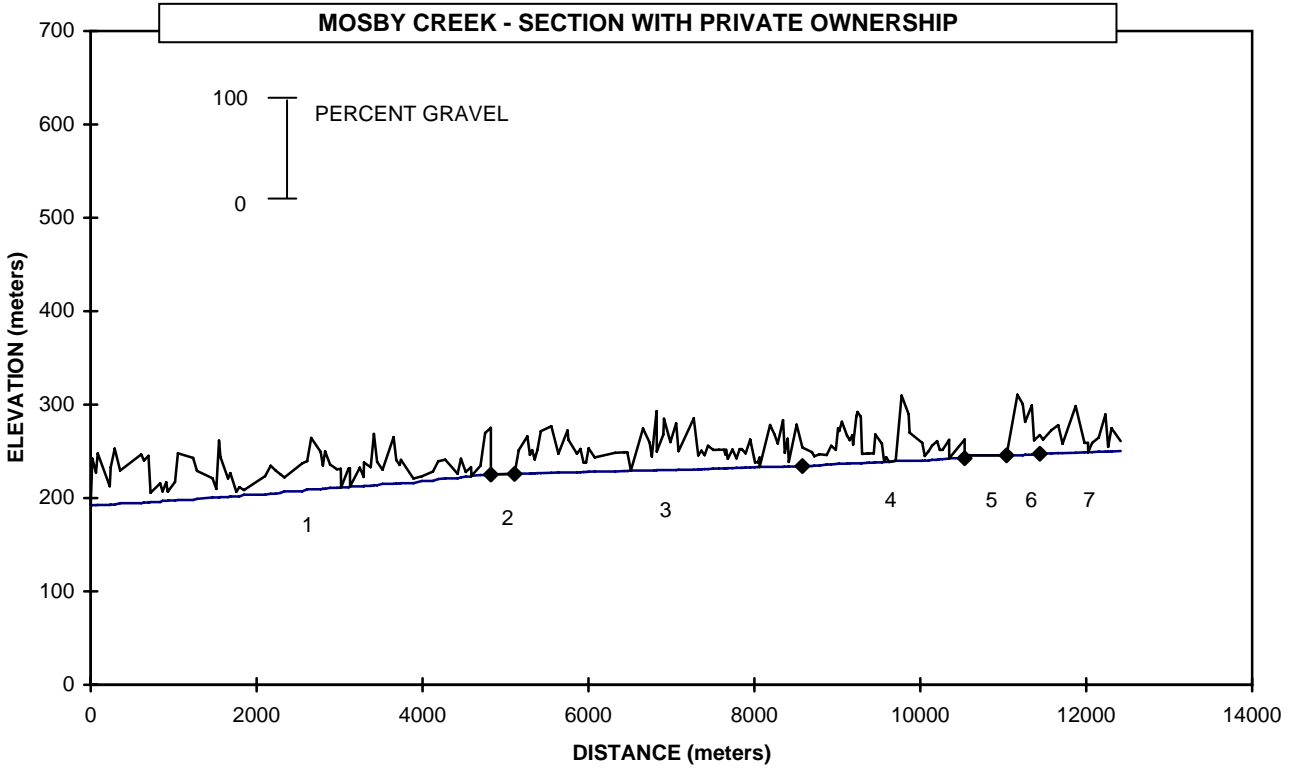
flora, which enhance wildlife habitat, is a natural step for any landowner. Maintaining a healthy stream environment (screened water diversions and a lack of streamside pollutants) and riparian zone with suitable vegetation are two steps residential landowners can take. Likewise, Weyerhaeuser can embark on larger, more-focused projects, including habitat structure and carcass placements. Carefully placed habitat structures slow water flow, aggregate and build substrate, create secondary channels, and increase habitat complexity. Continuation of the hatchery carcass placement program will supplement nutrients in Mosby Creek. This effort focuses on returning the nutrients that spawned and dying salmonids once provided. These efforts will benefit the resident species such as cutthroat trout, sculpin, northern pike minnow, lamprey, as well as improve habitat for anadromous salmonids. Beneficial physical response from restoration projects may take several high flow events; biological response could take longer.

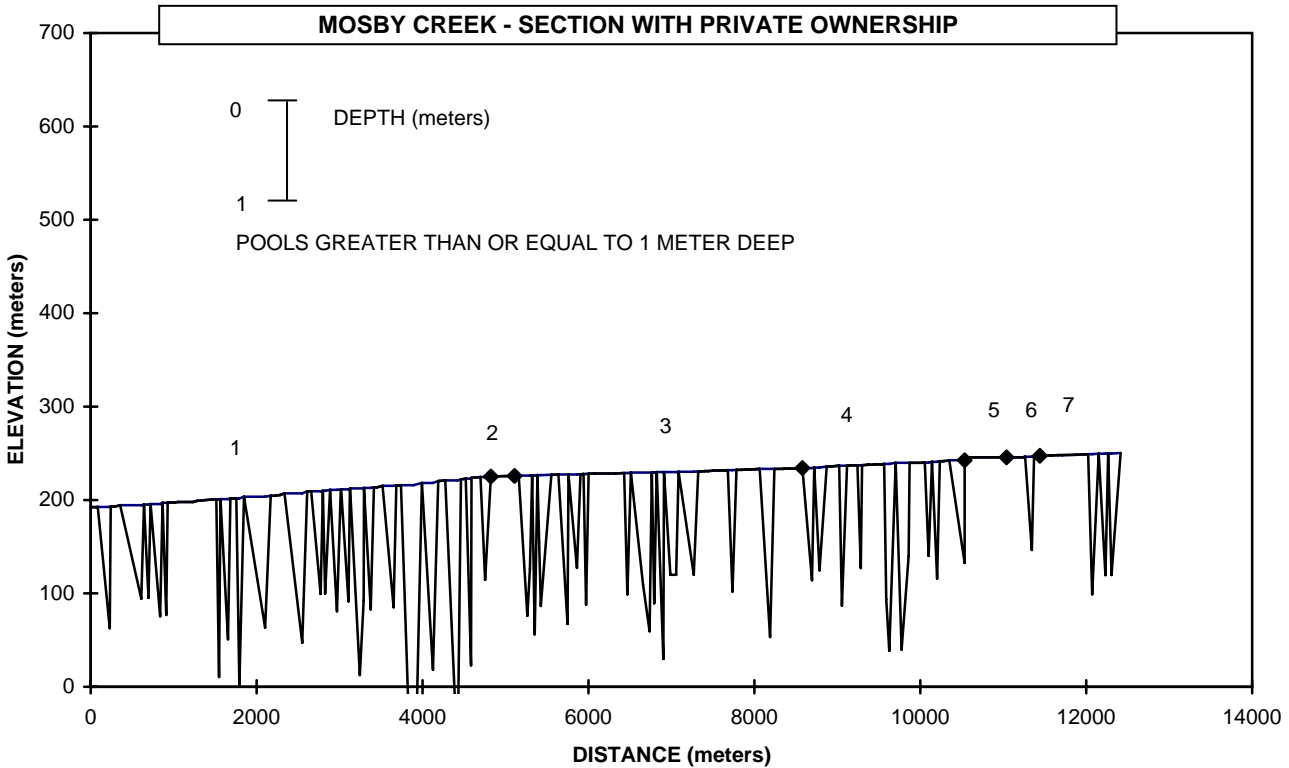
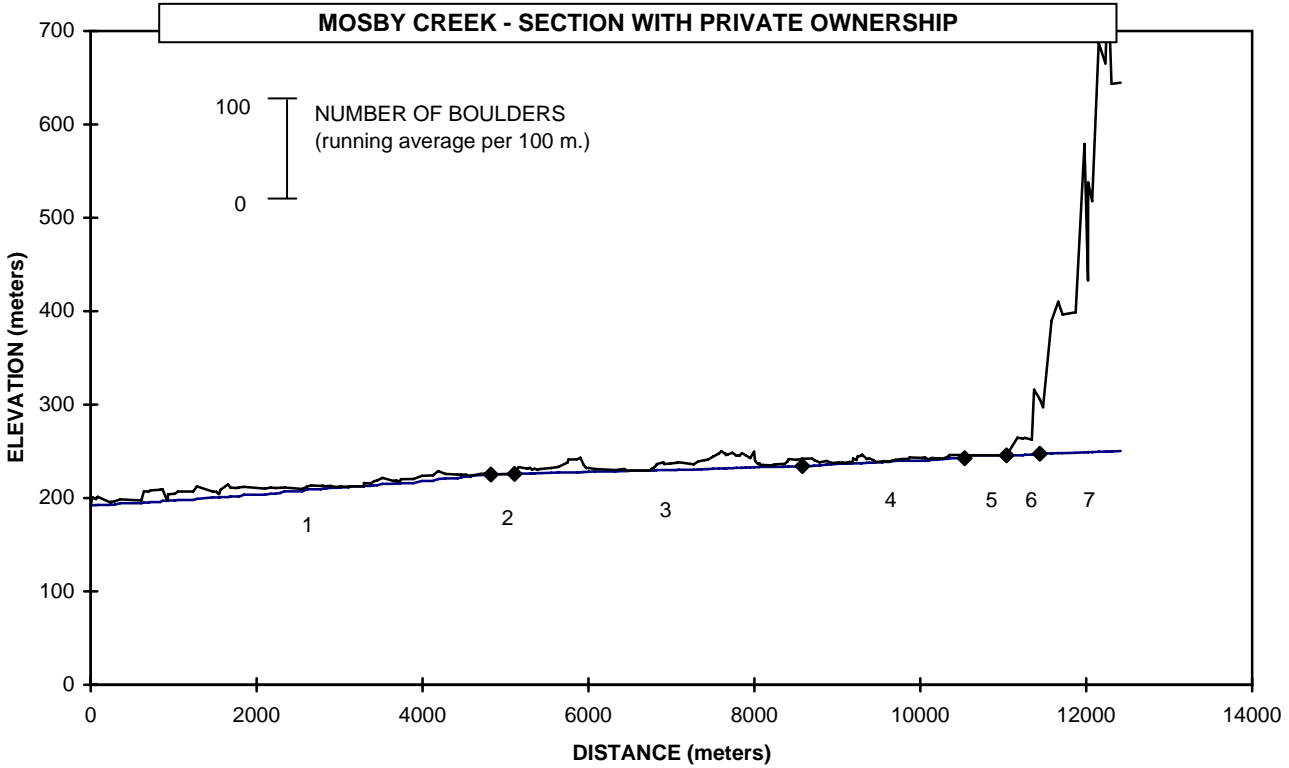
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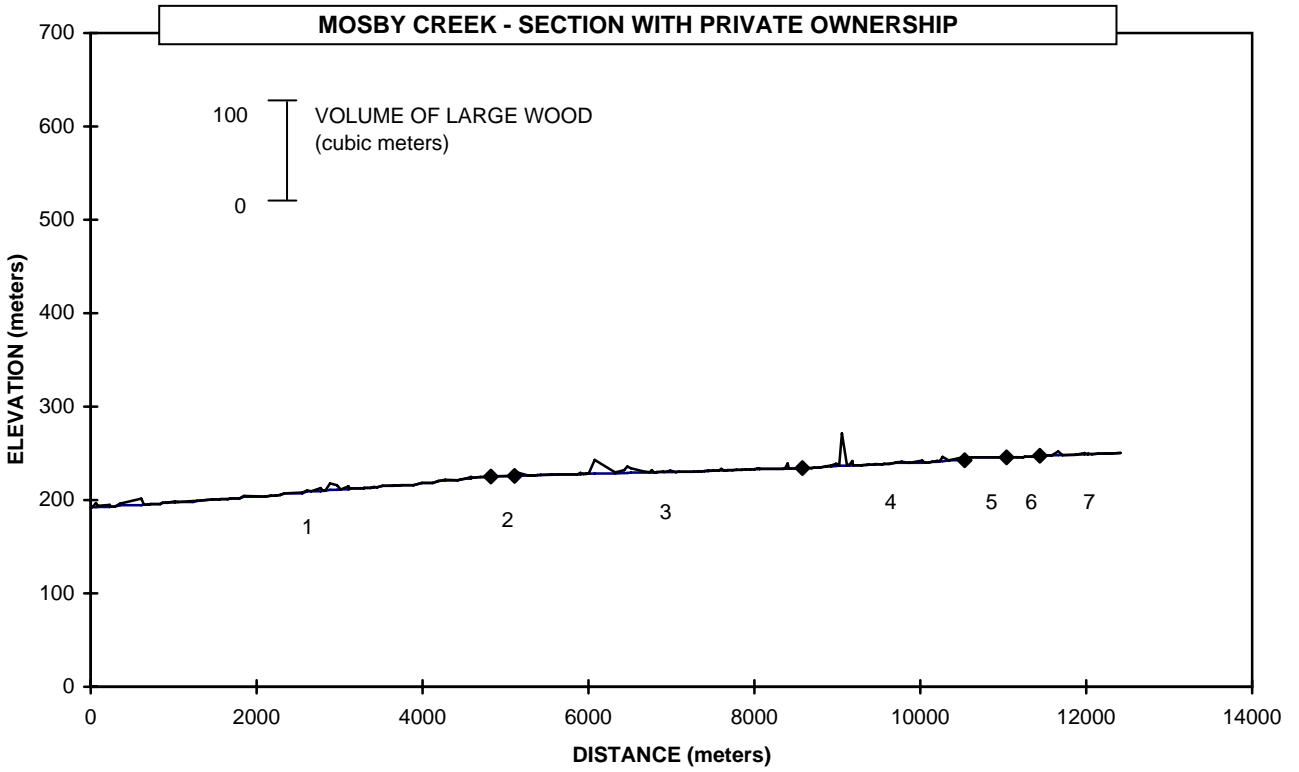
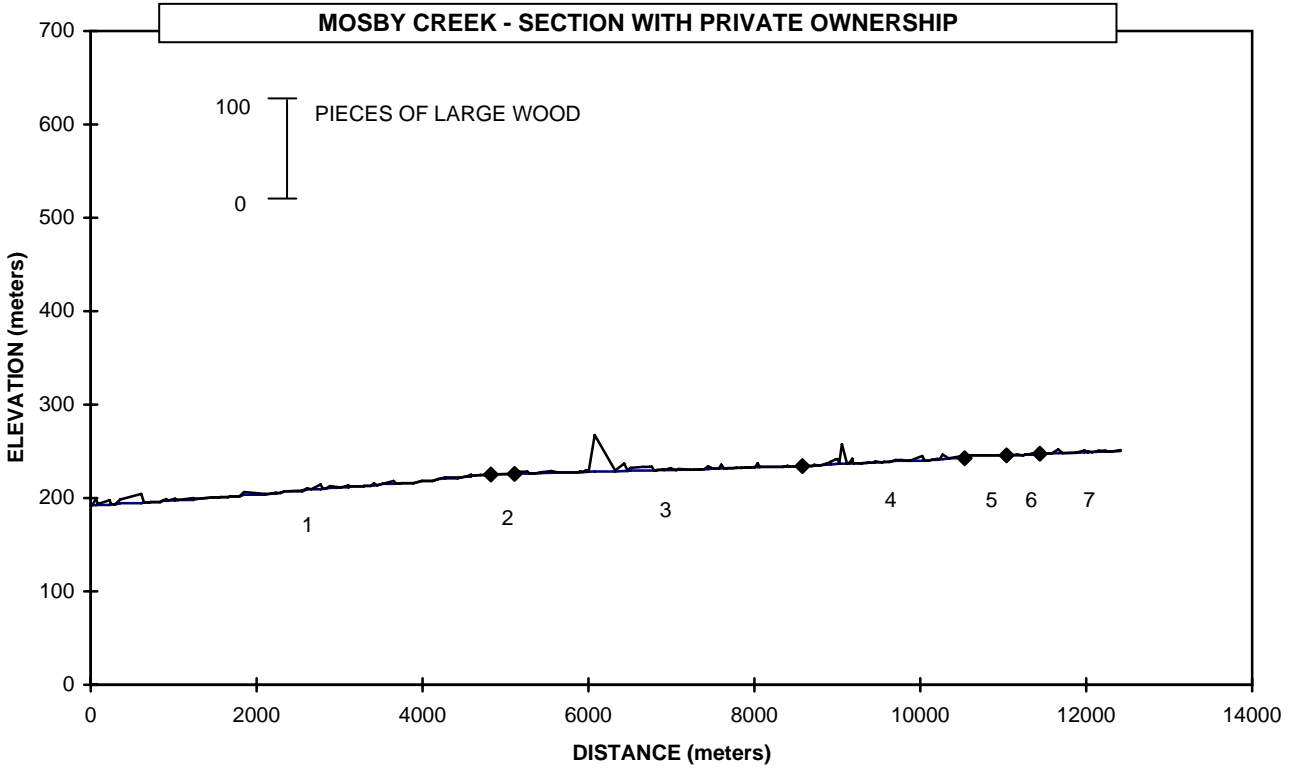


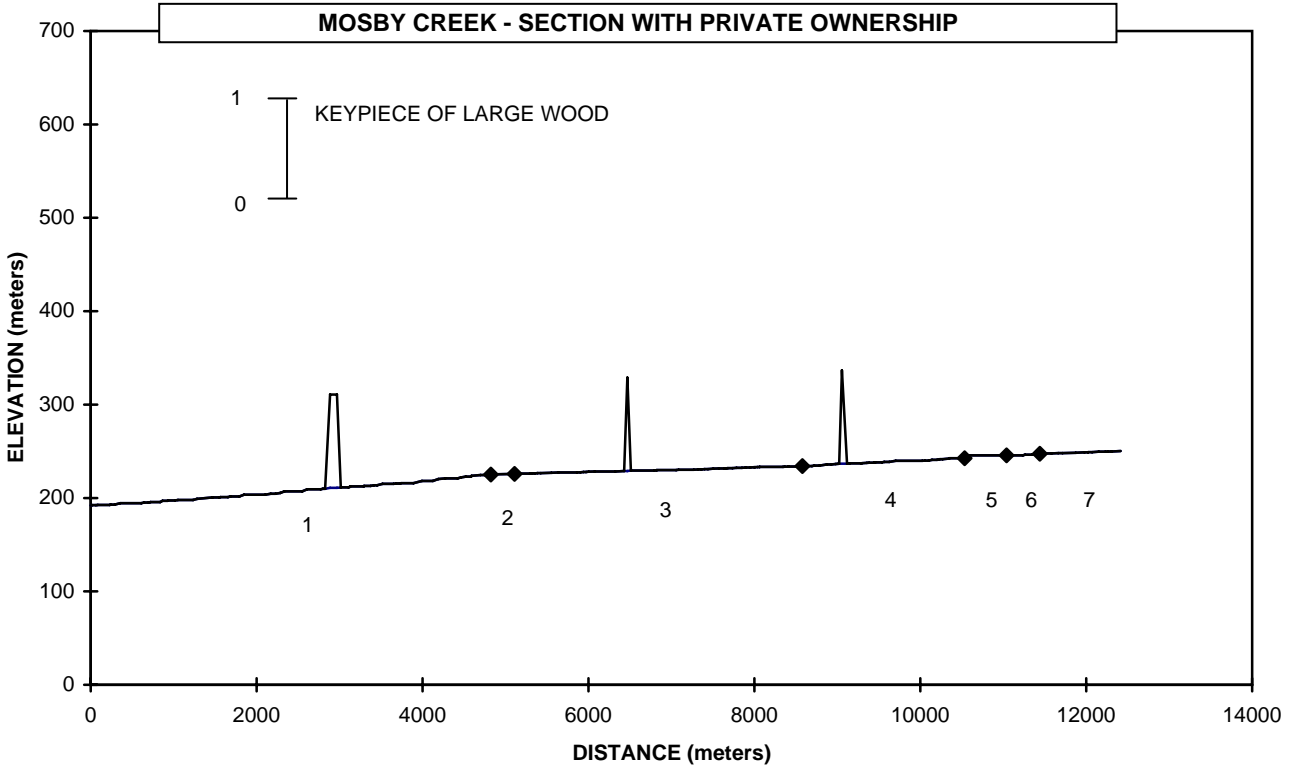


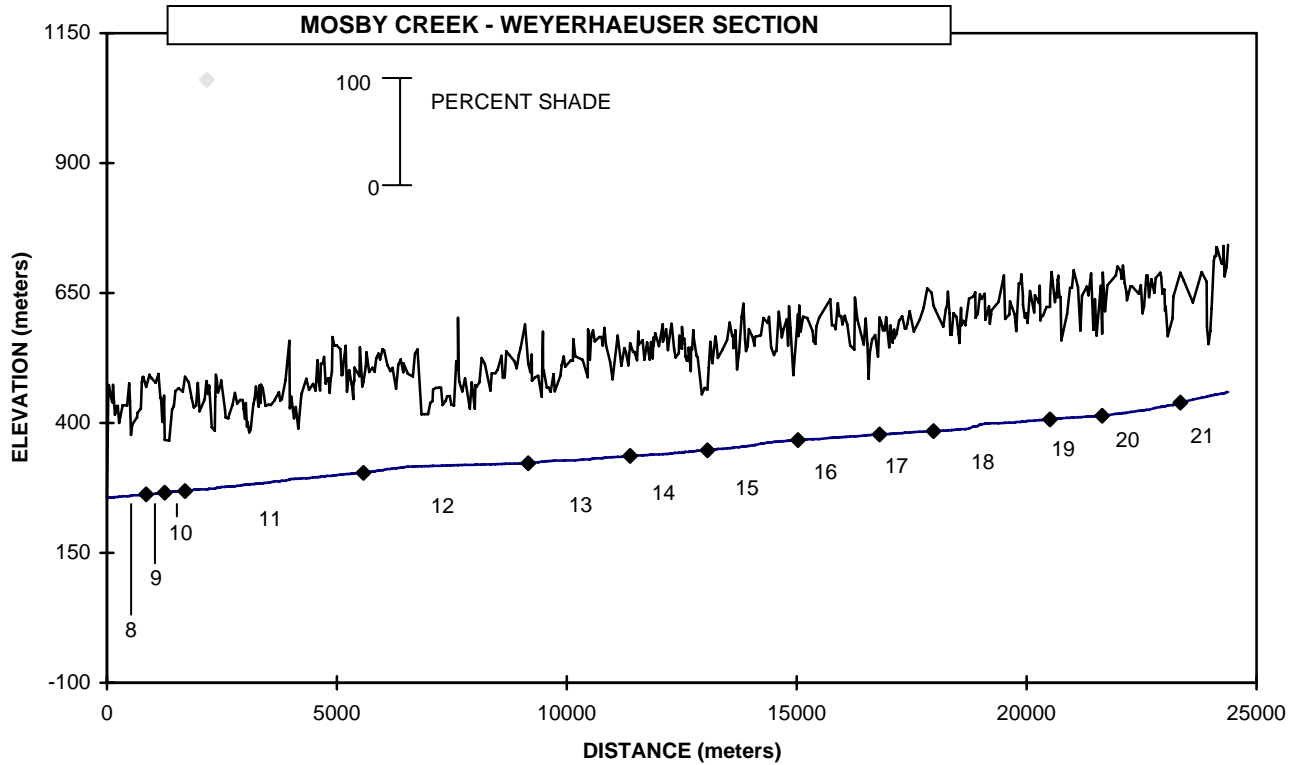
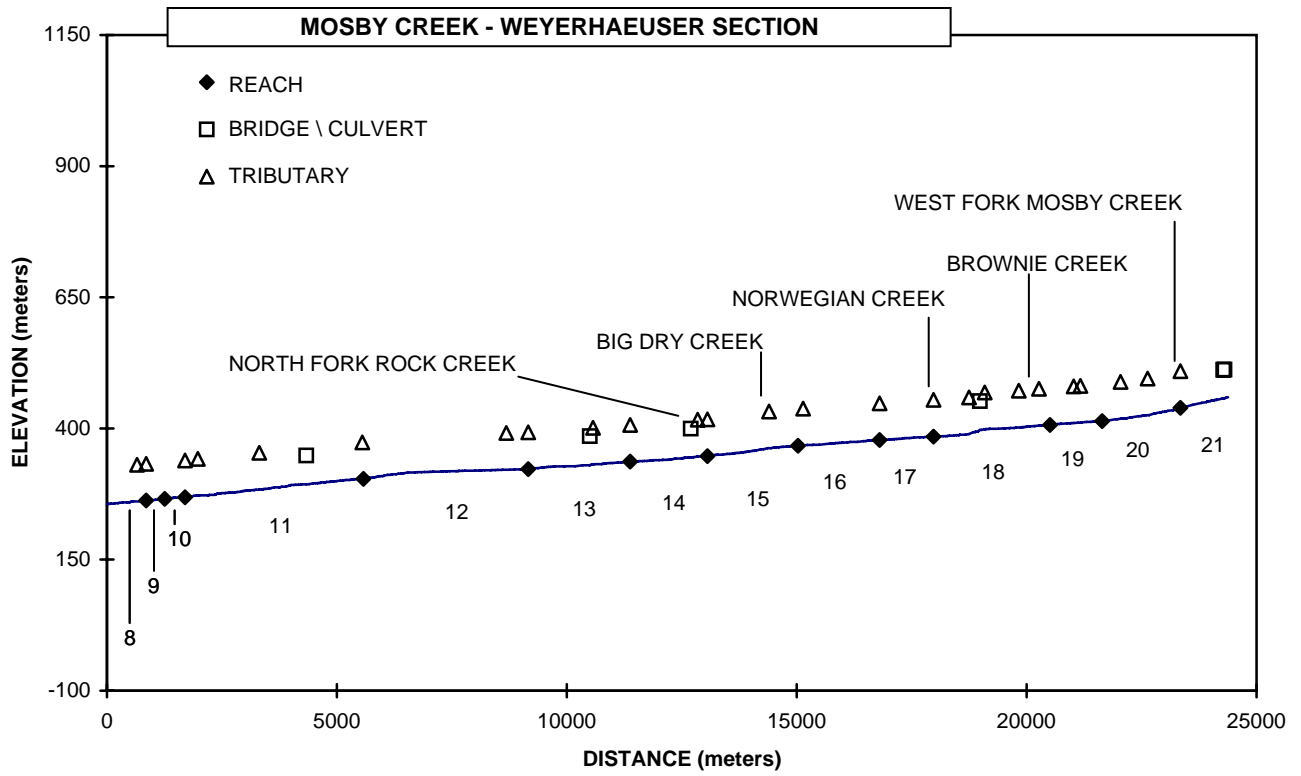


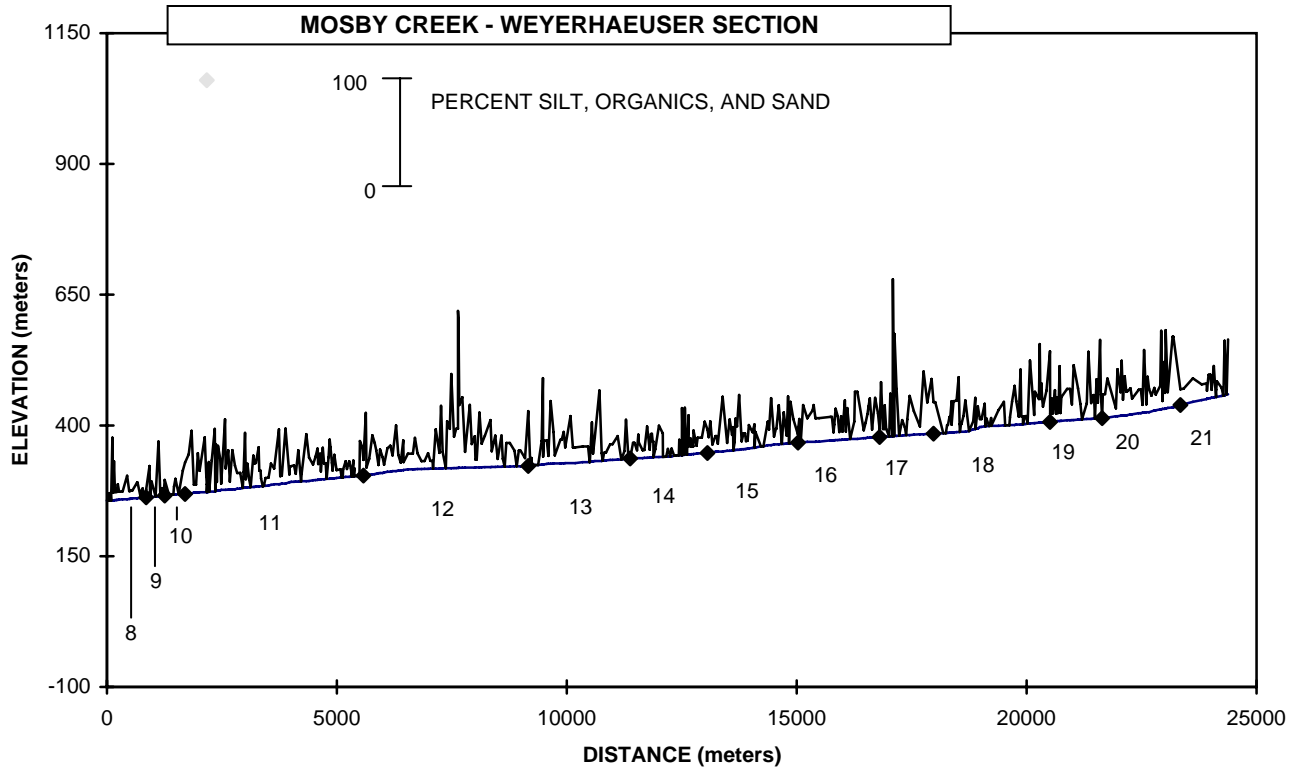
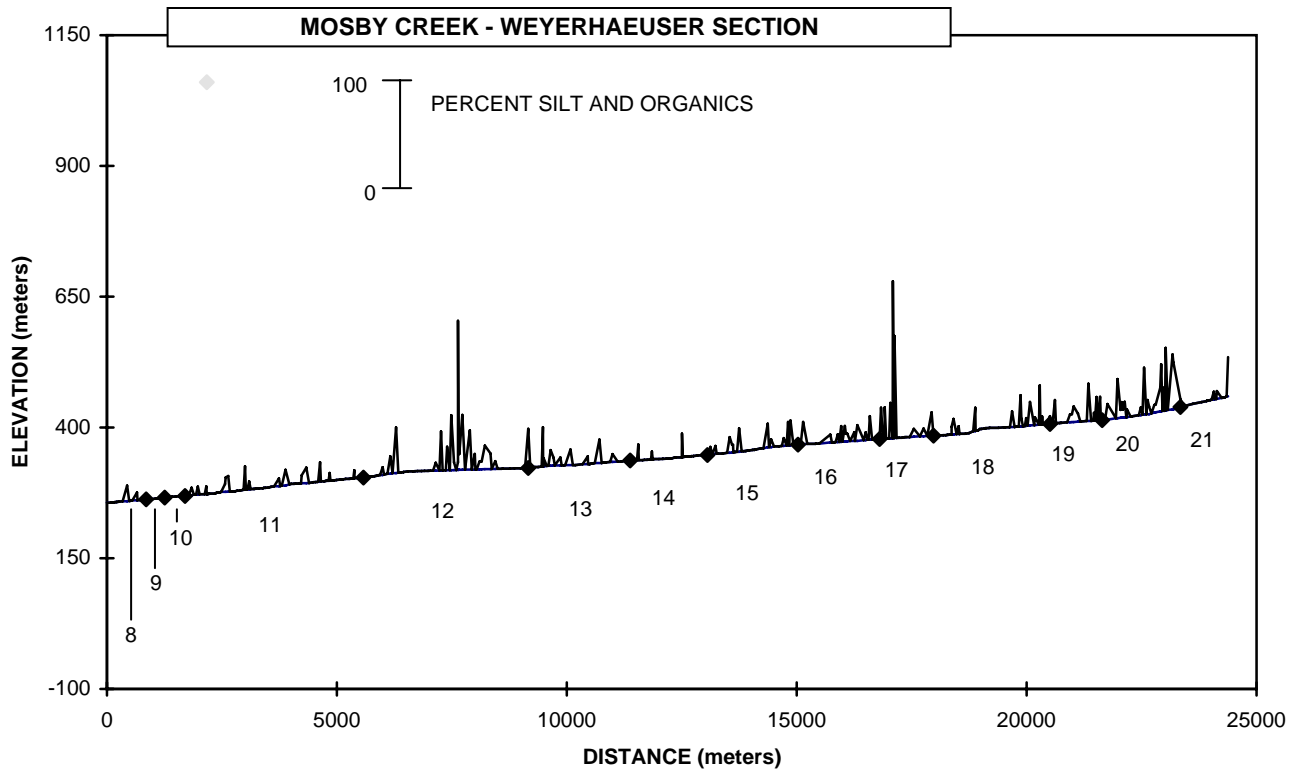


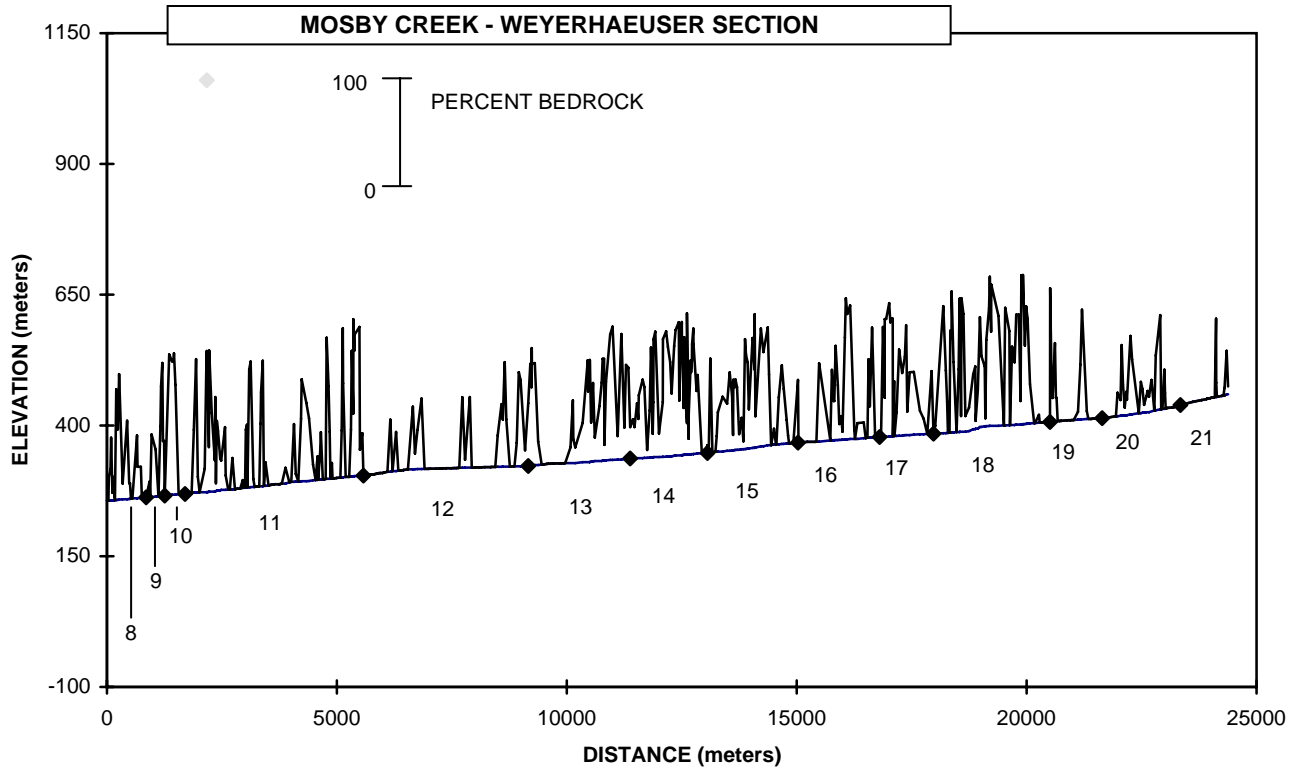
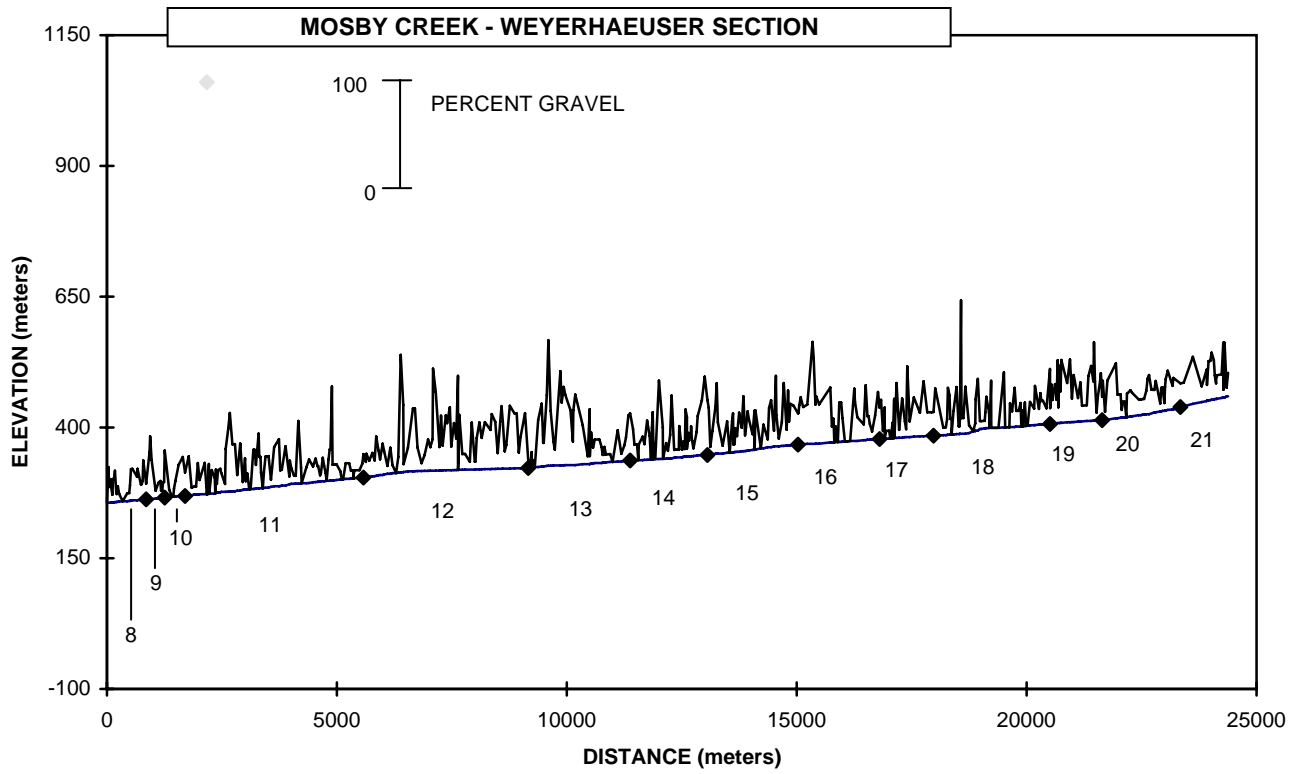


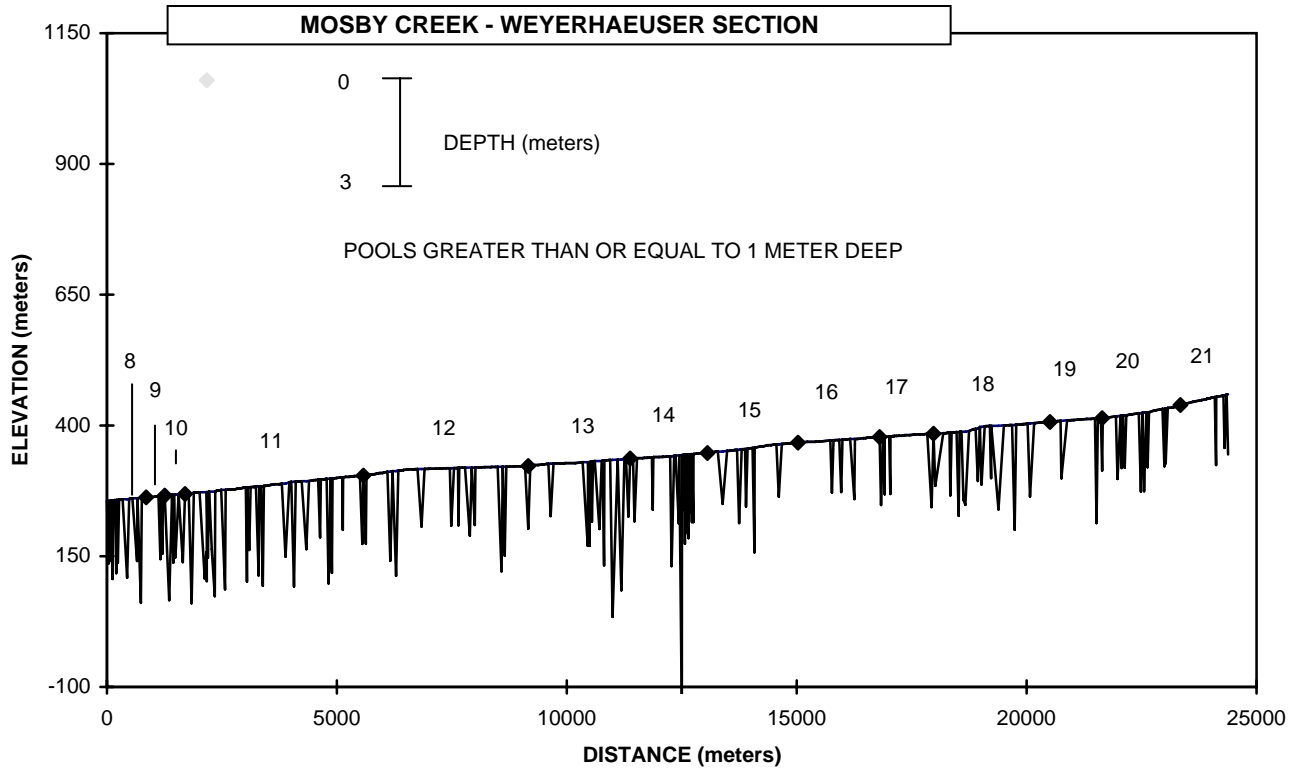
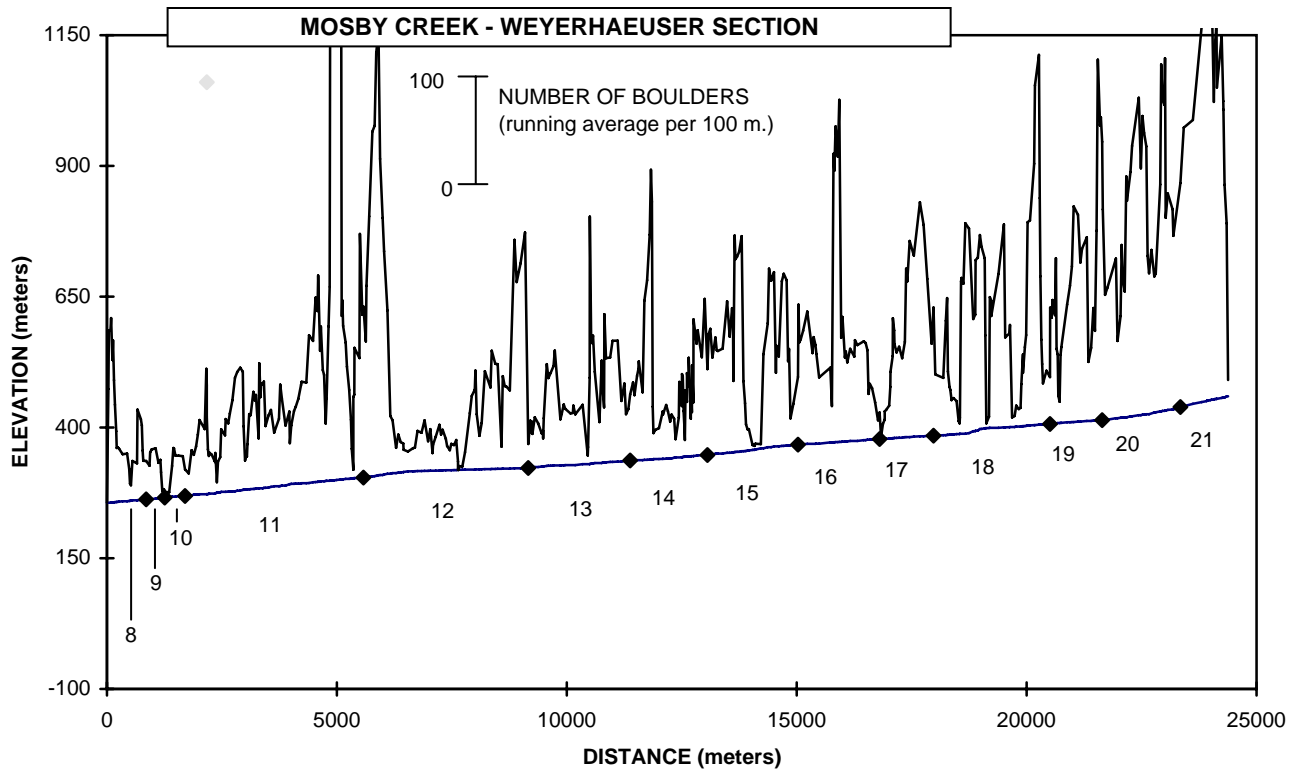


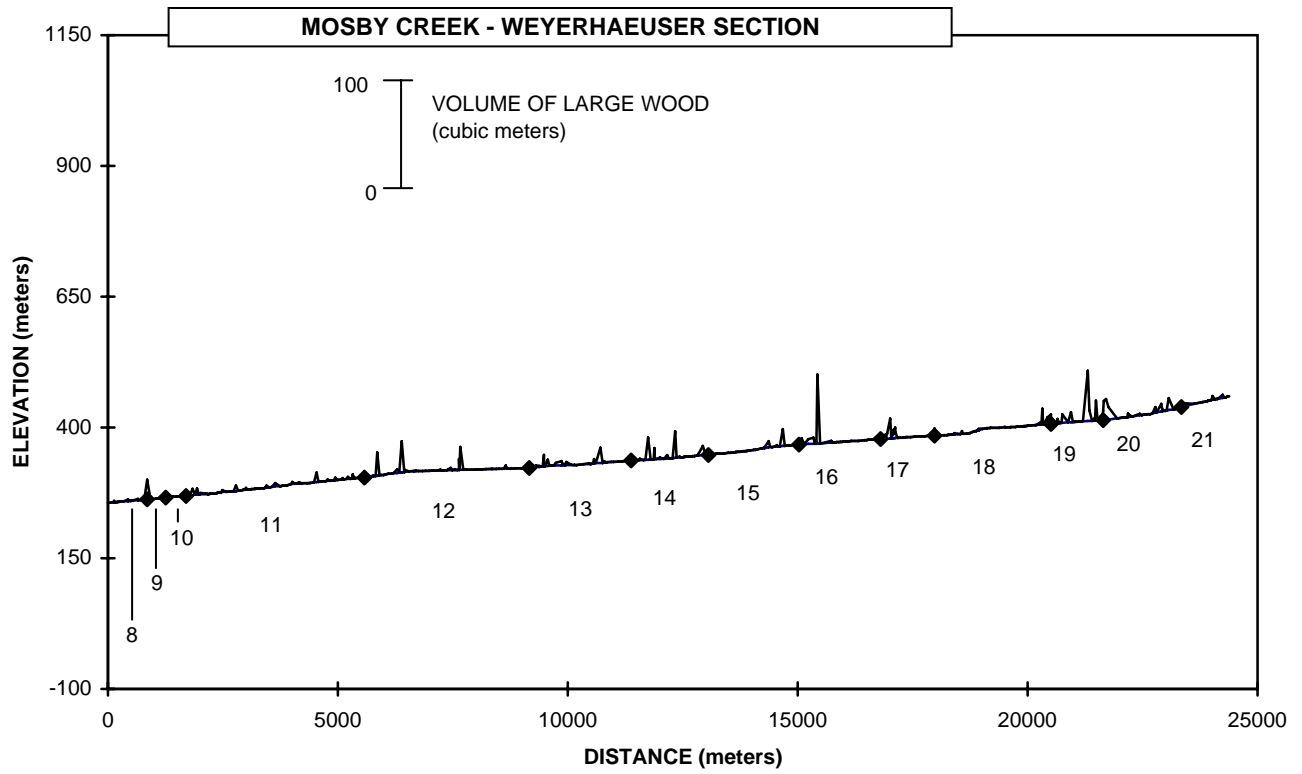
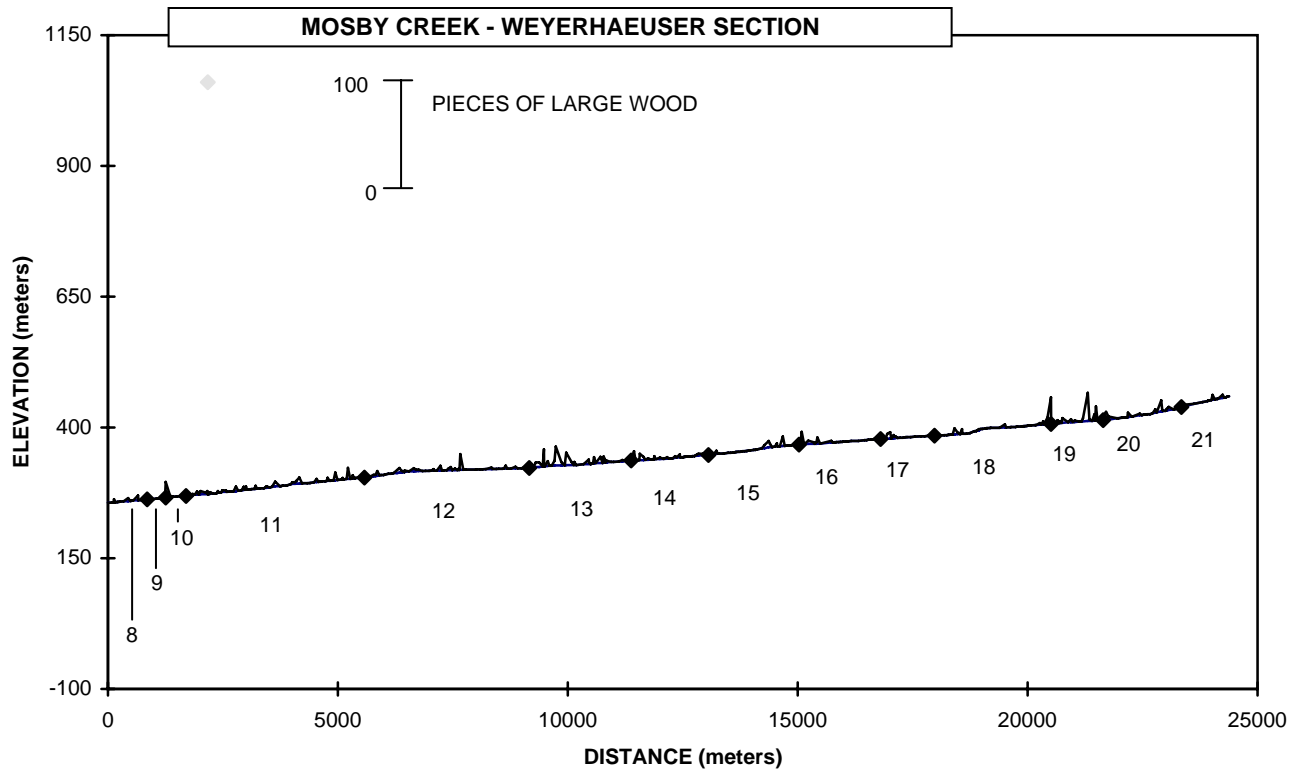


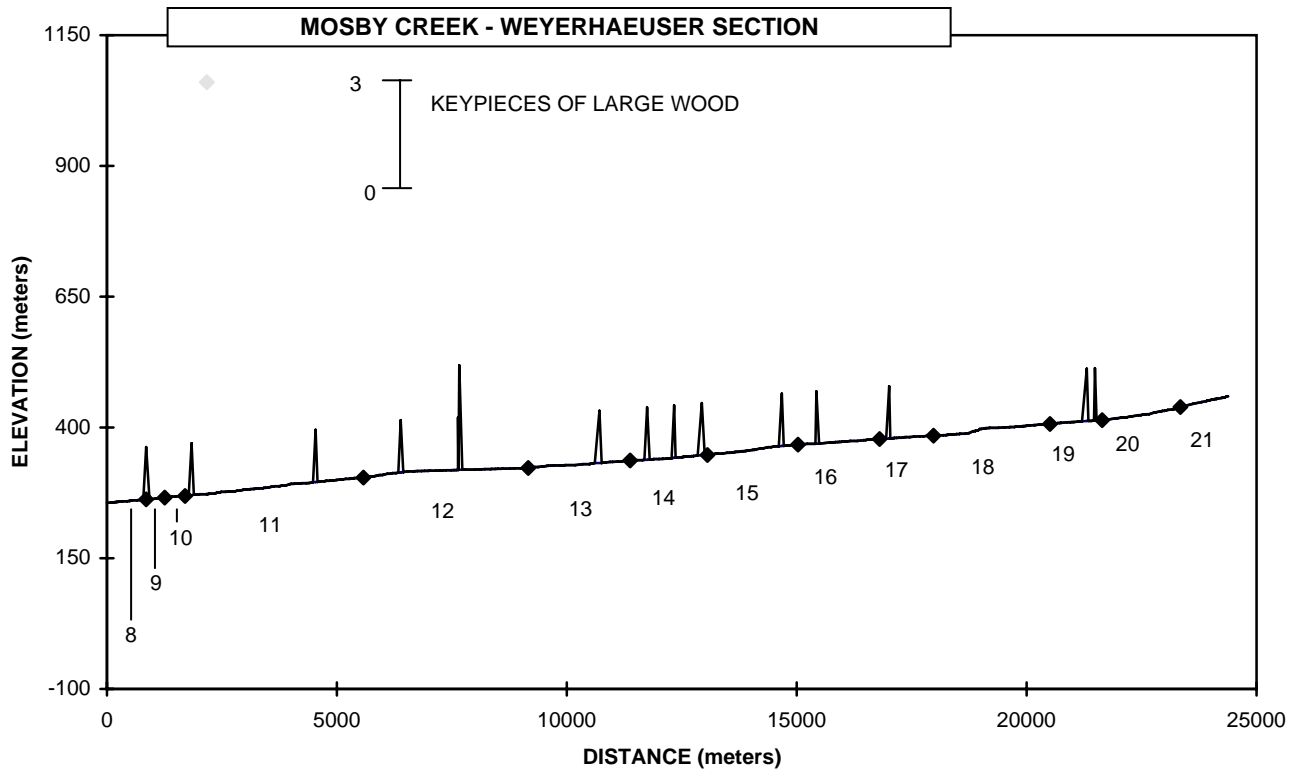












REACH 1

T20S-R03W-S35SW

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	20.0	VWI Range:	20 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	4,824	71,686	0
Secondary	167	905	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 8
Width: 12.2	Width: 22.2	27.3 (20.1 - 33.3)	37.3 (27.9 - 46.7)
Depth: 0.72	Height: 0.5	1.0 (0.8 - 1.3)	7.7 (1.2 - 43)

W:D ratio: 43.3
Stream Flow Type: MF
Average Unit Gradient: 0.7%
Water temperature (°C): 18.5 - 18.5

Entrenchment (ACW:FPW ratio): 1.3
Habitat Units/100m (total channel length): 1.6
Habitat Units/100m (primary channel length): 1.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	AG
Riparian Vegetation:	D15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	9%	Reach avg: 62%
Undercut Banks:	1%	Range: 18 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	66	1.4
Volume (m ³):	69	1.4
Key pieces (>=12m x 0.60m):	3	0.1

REACH 2

T21S-R02W-S07SW

REACH 2

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	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index		VWI Range: -	

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
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	285	26	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 0	<u>First Terrace</u> n = 0
Width: 0.1	Width:	(-)	(-)
Depth: 0.00	Height:	(-)	(-)

W:D ratio: Entrenchment (ACW:FPW ratio):
Stream Flow Type: Habitat Units/100m (total channel length): 0.4
Average Unit Gradient: 0.2% Habitat Units/100m (primary channel length): 0.4
Water temperature (°C): -

Riparian, Bank, and Wood Summary

Primary Secondary

Land Use:
Riparian Vegetation:

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg: 11%
Undercut Banks:		Range: 11 - 11

Large Wood Debris

Total Total / 100m primary channel

All pieces (>=3m x 0.15m):
Volume (m³):
Key pieces (>=12m x 0.60m):

REACH 3

T21S-R02W-S07SW

REACH 3

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	17.8	VWI Range:	9 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	3,471	51,208	0
Secondary	510	2,582	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 9	<u>First Terrace</u> n = 9
Width: 11.5	Width: 27.3	33.3 (25.2 - 68.2)	39.9 (30.5 - 76.9)
Depth: 0.60	Height: 0.7	1.5 (1.1 - 2)	3.1 (1.45 - 5.3)

W:D ratio: 40.7

Stream Flow Type: MF

Average Unit Gradient: 0.2%

Water temperature (°C): 18.0 - 18.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 2.0

Habitat Units/100m (primary channel length): 2.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	AG
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	9%	Reach avg: 66%
Undercut Banks:	0%	Range: 33 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	92	2.7
Volume (m ³):	52	1.5
Key pieces (>=12m x 0.60m):	1	0.0

REACH 4

T21S-R02W-S19SS

REACH 4

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	9.4	VWI Range:	4.5 - 18

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	1,955	27,911	0
Secondary	268	1,066	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 4
Width: 11.9	Width: 26.6	37.0 (24 - 43.5)	42.6 (32.7 - 49.6)
Depth: 0.58	Height: 0.6	1.2 (1 - 1.6)	2.3 (1.5 - 3.3)

W:D ratio: 49.2
Stream Flow Type: MF
Average Unit Gradient: 0.4%
Water temperature (°C): 17.0 - 17.0

Entrenchment (ACW:FPW ratio): 1.4
Habitat Units/100m (total channel length): 2.0
Habitat Units/100m (primary channel length): 2.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	18%	Reach avg: 65%
Undercut Banks:	3%	Range: 31 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	59	3.0
Volume (m ³):	59	3.0
Key pieces (>=12m x 0.60m):	1	0.1

REACH 5

T21S-R02W-S30SW

REACH 5

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	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index		VWI Range: -	

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
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	505	5	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<i>n = 0</i>	<u>First Terrace</u>	<i>n = 0</i>
Width: 0.0	Width:	(-)		(-)	
Depth: 0.00	Height:	(-)		(-)	

W:D ratio: Entrenchment (ACW:FPW ratio):
Stream Flow Type: Habitat Units/100m (total channel length): 0.2
Average Unit Gradient: 0.6% Habitat Units/100m (primary channel length): 0.2
Water temperature (°C): -

Riparian, Bank, and Wood Summary

Primary Secondary

Land Use:
Riparian Vegetation:

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg: 62%
Undercut Banks:		Range: 62 - 62

Large Wood Debris

Total Total / 100m primary channel

All pieces (>=3m x 0.15m):
Volume (m³):
Key pieces (>=12m x 0.60m):

REACH 6

T21S-R02W-S30SW

REACH 6

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	16.5	VWI Range:	13 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	402	6,726	0
Secondary	54	189	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 2	<u>First Terrace</u> n = 2
Width: 11.5	Width: 24.2	26.5 (24 - 29)	31.8 (28 - 35.6)
Depth: 0.43	Height: 0.7	1.4 (1.4 - 1.4)	2.4 (1.95 - 2.9)

W:D ratio: 34.6
Stream Flow Type: MF
Average Unit Gradient: 0.4%
Water temperature (°C): 17.0 - 17.0

Entrenchment (ACW:FPW ratio): 1.1
Habitat Units/100m (total channel length): 2.0
Habitat Units/100m (primary channel length): 2.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	26%	Reach avg: 64%
Undercut Banks:	1%	Range: 44 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	3	0.7
Volume (m ³):	0	0.1
Key pieces (>=12m x 0.60m):	0	0.0

REACH 7

T21S-R02W-S31NW

REACH 7

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	7.0	VWI Range:	7 - 7

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	973	13,819	0
Secondary	19	42	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 1	<u>First Terrace</u> n = 1
Width: 11.2	Width: 22.3	24.7 (24.7 - 24.7)	34.5 (34.5 - 34.5)
Depth: 0.54	Height: 0.6	1.2 (1.2 - 1.2)	3.7 (3.7 - 3.7)

W:D ratio: 37.2
Stream Flow Type: MF
Average Unit Gradient: 0.3%
Water temperature (°C): 17.0 - 17.0

Entrenchment (ACW:FPW ratio): 1.1
Habitat Units/100m (total channel length): 1.7
Habitat Units/100m (primary channel length): 1.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	ST
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	16%	Reach avg: 78%
Undercut Banks:	0%	Range: 53 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	10	1.0
Volume (m ³):	6	0.7
Key pieces (>=12m x 0.60m):	0	0.0

REACH 8

T21S-R02W-S31SE

REACH 8

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.6	VWI Range:	1.6 - 3.2

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	854	12,590	0
Secondary	191	961	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 4
Width: 10.4	Width: 25.5	33.9 (31.8 - 38)	45.3 (41.5 - 54)
Depth: 0.60	Height: 1.2	2.4 (1.8 - 2.7)	3.8 (2.6 - 4.7)

W:D ratio: 22.3
Stream Flow Type: MF
Average Unit Gradient: 0.8%
Water temperature (°C): 13.5 - 13.5

Entrenchment (ACW:FPW ratio): 1.3
Habitat Units/100m (total channel length): 3.6
Habitat Units/100m (primary channel length): 4.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	C30	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	6%	Reach avg: 61%
Undercut Banks:	1%	Range: 39 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	15	1.8
Volume (m ³):	19	2.3
Key pieces (>=12m x 0.60m):	1	0.1

REACH 9

T21S-R02W-S32SW

REACH 9

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.6	VWI Range:	3.6 - 3.6

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	403	4,737	0
Secondary	166	511	5

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 1	<u>First Terrace</u> n = 1
Width: 8.7	Width: 25.4	28.0 (28 - 28)	31.8 (31.8 - 31.8)
Depth: 0.46	Height: 1.1	2.1 (2.1 - 2.1)	3.0 (3 - 3)

W:D ratio: 24.2
Stream Flow Type: MF
Average Unit Gradient: 0.8%
Water temperature (°C): 18.0 - 18.0

Entrenchment (ACW:FPW ratio): 1.1
Habitat Units/100m (total channel length): 2.8
Habitat Units/100m (primary channel length): 4.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M50	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	5%	Reach avg: 63%
Undercut Banks:	0%	Range: 34 - 77

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	11	2.7
Volume (m ³):	4	1.1
Key pieces (>=12m x 0.60m):	0	0.0

REACH 10

T22S-R02W-S05NE

REACH 10

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	100%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.3	VWI Range:	1.5 - 3.1

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	100%	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	441	5,205	0
Secondary	118	165	3

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 2	<u>First Terrace</u> n = 1
Width: 7.5	Width: 22.5	34.5 (31 - 38)	36.0 (36 - 36)
Depth: 0.66	Height: 1.1	2.3 (2.2 - 2.3)	3.3 (3.3 - 3.3)

W:D ratio: 20.0
Stream Flow Type: MF
Average Unit Gradient: 0.7%
Water temperature (°C): 12.5 - 12.5

Entrenchment (ACW:FPW ratio): 1.6
Habitat Units/100m (total channel length): 2.3
Habitat Units/100m (primary channel length): 2.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	S	C50

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	0%	Reach avg: 56%
Undercut Banks:	0%	Range: 33 - 73

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	2	0.5
Volume (m ³):	1	0.2
Key pieces (>=12m x 0.60m):	0	0.0

REACH 11

T22S-R02W-S05NE

REACH 11

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	53%
Moderate V-shape	42%	Multiple Terraces	6%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	4.3	VWI Range:	1.2 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	42%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	58%	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	3,879	50,968	0
Secondary	1,199	4,999	10

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 13	<u>First Terrace</u> n = 11
Width: 8.4	Width: 23.0	29.7 (22.5 - 37.4)	36.8 (25.2 - 42.5)
Depth: 0.51	Height: 1.0	2.0 (1.7 - 2.4)	2.9 (2.1 - 3.6)

W:D ratio: 22.7

Stream Flow Type: MF

Average Unit Gradient: 0.9%

Water temperature (°C): 13.5 - 17.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 3.5

Habitat Units/100m (primary channel length): 4.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	C30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	4%	Reach avg: 60%
Undercut Banks:	1%	Range: 28 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	58	1.5
Volume (m ³):	42	1.1
Key pieces (>=12m x 0.60m):	2	0.1

REACH 12

T22S-R02W-S09SW

REACH 12

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	8.2	VWI Range:	2 - 15

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	68%	Braided Channel	0%
Alt. Terrace/Hill	32%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	3,584	43,545	0
Secondary	1,075	5,683	11

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 10	<u>First Terrace</u> n = 10
Width: 8.8	Width: 21.0	27.5 (20.7 - 35.4)	34.2 (23.7 - 55.6)
Depth: 0.43	Height: 0.8	1.6 (1.3 - 1.9)	2.4 (1.6 - 3.5)

W:D ratio: 26.4
Stream Flow Type: MF
Average Unit Gradient: 0.5%
Water temperature (°C): 15.0 - 18.0

Entrenchment (ACW:FPW ratio): 1.3
Habitat Units/100m (total channel length): 2.3
Habitat Units/100m (primary channel length): 3.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	3%	Reach avg: 62%
Undercut Banks:	1%	Range: 33 - 96

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	49	1.4
Volume (m ³):	83	2.3
Key pieces (>=12m x 0.60m):	5	0.1

REACH 13

T22S-R02W-S15SE

REACH 13

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	9.3	VWI Range:	7 - 11

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	31%	Braided Channel	0%
Alt. Terrace/Hill	69%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	2,218	24,442	0
Secondary	453	2,527	4

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 6	<u>First Terrace</u> n = 6
Width: 8.6	Width: 21.3	32.8 (19.5 - 68)	38.4 (27.8 - 70)
Depth: 0.56	Height: 0.7	1.4 (1.1 - 1.8)	3.1 (1.9 - 5.8)

W:D ratio: 31.3
Stream Flow Type: MF
Average Unit Gradient: 0.6%
Water temperature (°C): 15.0 - 17.0

Entrenchment (ACW:FPW ratio): 1.5
Habitat Units/100m (total channel length): 2.3
Habitat Units/100m (primary channel length): 2.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	TH
Riparian Vegetation:	M15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	6%	Reach avg: 62%
Undercut Banks:	2%	Range: 33 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	78	3.5
Volume (m ³):	40	1.8
Key pieces (>=12m x 0.60m):	1	0.0

REACH 14

T22S-R02W-S23SE

REACH 14

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	12.8	VWI Range:	5.5 - 20

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	1,680	18,489	0
Secondary	103	305	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 9.8	Width: 17.8	20.1 (18.1 - 21.8)	27.1 (23.3 - 31.7)
Depth: 0.73	Height: 0.7	1.3 (1.2 - 1.6)	4.0 (2.5 - 4.7)

W:D ratio: 26.6

Stream Flow Type: MF

Average Unit Gradient: 0.6%

Water temperature (°C): 16.0 - 16.0

Entrenchment (ACW:FPW ratio): 1.1

Habitat Units/100m (total channel length): 3.1

Habitat Units/100m (primary channel length): 3.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	TH
Riparian Vegetation:	C30	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	6%	Reach avg: 65%
Undercut Banks:	0%	Range: 36 - 92

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	24	1.4
Volume (m ³):	51	3.0
Key pieces (>=12m x 0.60m):	3	0.2

REACH 15

T22S-R02W-S26SE

REACH 15

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	12.9	VWI Range:	9 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	2,081	21,253	0
Secondary	575	2,093	10

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 7	<u>First Terrace</u> n = 7
Width: 7.2	Width: 16.7	23.4 (18.4 - 28.6)	31.0 (26.5 - 36.5)
Depth: 0.44	Height: 0.6	1.2 (1.1 - 1.4)	2.3 (1.7 - 3.4)

W:D ratio: 27.5
Stream Flow Type: MF
Average Unit Gradient: 1.0%
Water temperature (°C): 18.0 - 18.0

Entrenchment (ACW:FPW ratio): 1.4
Habitat Units/100m (total channel length): 2.8
Habitat Units/100m (primary channel length): 3.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	11%	Reach avg: 73%
Undercut Banks:	1%	Range: 42 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	44	2.1
Volume (m ³):	27	1.3
Key pieces (>=12m x 0.60m):	1	0.0

REACH 16

T22S-R23W-S36WW

REACH 16

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	11.5	VWI Range:	10.5 - 13

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	1,662	17,479	0
Secondary	531	2,133	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 3	<u>First Terrace</u> n = 3
Width: 7.1	Width: 19.4	23.7 (20.5 - 27.1)	33.4 (30.5 - 36)
Depth: 0.38	Height: 0.6	1.1 (1.1 - 1.2)	1.8 (1.7 - 2)

W:D ratio: 34.4
Stream Flow Type: MF
Average Unit Gradient: 0.6%
Water temperature (°C): 19.0 - 19.0

Entrenchment (ACW:FPW ratio): 1.2
Habitat Units/100m (total channel length): 2.6
Habitat Units/100m (primary channel length): 3.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	TH
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	20%	Reach avg: 73%
Undercut Banks:	3%	Range: 36 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	11	0.7
Volume (m ³):	55	3.3
Key pieces (>=12m x 0.60m):	1	0.1

REACH 17

T23S-R02W-S01NW

REACH 17

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	8.5	VWI Range:	7 - 9.5

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	1,174	17,975	0
Secondary	18	27	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 3	<u>First Terrace</u> n = 3
Width: 16.0	Width: 21.2	25.9 (21.4 - 28.5)	29.7 (27.2 - 31.4)
Depth: 0.50	Height: 0.5	1.1 (1 - 1.1)	2.0 (1.9 - 2.1)

W:D ratio: 39.7
Stream Flow Type: MF
Average Unit Gradient: 0.6%
Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.2
Habitat Units/100m (total channel length): 2.3
Habitat Units/100m (primary channel length): 2.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	9%	Reach avg: 73%
Undercut Banks:	1%	Range: 56 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	15	1.3
Volume (m ³):	42	3.6
Key pieces (>=12m x 0.60m):	1	0.1

REACH 18

T23S-R01W-S01SE

REACH 18

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	9.5	VWI Range:	6 - 13.5

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	36%	Braided Channel	0%
Alt. Terrace/Hill	64%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	2,532	25,112	0
Secondary	735	2,177	6

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 8
Width: 7.0	Width: 16.4	21.1 (17.2 - 30.8)	25.9 (21.2 - 33.8)
Depth: 0.46	Height: 0.6	1.2 (1 - 1.4)	2.4 (1.6 - 3.7)

W:D ratio: 28.6

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: MF

Habitat Units/100m (total channel length): 2.9

Average Unit Gradient: 0.9%

Habitat Units/100m (primary channel length): 3.7

Water temperature (°C): 18.0 - 19.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	8%	Reach avg: 78%
Undercut Banks:	1%	Range: 56 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	39	1.5
Volume (m ³):	31	1.2
Key pieces (>=12m x 0.60m):	0	0.0

REACH 19

T23S-R01W-S18NW

REACH 19

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	8.3	VWI Range:	7 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	50%	Braided Channel	0%
Alt. Terrace/Hill	50%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	1,135	9,821	0
Secondary	875	3,578	4

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 3	<u>First Terrace</u> n = 3
Width: 5.5	Width: 14.4	21.6 (15.9 - 32.8)	27.8 (22.4 - 34.8)
Depth: 0.35	Height: 0.6	1.1 (1 - 1.2)	2.2 (2 - 2.6)

W:D ratio: 26.5
Stream Flow Type: MF
Average Unit Gradient: 0.6%
Water temperature (°C): 16.0 - 18.0

Entrenchment (ACW:FPW ratio): 1.5
Habitat Units/100m (total channel length): 3.4
Habitat Units/100m (primary channel length): 6.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	27%	Reach avg: 81%
Undercut Banks:	2%	Range: 50 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	101	8.9
Volume (m ³):	108	9.5
Key pieces (>=12m x 0.60m):	2	0.2

REACH 20

T23S-R01W-S18SW

REACH 20

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	6.1	VWI Range:	4.8 - 9

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	1,699	19,221	0
Secondary	565	1,803	7

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 8.1	Width: 15.0	17.8 (14.1 - 27)	22.3 (16.1 - 29.4)
Depth: 0.39	Height: 0.6	1.2 (1.1 - 1.3)	2.7 (1.8 - 4.2)

W:D ratio: 25.4
Stream Flow Type: MF
Average Unit Gradient: 1.5%
Water temperature (°C): 15.0 - 15.0

Entrenchment (ACW:FPW ratio): 1.2
Habitat Units/100m (total channel length): 2.6
Habitat Units/100m (primary channel length): 3.4

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	19%	Reach avg: 81%
Undercut Banks:	2%	Range: 44 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	27	1.6
Volume (m ³):	54	3.2
Key pieces (>=12m x 0.60m):	0	0.0

REACH 21

T23S-R01W-S30NW

REACH 21

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	5.9	VWI Range:	4 - 9.2

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	1,037	8,265	0
Secondary	142	348	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 3	<u>First Terrace</u> n = 3
Width: 7.1	Width: 12.7	16.2 (14.8 - 18.2)	24.8 (20.5 - 29.7)
Depth: 0.33	Height: 0.5	1.0 (1 - 1.1)	1.7 (1.5 - 1.9)

W:D ratio: 24.6

Stream Flow Type: MF

Average Unit Gradient: 2.0%

Water temperature (°C): 13.0 - 13.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 2.0

Habitat Units/100m (primary channel length): 2.2

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	32%	Reach avg: 75%
Undercut Banks:	1%	Range: 33 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	6	0.6
Volume (m ³):	6	0.6
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/23/2008

REACH 1

T20S-R03W-S35SW

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	Cbl	Bldr	Bdrk
DRY UNIT	1	15	9.3	0.00	139	0	0	0	15	80	5	0
GLIDE	1	187	13.0	0.20	2,424	15	0	10	21	31	3	34
POOL-BACKWATER	1	17	5.6	0.70	94	0	70	30	0	0	0	0
POOL-DAMMED	3	289	15.7	1.50	4,549	1	3	18	20	22	7	30
POOL-ISOLATED	3	26	3.2	0.43	84	1	12	35	10	28	2	13
POOL-LATERAL SCOUR	29	2,424	13.9	1.06	39,337	71	4	14	29	30	6	17
POOL-TRENCH	5	521	16.4	2.47	9,051	8	5	14	6	8	4	63
RAPID/BEDROCK	3	185	7.9	0.35	1,196	10	0	2	7	15	7	70
RAPID/BOULDERS	6	297	13.7	0.24	4,268	66	0	6	17	46	21	11
RIFFLE	16	855	10.9	0.26	9,425	78	0	9	29	38	9	15
STEP/BEDROCK	2	13	5.0	0.28	58	0	0	0	5	3	0	93
STEP/COBBLE	9	158	10.3	0.17	1,899	17	0	6	39	45	7	3
STEP/STRUCTURE	2	4	16.2	0.10	68	0	0	0	0	95	5	0
Total:	81	4,990	12.2	0.72	72,591	267	Avg: 3	11	24	33	7	21

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	7	332	8.9	0.93	4,727	6.51%	2	0.0
Scour Pools	34	2,945	14.3	1.27	48,388	66.66%	79	0.2
Glides	1	187	13.0	0.20	2,424	3.34%	15	0.6
Riffles	16	855	10.9	0.26	9,425	12.98%	78	0.8
Rapids	9	482	11.8	0.28	5,464	7.53%	76	1.4
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	13	175	10.4	0.18	2,024	2.79%	17	0.8
Dry	1	15	9.3	0.00	139	0.19%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	41	8.2	8.5
Pools >=1m deep:	24	4.8	5.0
Complex pools (LWD pieces>=3):	5	1.0	1.0
Pool frequency (channel widths/pool):	5.5		
Residual pool depth (avg):	1.05		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/23/2008

REACH 2

T21S-R02W-S07SW

REACH 2

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	Cbl	Bldr	Bdrk
MIX OF HABITATS	1	285	0.1	0.00	26	0	17	17	17	17	17	17
Total:	1	285	0.1	0.00	26	0	Avg: 17	17	17	17	17	17

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	0	0			0	0.00%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	0	0			0	0.00%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	0	0			0	0.00%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	0	0.0	0.0
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	0.0		
Residual pool depth (avg):			

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/23/2008

REACH 3

T21S-R02W-S07SW

REACH 3

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	Cbl	Bldr	Bdrk
DRY CHANNEL	2	228	2.8	0.00	467	3	0	20	50	25	5	0
GLIDE	3	238	16.4	0.25	4,123	12	0	12	32	52	5	0
POOL-BACKWATER	1	9	2.8	0.40	25	3	10	90	0	0	0	0
POOL-DAMMED	2	205	18.1	1.90	3,681	3	5	22	42	20	5	7
POOL-ISOLATED	2	26	2.1	0.58	54	0	15	23	8	25	5	25
POOL-LATERAL SCOUR	30	1,933	14.1	1.07	30,001	80	3	17	27	29	7	17
POOL-STRAIGHT SCOUR	1	35	12.0	0.90	421	4	0	20	20	55	5	0
RAPID/BEDROCK	2	53	4.8	0.23	370	0	0	5	25	5	0	65
RAPID/BOULDERS	9	297	7.9	0.17	2,739	47	0	6	21	53	12	8
RIFFLE	17	832	10.7	0.25	10,613	78	0	9	19	48	12	14
STEP/BEDROCK	1	13	10.2	0.20	132	0	0	0	5	20	5	70
STEP/COBBLE	7	110	10.6	0.20	1,137	20	0	5	24	56	10	5
STEP/STRUCTURE	2	2	13.4	0.08	26	3	0	0	10	50	5	35
Total:	79	3,981	11.5	0.60	53,790	253	Avg: 2	13	24	38	8	15

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	5	240	8.6	1.07	3,759	6.99%	6	0.2
Scour Pools	31	1,968	14.0	1.07	30,423	56.56%	84	0.3
Glides	3	238	16.4	0.25	4,123	7.67%	12	0.3
Riffles	17	832	10.7	0.25	10,613	19.73%	78	0.7
Rapids	11	350	7.3	0.18	3,109	5.78%	47	1.5
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	10	125	11.1	0.18	1,296	2.41%	23	1.8
Dry	2	228	2.8	0.00	467	0.87%	3	0.6
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	36	9.0	10.4
Pools >=1m deep:	19	4.8	5.5
Complex pools (LWD pieces>=3):	4	1.0	1.2
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.83		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/28/2008

REACH 4

T21S-R02W-S19SS

REACH 4

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	Cbl	Bldr	Bdrk
GLIDE	1	28	13.0	0.30	363	0	0	10	38	43	5	5
POOL-BEAVER DAM	1	186	23.1	1.10	4,306	0	10	15	20	40	5	10
POOL-ISOLATED	1	2	4.6	0.60	9	0	10	20	60	10	0	0
POOL-LATERAL SCOUR	17	1,041	13.2	0.98	14,759	24	2	12	28	26	4	27
POOL-STRAIGHT SCOUR	1	46	9.3	1.00	426	0	0	15	10	10	0	65
POOL-TRENCH	1	37	30.6	2.00	1,131	1	0	5	0	10	5	80
PUDDLED UNIT	1	78	1.4	0.05	108	0	0	25	75	0	0	0
RAPID/BEDROCK	3	136	13.0	0.30	1,859	1	0	3	3	5	2	87
RAPID/BOULDERS	4	177	7.3	0.16	1,421	14	0	5	14	60	9	13
RIFFLE	7	381	8.4	0.21	3,379	16	1	9	16	51	9	14
STEP/BEAVER DAM	1	1	26.9	0.01	27	1	90	0	0	5	5	0
STEP/COBBLE	7	110	10.6	0.20	1,189	13	0	6	27	51	7	8
Total:	45	2,223	11.9	0.58	28,976	70	Avg: 3	10	23	34	6	24

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	2	188	13.9	0.85	4,315	14.89%	0	0.0
Scour Pools	19	1,124	13.9	1.03	16,315	56.31%	25	0.2
Glides	1	28	13.0	0.30	363	1.25%	0	0.0
Riffles	7	381	8.4	0.21	3,379	11.66%	16	0.5
Rapids	7	313	9.7	0.22	3,281	11.32%	15	0.5
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	8	111	12.6	0.18	1,216	4.20%	14	1.2
Dry	1	78	1.4	0.05	108	0.37%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	21	9.4	10.7
Pools >=1m deep:	11	4.9	5.6
Complex pools (LWD pieces>=3):	6	2.7	3.1
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.78		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/28/2008

REACH 5

T21S-R02W-S30SW

REACH 5

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	Cbl	Bldr	Bdrk
MIX OF HABITATS	1	505	0.0	0.00	5	0	17	17	17	17	17	17
Total:	1	505	0.0	0.00	5	0	Avg: 17	17	17	17	17	17

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	0	0			0	0.00%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	0	0			0	0.00%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	0	0			0	0.00%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	0	0.0	0.0
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	0.0		
Residual pool depth (avg):			

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/28/2008

REACH 6

T21S-R02W-S30SW

REACH 6

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	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	1	15	4.2	0.10	63	60	0	5	5	10	80	0
DRY CHANNEL	1	15	2.5	0.00	38	0	0	5	20	65	10	0
POOL-ISOLATED	1	24	3.7	0.60	89	0	80	20	0	0	0	0
POOL-LATERAL SCOUR	3	276	18.5	0.87	5,157	35	0	10	58	24	5	3
RAPID/BOULDERS	1	28	13.9	0.10	389	3	0	10	35	50	5	0
RIFFLE	2	98	12.0	0.23	1,180	32	0	10	18	60	13	0
Total:	9	456	11.5	0.43	6,915	130	Avg: 9	10	30	35	15	1

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	24	3.7	0.60	89	1.29%	0	0.0
Scour Pools	3	276	18.5	0.87	5,157	74.58%	35	0.7
Glides	0	0			0	0.00%	0	0.0
Riffles	2	98	12.0	0.23	1,180	17.06%	32	2.7
Rapids	1	28	13.9	0.10	389	5.62%	3	0.8
Cascades	1	15	4.2	0.10	63	0.90%	60	96.0
Step/Falls	0	0			0	0.00%	0	0.0
Dry	1	15	2.5	0.00	38	0.54%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	4	8.8	10.0
Pools >=1m deep:	1	2.2	2.5
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	4.7		
Residual pool depth (avg):	0.63		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/28/2008

REACH 7

T21S-R02W-S31NW

REACH 7

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	Cbl	Bldr	Bdrk
POOL-BACKWATER	2	14	2.1	0.33	29	0	5	25	5	18	3	45
POOL-LATERAL SCOUR	6	365	14.0	1.05	5,361	128	3	18	20	23	8	28
RAPID/BOULDERS	5	366	13.0	0.28	4,772	1,904	0	4	11	45	34	5
RIFFLE	2	238	16.2	0.20	3,681	195	0	8	40	40	10	3
STEP/BEDROCK	2	8	2.1	0.18	17	2	0	0	0	5	3	93
Total:	17	991	11.2	0.54	13,860	2,229	Avg: 1	11	16	29	15	28

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	2	14	2.1	0.33	29	0.21%	0	0.0
Scour Pools	6	365	14.0	1.05	5,361	38.68%	128	2.4
Glides	0	0			0	0.00%	0	0.0
Riffles	2	238	16.2	0.20	3,681	26.55%	195	5.3
Rapids	5	366	13.0	0.28	4,772	34.43%	1,904	39.9
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	2	8	2.1	0.18	17	0.13%	2	11.5
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	8	8.1	8.2
Pools >=1m deep:	3	3.0	3.1
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	5.6		
Residual pool depth (avg):	0.77		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

6/23/2008

REACH 8

T21S-R02W-S31SE

REACH 8

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	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	1	6	1.7	0.05	9	16	0	27	5	55	14	0
POOL-BACKWATER	1	6	2.8	0.60	17	0	0	40	60	0	0	0
POOL-LATERAL SCOUR	13	498	12.2	1.06	7,160	121	2	14	19	35	14	15
POOL-STRAIGHT SCOUR	1	26	14.8	1.40	385	13	0	6	6	0	18	71
PUDDLED UNIT	1	23	1.9	0.05	43	0	0	31	6	63	0	0
RAPID/BEDROCK	1	28	10.2	0.25	285	12	0	5	5	5	5	80
RAPID/BOULDERS	4	51	5.1	0.34	385	45	1	15	20	45	19	0
RIFFLE	7	293	10.4	0.28	3,696	106	0	6	17	56	18	3
RIFFLE W/ POCKETS	1	23	18.5	0.50	426	23	0	5	20	60	15	0
STEP/BOULDERS	1	1	0.6	0.40	0	1	0	0	0	20	80	0
STEP/COBBLE	7	91	13.2	0.35	1,144	103	0	3	16	39	19	24
Total:	38	1,045	10.4	0.60	13,551	440	Avg: 1	11	17	40	17	14

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	6	2.8	0.60	17	0.12%	0	0.0
Scour Pools	14	524	12.4	1.09	7,545	55.68%	134	1.8
Glides	0	0			0	0.00%	0	0.0
Riffles	8	316	11.5	0.31	4,122	30.42%	129	3.1
Rapids	5	79	6.1	0.32	671	4.95%	57	8.5
Cascades	1	6	1.7	0.05	9	0.07%	16	174.5
Step/Falls	8	92	11.6	0.36	1,145	8.45%	104	9.1
Dry	1	23	1.9	0.05	43	0.31%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	15	14.4	17.6
Pools >=1m deep:	9	8.6	10.5
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	2.7		
Residual pool depth (avg):	0.65		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

6/23/2008

REACH 9

T21S-R02W-S32SW

REACH 9

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	Cbl	Bldr	Bdrk
DRY CHANNEL	3	135	3.4	0.00	456	9	0	7	11	70	12	0
GLIDE	1	61	11.1	0.70	678	10	0	35	10	35	20	0
POOL-LATERAL SCOUR	3	146	12.3	0.92	1,749	15	0	10	22	29	7	31
POOL-TRENCH	1	30	11.1	1.10	333	0	0	0	5	5	5	85
PUDDLED UNIT	2	31	1.8	0.15	56	1	55	13	3	5	3	23
RAPID/BEDROCK	1	24	11.1	0.55	267	4	0	5	10	10	40	35
RIFFLE	2	103	11.1	0.33	1,280	43	0	5	18	45	18	15
STEP/BEDROCK	1	13	10.2	0.55	132	4	0	5	10	10	40	35
STEP/COBBLE	2	26	11.6	0.40	298	11	0	3	23	28	13	35
Total:	16	569	8.7	0.46	5,249	97	Avg: 7	9	14	32	14	25

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	4	176	12.0	0.96	2,082	39.68%	15	0.7
Glides	1	61	11.1	0.70	678	12.91%	10	1.5
Riffles	2	103	11.1	0.33	1,280	24.38%	43	3.4
Rapids	1	24	11.1	0.55	267	5.08%	4	1.5
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	3	39	11.1	0.45	431	8.20%	15	3.5
Dry	5	166	2.8	0.06	511	9.75%	10	2.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	4	7.0	9.9
Pools >=1m deep:	2	3.5	5.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	5.5		
Residual pool depth (avg):	0.44		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

6/23/2008

REACH 10

T22S-R02W-S05NE

REACH 10

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	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	1	62	7.4	0.80	459	4	0	0	0	5	10	85
DRY CHANNEL	1	80	1.4	0.00	111	12	0	50	20	10	20	0
DRY UNIT	1	10	1.4	0.00	14	0	0	80	0	0	0	20
POOL-LATERAL SCOUR	1	90	10.2	1.30	917	36	0	15	25	40	20	0
POOL-TRENCH	3	155	10.8	1.50	1,822	4	0	3	5	7	3	82
PUDDLED UNIT	1	10	1.5	0.20	15	0	0	75	0	25	0	0
RAPID/BEDROCK	1	15	7.4	0.80	111	0	0	5	5	0	0	90
RAPID/BOULDERS	2	81	6.7	0.28	847	74	0	3	13	18	68	0
RIFFLE	1	50	21.3	0.30	1,065	10	0	20	15	35	30	0
STEP/BOULDERS	1	6	1.5	0.10	8	12	0	5	5	0	90	0
Total:	13	559	7.5	0.66	5,369	152	Avg: 0	20	8	13	24	34

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	4	245	10.6	1.45	2,739	51.01%	40	1.5
Glides	0	0			0	0.00%	0	0.0
Riffles	1	50	21.3	0.30	1,065	19.83%	10	0.9
Rapids	3	96	6.9	0.45	958	17.85%	74	7.7
Cascades	1	62	7.4	0.80	459	8.55%	4	0.9
Step/Falls	1	6	1.5	0.10	8	0.15%	12	147.3
Dry	3	100	1.4	0.07	140	2.60%	12	8.6
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	4	7.2	9.1
Pools >=1m deep:	4	7.2	9.1
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	7.4		
Residual pool depth (avg):	0.85		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

6/23/2008

REACH 11

T22S-R02W-S05NE

REACH 11

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	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	1	12	2.6	0.20	31	4	0	10	5	80	5	0
CASCADE/BOULDERS	2	18	1.9	0.20	32	10	3	8	23	55	13	0
DRY CHANNEL	7	183	4.6	0.00	879	101	11	15	26	36	12	0
DRY UNIT	1	13	7.2	0.00	94	60	0	20	0	35	45	0
GLIDE	3	270	14.8	0.45	3,947	27	5	15	25	10	13	32
POOL-BACKWATER	3	25	7.5	0.87	166	0	8	7	10	25	0	50
POOL-LATERAL SCOUR	49	1,508	8.8	0.91	18,006	506	6	15	17	25	13	22
POOL-PLUNGE	2	13	9.0	1.23	123	5	0	5	3	5	0	88
POOL-STRAIGHT SCOUR	2	151	13.9	1.38	2,417	11	6	20	12	27	19	16
POOL-TRENCH	2	105	11.6	1.95	1,229	6	0	20	5	18	8	50
PUDDLED UNIT	2	60	4.0	0.23	317	4	40	23	3	3	8	25
RAPID/BEDROCK	6	212	9.3	0.46	2,188	136	0	4	3	19	17	57
RAPID/BOULDERS	22	868	9.8	0.36	9,873	2,070	0	8	9	33	40	11
RIFFLE	30	1,114	9.3	0.33	11,816	622	2	13	18	39	18	9
RIFFLE W/ POCKETS	3	107	14.2	0.42	1,531	90	0	8	17	40	35	0
STEP/BEDROCK	15	128	7.3	0.30	1,226	201	8	2	2	8	13	67
STEP/BOULDERS	4	60	10.1	0.32	642	190	3	14	14	27	38	4
STEP/COBBLE	26	232	5.3	0.20	1,450	264	4	13	18	53	11	2
Total:	180	5,079	8.4	0.51	55,967	4,307	Avg: 5	12	14	32	18	20

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	3	25	7.5	0.87	166	0.30%	0	0.0
Scour Pools	55	1,777	9.1	0.98	21,774	38.91%	528	2.4
Glides	3	270	14.8	0.45	3,947	7.05%	27	0.7
Riffles	33	1,221	9.7	0.34	13,347	23.85%	712	5.3
Rapids	28	1,080	9.7	0.38	12,061	21.55%	2,206	18.3
Cascades	3	30	2.1	0.20	63	0.11%	14	22.1
Step/Falls	45	420	6.4	0.24	3,318	5.93%	655	19.7
Dry	10	256	4.7	0.05	1,290	2.30%	165	12.8
Culverts	0	0			0	0.00%	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

6/23/2008

REACH 11

T22S-R02W-S34SE

REACH 11

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	58	11.4	15.0
Pools >=1m deep:	23	4.5	5.9
Complex pools (LWD pieces>=3):	1	0.2	0.3
Pool frequency (channel widths/pool):	3.8		
Residual pool depth (avg):	0.63		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/2/2008

REACH 12

T22S-R02W-S09SW

REACH 12

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	Cbl	Bldr	Bdrk
DRY CHANNEL	6	246	7.0	0.00	1,766	61	7	11	39	38	6	0
GLIDE	6	420	13.0	0.33	5,674	80	3	13	38	33	12	3
POOL-BACKWATER	4	42	6.0	0.51	254	11	26	18	21	25	8	3
POOL-BEAVER DAM	1	8	5.6	1.10	44	0	20	75	5	0	0	0
POOL-LATERAL SCOUR	30	1,603	9.8	0.89	17,835	234	11	15	23	25	12	15
PUDDLED UNIT	5	126	2.3	0.15	363	12	9	23	22	44	2	0
RAPID/BEDROCK	3	92	8.3	0.28	859	14	0	10	15	20	3	52
RAPID/BOULDERS	6	206	9.4	0.28	2,090	449	0	8	18	41	31	3
RIFFLE	38	1,784	8.9	0.25	18,585	1,793	3	13	26	43	14	2
RIFFLE W/ POCKETS	1	51	20.4	0.10	1,039	5	0	10	10	75	5	0
STEP/BEAVER DAM	1	1	8.3	0.10	11	0	95	5	0	0	0	0
STEP/BEDROCK	2	17	5.8	0.13	97	41	0	0	0	8	18	75
STEP/COBBLE	6	64	8.4	0.22	609	84	0	5	38	44	13	0
Total:	109	4,660	8.8	0.43	49,227	2,784	Avg: 7	13	25	35	12	8

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	5	50	5.9	0.63	299	0.61%	11	3.7
Scour Pools	30	1,603	9.8	0.89	17,835	36.23%	234	1.3
Glides	6	420	13.0	0.33	5,674	11.53%	80	1.4
Riffles	39	1,835	9.2	0.25	19,623	39.86%	1,798	9.2
Rapids	9	298	9.0	0.28	2,949	5.99%	463	15.7
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	9	83	7.8	0.18	717	1.46%	125	17.4
Dry	11	372	4.8	0.07	2,130	4.33%	73	3.4
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	35	7.5	9.8
Pools >=1m deep:	11	2.4	3.1
Complex pools (LWD pieces>=3):	2	0.4	0.6
Pool frequency (channel widths/pool):	6.4		
Residual pool depth (avg):	0.66		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/8/2008

REACH 13

T22S-R02W-S15SE

REACH 13

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	Cbl	Bldr	Bdrk
DRY CHANNEL	3	146	6.5	0.00	988	75	7	15	27	37	13	2
GLIDE	1	28	7.9	0.35	220	0	0	5	30	65	0	0
POOL-ISOLATED	1	10	1.0	0.05	10	0	45	10	15	30	0	0
POOL-LATERAL SCOUR	18	980	9.9	0.88	11,945	45	8	16	24	24	5	24
POOL-PLUNGE	1	6	3.7	0.70	22	0	0	0	0	35	0	65
POOL-STRAIGHT SCOUR	3	147	11.1	2.03	1,579	5	0	2	15	10	8	65
POOL-TRENCH	1	51	7.4	3.00	378	0	5	5	0	5	0	85
PUDDLED UNIT	1	24	1.9	0.20	44	0	10	5	10	5	10	60
RAPID/BEDROCK	8	264	6.9	0.27	2,157	123	9	6	7	15	8	55
RAPID/BOULDERS	2	79	13.7	0.28	1,062	165	0	8	23	28	25	18
RIFFLE	15	889	9.2	0.26	8,185	836	0	10	30	34	18	8
STEP/BEDROCK	4	20	6.4	0.25	148	12	9	0	3	14	8	68
STEP/COBBLE	4	27	8.2	0.31	231	80	0	8	18	39	19	18
Total:	62	2,671	8.6	0.56	26,969	1,341	Avg: 5	10	20	26	10	29

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	10	1.0	0.05	10	0.04%	0	0.0
Scour Pools	23	1,184	9.7	1.11	13,924	51.63%	50	0.4
Glides	1	28	7.9	0.35	220	0.82%	0	0.0
Riffles	15	889	9.2	0.26	8,185	30.35%	836	10.2
Rapids	10	343	8.2	0.27	3,219	11.94%	288	8.9
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	8	47	7.3	0.28	379	1.40%	92	24.3
Dry	4	170	5.4	0.05	1,032	3.83%	75	7.3
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	24	9.0	10.8
Pools >=1m deep:	9	3.4	4.1
Complex pools (LWD pieces>=3):	5	1.9	2.3
Pool frequency (channel widths/pool):	5.2		
Residual pool depth (avg):	0.80		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/9/2008

REACH 14

T22S-R02W-S23SE

REACH 14

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	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	1	56	13.9	0.35	778	35	0	0	5	15	10	70
POOL-BACKWATER	1	9	6.5	0.75	58	3	65	0	0	5	10	20
POOL-LATERAL SCOUR	17	699	11.1	1.02	7,925	145	1	14	17	18	17	33
POOL-STRAIGHT SCOUR	3	107	11.0	1.47	1,162	8	0	8	22	13	17	40
POOL-TRENCH	3	151	11.2	2.53	1,720	1	0	2	5	3	7	83
PUDDLED UNIT	1	30	0.9	0.15	28	5	0	15	25	60	0	0
RAPID/BEDROCK	7	323	11.4	0.33	3,497	170	0	4	14	24	10	49
RAPID/BOULDERS	1	20	4.2	0.30	83	30	0	5	15	20	40	20
RIFFLE	6	265	7.1	0.21	2,345	291	1	12	36	18	3	29
STEP/BEDROCK	14	116	9.3	0.39	1,159	165	1	7	10	12	13	58
STEP/COBBLE	1	7	5.6	0.20	39	14	0	5	10	30	10	45
Total:	55	1,783	9.8	0.73	18,794	867	Avg: 2	9	16	17	13	44

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	9	6.5	0.75	58	0.31%	3	5.1
Scour Pools	23	957	11.1	1.28	10,807	57.50%	154	1.4
Glides	0	0			0	0.00%	0	0.0
Riffles	6	265	7.1	0.21	2,345	12.48%	291	12.4
Rapids	8	343	10.5	0.33	3,580	19.05%	200	5.6
Cascades	1	56	13.9	0.35	778	4.14%	35	4.5
Step/Falls	15	123	9.1	0.38	1,198	6.37%	179	14.9
Dry	1	30	0.9	0.15	28	0.15%	5	18.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	24	13.5	14.3
Pools >=1m deep:	13	7.3	7.7
Complex pools (LWD pieces>=3):	1	0.6	0.6
Pool frequency (channel widths/pool):	4.2		
Residual pool depth (avg):	0.88		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/11/2008

Survey Date:

7/10/2008

REACH 15

T22S-R02W-S26SE

REACH 15

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	Cbl	Bldr	Bdrk
DRY CHANNEL	3	107	3.6	0.00	397	11	2	23	47	17	3	8
DRY UNIT	4	115	5.6	0.00	731	13	9	28	31	29	4	0
POOL-ISOLATED	2	10	1.7	0.25	16	0	45	13	13	30	0	0
POOL-LATERAL SCOUR	29	1,021	7.4	0.69	8,867	293	9	15	24	25	9	17
POOL-STRAIGHT SCOUR	1	22	9.3	1.10	204	10	0	5	15	10	10	60
POOL-TRENCH	1	44	8.8	2.00	387	5	0	15	25	5	5	50
PUDDLED UNIT	3	96	2.2	0.13	218	14	17	22	17	37	7	2
RAPID/BEDROCK	6	379	9.6	0.44	3,994	58	3	4	11	16	10	57
RAPID/BOULDERS	3	107	7.4	0.28	1,131	195	0	5	17	15	18	45
RIFFLE	15	685	8.8	0.23	6,895	791	7	9	20	30	18	17
RIFFLE W/ POCKETS	1	27	9.3	0.15	250	20	0	10	30	45	15	0
STEP/BEDROCK	2	10	6.5	0.40	75	10	0	0	3	18	15	65
STEP/COBBLE	4	33	4.9	0.15	181	11	21	14	14	43	9	0
Total:	74	2,655	7.2	0.44	23,346	1,431	Avg: 9	13	21	26	11	20

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	2	10	1.7	0.25	16	0.07%	0	0.0
Scour Pools	31	1,087	7.5	0.75	9,458	40.51%	308	3.3
Glides	0	0			0	0.00%	0	0.0
Riffles	16	712	8.8	0.23	7,145	30.61%	811	11.4
Rapids	9	486	8.8	0.39	5,126	21.96%	253	4.9
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	6	43	5.4	0.24	255	1.09%	21	8.2
Dry	10	318	4.0	0.04	1,346	5.76%	38	2.8
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	33	12.4	15.9
Pools >=1m deep:	5	1.9	2.4
Complex pools (LWD pieces>=3):	2	0.8	1.0
Pool frequency (channel widths/pool):	4.8		
Residual pool depth (avg):	0.49		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/11/2008

Survey Date:

7/14/2008

REACH 16

T22S-R23W-S36WW

REACH 16

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	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	1	25	7.9	0.40	197	5	0	20	10	10	0	60
DRY UNIT	1	102	5.6	0.00	567	200	5	15	15	40	25	0
GLIDE	1	113	11.1	0.30	1,256	25	0	20	65	10	5	0
POOL-ISOLATED	3	42	3.7	0.53	161	4	15	12	40	8	2	23
POOL-LATERAL SCOUR	20	760	7.6	0.68	6,508	246	8	14	20	19	16	22
POOL-STRAIGHT SCOUR	1	40	7.4	0.50	296	50	0	15	25	35	25	0
PUDDLED UNIT	1	44	0.6	0.10	24	120	5	10	15	50	20	0
RAPID/BEDROCK	4	164	10.4	0.25	1,733	354	1	3	8	8	18	64
RAPID/BOULDERS	4	80	6.7	0.16	794	130	10	8	20	39	23	1
RIFFLE	14	792	7.4	0.19	7,868	540	4	14	29	32	16	6
STEP/COBBLE	6	32	4.9	0.10	209	79	3	16	31	28	18	5
Total:	56	2,193	7.1	0.38	19,612	1,753	Avg: 6	13	24	24	16	17

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	3	42	3.7	0.53	161	0.82%	4	2.5
Scour Pools	21	800	7.6	0.67	6,804	34.69%	296	4.4
Glides	1	113	11.1	0.30	1,256	6.40%	25	2.0
Riffles	14	792	7.4	0.19	7,868	40.12%	540	6.9
Rapids	8	244	8.6	0.21	2,527	12.88%	484	19.2
Cascades	1	25	7.9	0.40	197	1.00%	5	2.5
Step/Falls	6	32	4.9	0.10	209	1.06%	79	37.9
Dry	2	146	3.1	0.05	591	3.01%	320	54.1
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	24	10.9	14.4
Pools >=1m deep:	3	1.4	1.8
Complex pools (LWD pieces>=3):	1	0.5	0.6
Pool frequency (channel widths/pool):	4.7		
Residual pool depth (avg):	0.50		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/14/2008

REACH 17

T23S-R02W-S01NW

REACH 17

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	Cbl	Bldr	Bdrk
GLIDE	1	80	12.0	0.25	963	30	5	35	35	5	10	10
POOL-LATERAL SCOUR	6	267	33.1	1.00	7,288	89	6	12	21	23	8	31
POOL-STRAIGHT SCOUR	1	54	13.0	0.95	700	28	0	25	10	10	15	40
POOL-TRENCH	1	25	12.0	1.10	301	3	23	5	0	0	0	73
RAPID/BEDROCK	6	325	12.3	0.33	3,803	149	1	4	10	14	10	61
RAPID/BOULDERS	3	139	8.2	0.28	1,435	398	0	25	17	18	40	0
RIFFLE	3	263	11.3	0.32	3,067	265	0	5	15	20	13	47
STEP/BEDROCK	2	3	8.3	0.23	26	2	18	0	0	5	3	75
STEP/BOULDERS	1	6	1.7	0.10	10	18	0	5	5	80	10	0
STEP/COBBLE	1	24	13.0	0.20	311	30	0	10	45	20	10	15
STEP/LOG	2	7	16.2	0.30	98	5	83	0	0	0	18	0
Total:	27	1,192	16.0	0.50	18,001	1,017	Avg: 10	10	14	17	13	36

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	8	346	28.0	1.01	8,289	46.05%	120	1.4
Glides	1	80	12.0	0.25	963	5.35%	30	3.1
Riffles	3	263	11.3	0.32	3,067	17.04%	265	8.6
Rapids	9	464	10.9	0.31	5,238	29.10%	547	10.4
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	6	39	10.6	0.23	444	2.47%	55	12.4
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	8	6.7	6.8
Pools >=1m deep:	4	3.4	3.4
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	7.0		
Residual pool depth (avg):	0.70		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/14/2008

REACH 18

T23S-R01W-S01SE

REACH 18

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	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	2	69	19.4	0.53	1,300	44	0	8	5	5	14	68
DRY CHANNEL	1	28	3.3	0.00	93	6	0	30	45	20	5	0
DRY UNIT	5	159	2.9	0.00	494	73	3	15	32	41	9	0
POOL-BACKWATER	1	9	5.6	1.25	50	3	10	15	5	0	20	50
POOL-LATERAL SCOUR	31	972	7.7	0.74	8,271	291	11	14	19	21	11	23
POOL-STRAIGHT SCOUR	3	127	9.3	1.17	1,187	30	2	18	17	12	20	32
POOL-TRENCH	2	209	12.5	1.80	2,472	15	0	18	13	8	8	55
RAPID/BEDROCK	8	436	6.9	0.34	3,788	28	5	2	3	7	9	74
RAPID/BOULDERS	10	551	7.4	0.23	5,124	928	2	11	18	31	32	8
RIFFLE	17	569	4.1	0.17	3,323	504	16	12	17	22	17	15
STEP/BEDROCK	7	62	8.4	0.29	593	15	1	1	3	1	4	90
STEP/COBBLE	7	76	6.3	0.17	594	345	2	6	15	44	32	1
Total:	94	3,267	7.0	0.46	27,290	2,282	Avg: 8	11	16	21	15	29

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	9	5.6	1.25	50	0.18%	3	6.0
Scour Pools	36	1,308	8.1	0.84	11,930	43.72%	336	2.8
Glides	0	0			0	0.00%	0	0.0
Riffles	17	569	4.1	0.17	3,323	12.17%	504	15.2
Rapids	18	987	7.2	0.28	8,912	32.66%	956	10.7
Cascades	2	69	19.4	0.53	1,300	4.76%	44	3.4
Step/Falls	14	138	7.4	0.23	1,187	4.35%	360	30.3
Dry	6	187	3.0	0.00	588	2.15%	79	13.4
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	37	11.3	14.6
Pools >=1m deep:	12	3.7	4.7
Complex pools (LWD pieces>=3):	3	0.9	1.2
Pool frequency (channel widths/pool):	5.4		
Residual pool depth (avg):	0.60		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/17/2008

REACH 19

T23S-R01W-S18NW

REACH 19

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	Cbl	Bldr	Bdrk
DRY CHANNEL	1	50	5.2	0.00	259	65	0	10	35	30	25	0
DRY UNIT	2	26	5.8	0.00	144	38	3	13	53	23	10	0
POOL-LATERAL SCOUR	27	660	5.8	0.66	4,613	292	11	18	27	24	13	7
PUDDLED UNIT	1	38	1.5	0.15	56	25	15	10	15	25	35	0
RAPID/BEDROCK	5	157	7.3	0.18	1,106	95	0	2	9	24	17	48
RAPID/BOULDERS	11	366	5.1	0.20	2,115	652	1	10	23	28	34	4
RIFFLE	15	693	5.1	0.15	5,022	648	11	15	29	26	16	5
STEP/BEDROCK	1	2	9.3	0.30	19	0	0	5	10	0	0	85
STEP/COBBLE	4	18	3.6	0.09	64	73	4	10	44	19	23	0
STEP/LOG	1	0	6.0	0.10	2	0	95	0	5	0	0	0
Total:	68	2,010	5.5	0.35	13,399	1,888	Avg: 9	13	26	24	18	9

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	27	660	5.8	0.66	4,613	34.43%	292	6.3
Glides	0	0			0	0.00%	0	0.0
Riffles	15	693	5.1	0.15	5,022	37.48%	648	12.9
Rapids	16	523	5.7	0.19	3,221	24.04%	747	23.2
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	6	20	4.9	0.13	84	0.63%	73	86.4
Dry	4	114	4.6	0.04	460	3.43%	128	27.9
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	27	13.4	23.8
Pools >=1m deep:	4	2.0	3.5
Complex pools (LWD pieces>=3):	3	1.5	2.6
Pool frequency (channel widths/pool):	5.2		
Residual pool depth (avg):	0.49		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/17/2008

REACH 20

T23S-R01W-S18SW

REACH 20

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	Cbl	Bldr	Bdrk
DRY UNIT	5	190	3.9	0.00	751	17	37	17	12	30	4	0
POOL-LATERAL SCOUR	18	467	13.3	0.83	8,274	272	20	13	19	24	17	8
POOL-STRAIGHT SCOUR	1	23	9.3	1.00	213	0	10	25	5	5	10	45
PUDDLED UNIT	2	45	0.6	0.13	27	30	5	13	21	37	13	11
RAPID/BEDROCK	2	163	5.0	0.20	1,225	100	15	10	10	13	53	0
RAPID/BOULDERS	14	863	8.3	0.23	7,524	1,520	2	12	17	23	37	9
RIFFLE	11	454	5.0	0.18	2,742	541	18	9	18	24	18	14
RIFFLE W/ POCKETS	1	32	5.6	0.60	178	28	0	15	0	40	30	15
STEP/BEDROCK	1	3	2.8	0.01	7	0	5	0	0	0	0	95
STEP/COBBLE	3	24	3.2	0.08	83	36	13	27	18	20	22	0
Total:	58	2,264	8.1	0.39	21,025	2,544	Avg: 15	13	16	24	22	10

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	19	490	13.1	0.84	8,487	40.37%	272	3.2
Glides	0	0			0	0.00%	0	0.0
Riffles	12	486	5.0	0.21	2,920	13.89%	569	19.5
Rapids	16	1,026	7.9	0.23	8,750	41.62%	1,620	18.5
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	4	27	3.1	0.07	90	0.43%	36	40.0
Dry	7	235	3.0	0.04	778	3.70%	47	6.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	19	8.4	11.2
Pools >=1m deep:	8	3.5	4.7
Complex pools (LWD pieces>=3):	1	0.4	0.6
Pool frequency (channel widths/pool):	7.9		
Residual pool depth (avg):	0.65		

OREGON DEPARTMENT OF FISH AND WILDLIFE

MOSBY CREEK

HABITAT INVENTORY

Report Date: 11/10/2008

Survey Date:

7/17/2008

REACH 21

T23S-R01W-S30NW

REACH 21

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	Cbl	Bldr	Bdrk
DRY CHANNEL	1	66	3.5	0.00	232	40	0	10	5	25	60	0
POOL-LATERAL SCOUR	5	107	6.9	0.83	794	90	6	12	29	21	20	12
RAPID/BOULDERS	9	800	8.5	0.23	6,432	1,580	0	9	18	28	41	3
RIFFLE	5	191	5.1	0.16	1,034	395	4	10	30	30	26	0
STEP/BOULDERS	2	11	8.0	0.15	94	84	0	3	8	18	73	0
STEP/COBBLE	1	4	6.5	0.20	26	95	0	5	14	41	32	9
Total:	23	1,179	7.1	0.33	8,612	2,284	Avg: 2	9	21	27	36	4

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	5	107	6.9	0.83	794	9.21%	90	11.3
Glides	0	0			0	0.00%	0	0.0
Riffles	5	191	5.1	0.16	1,034	12.01%	395	38.2
Rapids	9	800	8.5	0.23	6,432	74.68%	1,580	24.6
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	3	15	7.5	0.17	120	1.40%	179	148.8
Dry	1	66	3.5	0.00	232	2.70%	40	17.2
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	5	4.2	4.8
Pools >=1m deep:	3	2.5	2.9
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	18.6		
Residual pool depth (avg):	0.65		

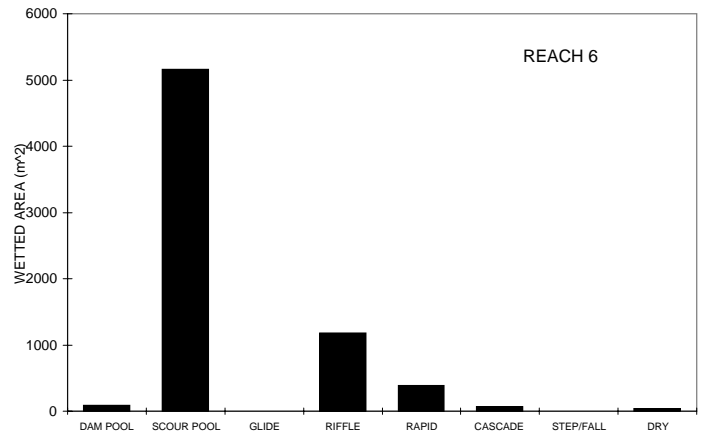
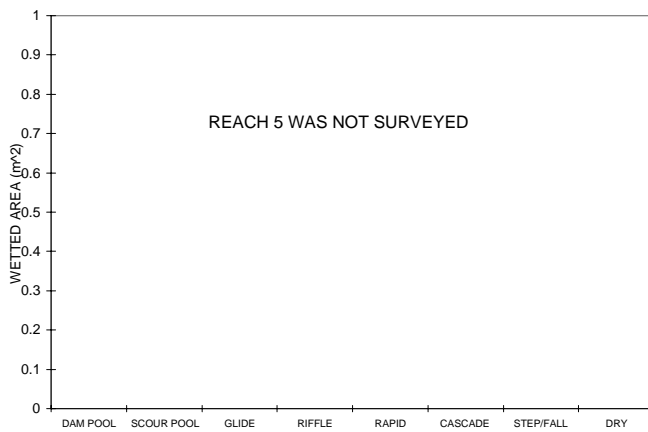
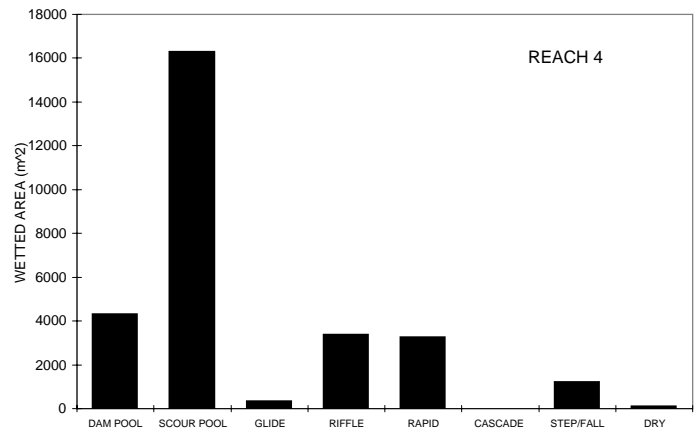
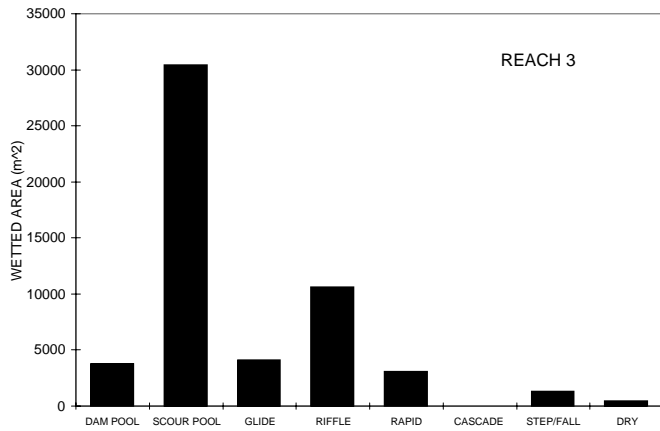
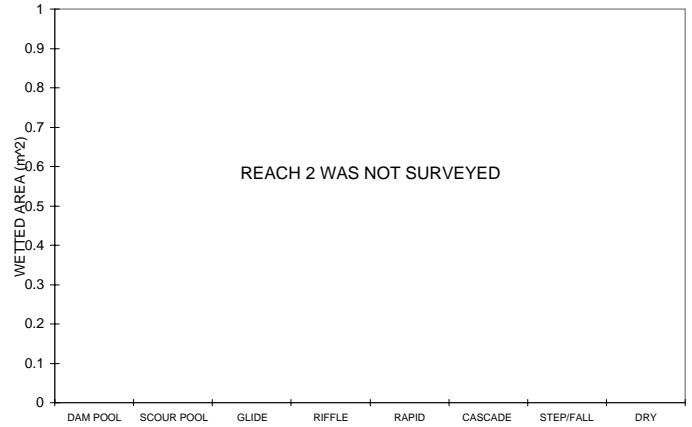
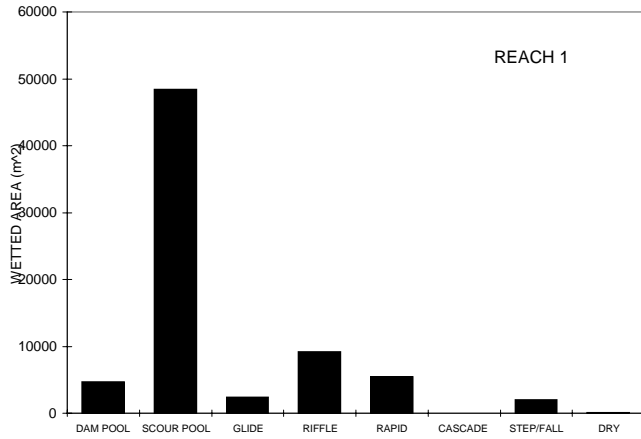
STREAM SUMMARY

MOSBY CREEK

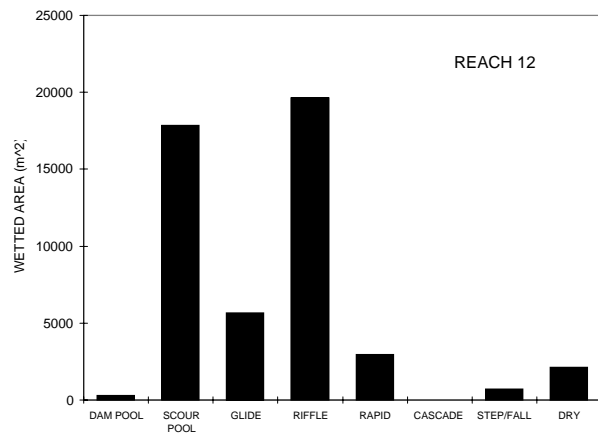
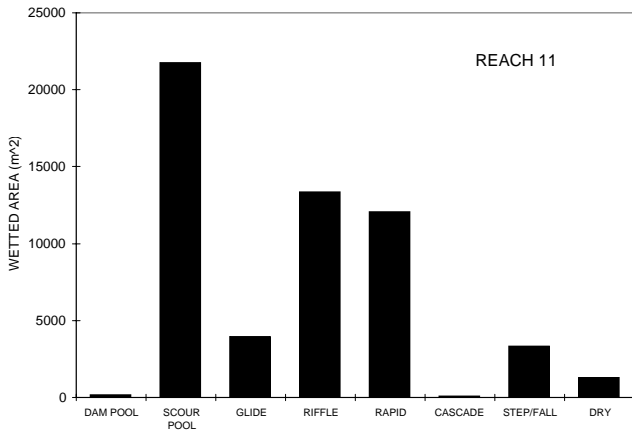
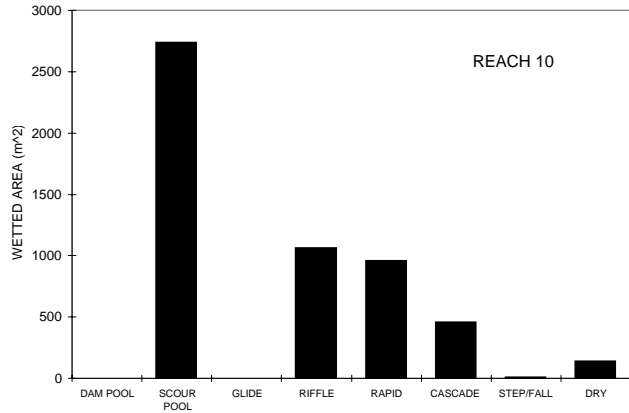
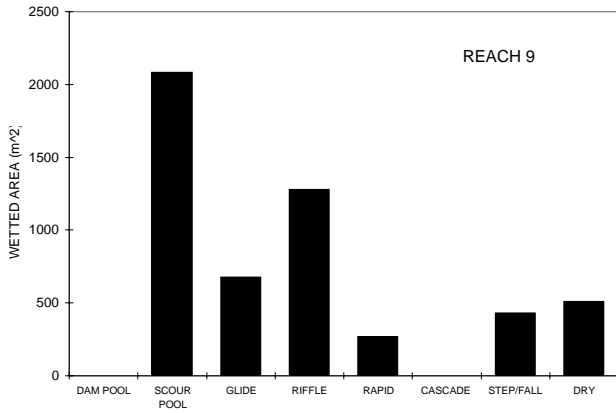
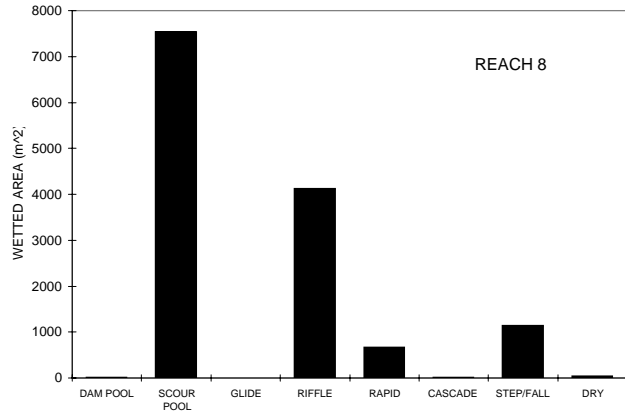
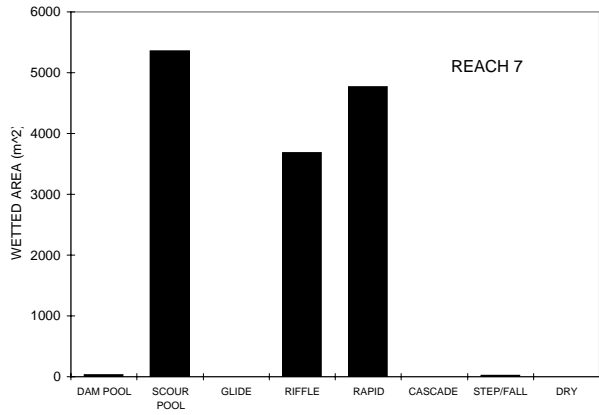
Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
1106	44,556	9.0	0.51	482,575	6	12	20	29	14	20	26,136

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	13,696	2.84%
Scour Pools	232,725	48.23%
Glides	19,648	4.07%
Riffles	108,622	22.51%
Rapids	80,925	16.77%
Cascades	2,869	0.59%
Step/Falls	14,139	2.93%
Dry	9,919	2.06%
Culverts	0	0.00%

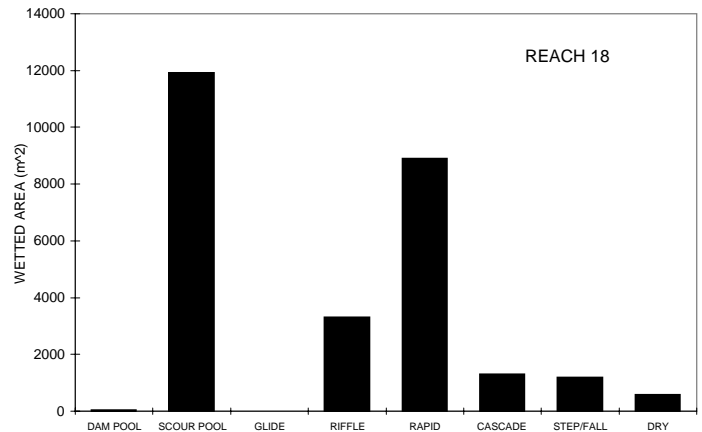
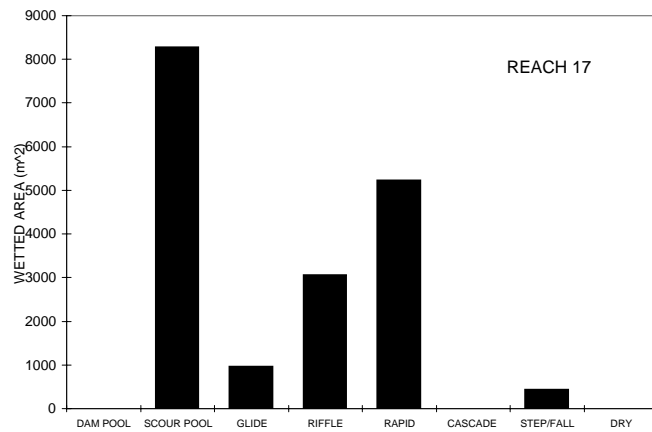
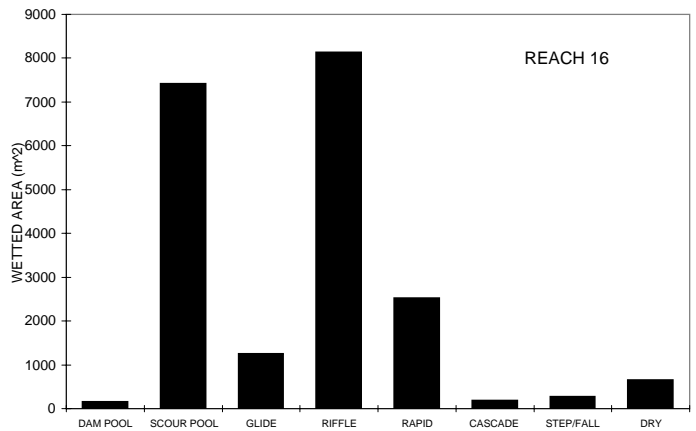
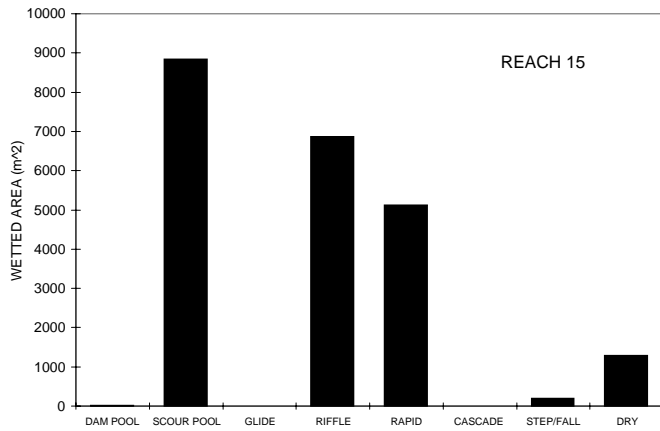
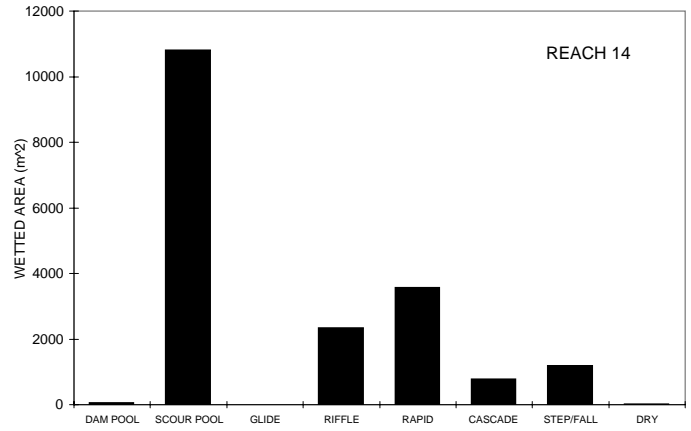
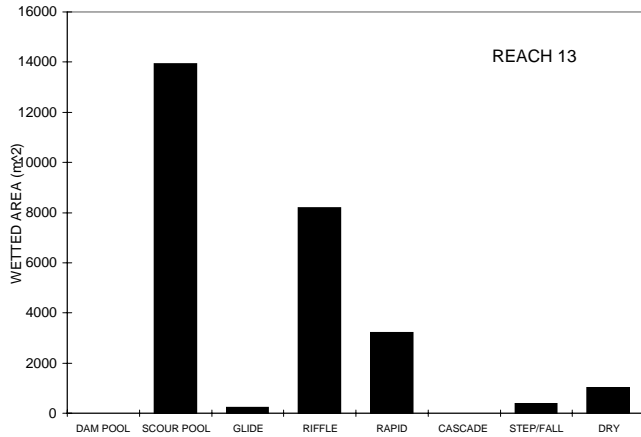
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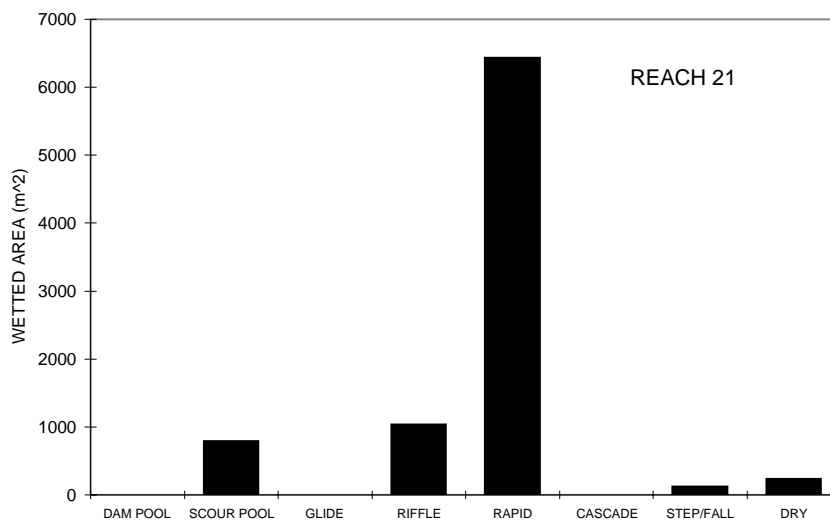
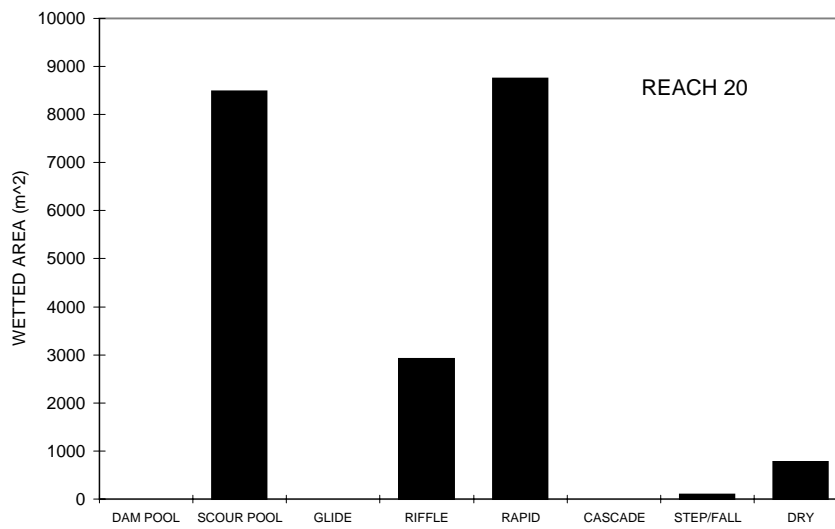
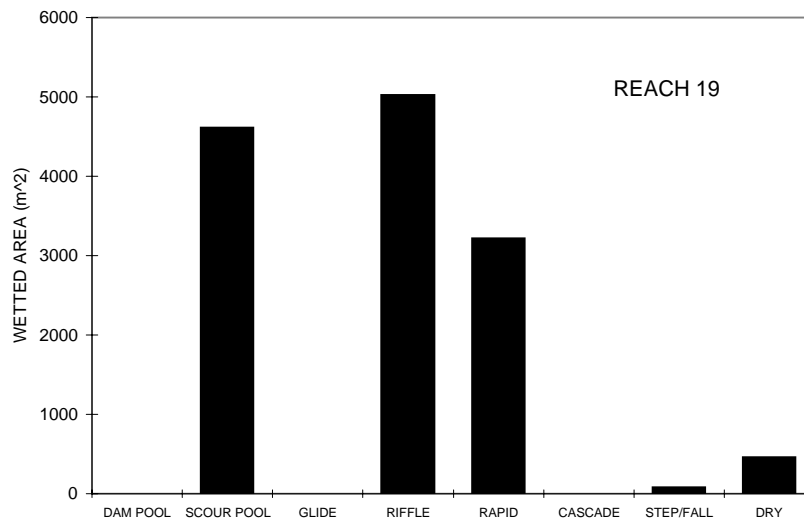
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MOSBY CREEK (COAST FORK WILLAMETTE BASIN) 2008 SUMMER HABITAT DISTRIBUTION



MOSBY CREEK (COAST FORK WILLAMETTE BASIN) 2008 SUMMER HABITAT DISTRIBUTION



RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

REACH 1

Summary of Riparian Zone (0-30m) 4 transects

Total hardwoods/1000	411
Total conifers/1000 ft	229
Total conifers >20" dbh/1000 ft	15
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	1.5	0.3	0.8	0.3	0.8	0.5	3.0
15-30cm	0.3	1.8	0.3	2.0	1.5	0.0	2.0	3.8
30-50cm	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
50-90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.3	3.3	0.8	2.8	2.8	0.8	1.3	2.3

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	43	47	31
Shrub cover	28	46	31
Grass/forb cover	59	33	62

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	13	13	13
High terrace	88	88	75
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	13
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	34	17	15

RIPARIAN ZONE VEGETATION SUMMARY

REACH 3

REACH 3

Summary of Riparian Zone (0-30m) 5 transects

Total hardwoods/1000	439
Total conifers/1000 ft	256
Total conifers >20" dbh/1000 ft	0
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	2.2	0.6	1.2	0.6	1.4	1.2	4.8
15-30cm	0.6	1.4	0.6	0.4	0.8	0.4	2.0	2.2
30-50cm	0.4	0.0	0.4	0.0	0.2	0.0	1.0	0.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Total/100m2	1.0	3.8	1.6	1.6	1.6	1.8	1.4	2.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	68		50		29	
Shrub cover	55		25		25	
Grass/forb cover	25		29		53	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	90		60		80	
Low terrace	10		10		10	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		30		10	
Riprap	0		0		0	
Surface slope (%)	27		6		3	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 4

REACH 4

Summary of Riparian Zone (0-30m)

2 transects

Total hardwoods/1000	152
Total conifers/1000 ft	640
Total conifers >20" dbh/1000 ft	0
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	1.0	2.0	2.0	0.0	4.0	0.5	7.0	2.5
15-30cm	0.5	0.0	0.0	0.0	1.5	0.0	2.0	0.0
30-50cm	0.5	0.0	1.0	0.0	0.0	0.0	1.5	0.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	2.0	2.0	3.0	0.0	5.5	0.5	3.5	0.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	46		25		33	
Shrub cover	49		66		29	
Grass/forb cover	28		21		21	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	25		25		0	
High terrace	50		75		75	
Low terrace	25		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		25	
Riprap	0		0		0	
Surface slope (%)	47		13		0	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 6

REACH 6

Summary of Riparian Zone (0-30m) 2 transects

Total hardwoods/1000	853
Total conifers/1000 ft	640
Total conifers >20" dbh/1000 ft	0
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	1.0	5.0	0.5	5.0	5.5	1.5	7.0	11.5
15-30cm	1.0	1.5	0.0	0.5	2.5	0.5	3.5	2.5
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	2.0	6.5	0.5	5.5	8.0	2.0	3.5	4.7

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	51	50	50
Shrub cover	45	20	25
Grass/forb cover	28	51	40

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	0	0	0
High terrace	100	100	100
Low terrace	0	0	0
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 (%)	41	0	1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 8

REACH 8

Summary of Riparian Zone (0-30m)

3 transects

Total hardwoods/1000	1077
Total conifers/1000 ft	630
Total conifers >20" dbh/1000 ft	142
Total conifers >35" dbh/1000 ft	20

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	5.7	0.0	5.7	0.3	2.7	0.3	14.0
15-30cm	1.0	1.0	0.3	2.3	1.3	0.0	2.7	3.3
30-50cm	2.0	0.3	1.7	0.0	1.3	0.0	5.0	0.3
50-90cm	0.3	0.0	0.7	0.0	1.0	0.0	2.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0
Total/100m2	3.3	7.0	2.7	8.0	4.3	2.7	3.4	5.9

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	61	60	68
Shrub cover	31	13	27
Grass/forb cover	38	51	38

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	33	17	100
High terrace	50	33	0
Low terrace	17	17	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	33	0
Riprap	0	0	0
Surface slope (%)	26	5	34

RIPARIAN ZONE VEGETATION SUMMARY

REACH 10

REACH 10

Summary of Riparian Zone (0-30m) 1 transects

Total hardwoods/1000	488
Total conifers/1000 ft	61
Total conifers >20" dbh/1000 ft	61
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	0.0	0.0	2.0	0.0	0.0	0.0	2.0
15-30cm	0.0	1.0	0.0	1.0	0.0	0.0	0.0	2.0
30-50cm	0.0	2.0	0.0	1.0	0.0	0.0	0.0	3.0
50-90cm	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	1.0	4.0	0.0	4.0	0.0	0.0	0.3	2.7

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	65	58	23
Shrub cover	20	30	30
Grass/forb cover	50	23	15

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	50	100	50
High terrace	50	0	0
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	50
Riprap	0	0	0
Surface slope (%)	8	60	45

RIPARIAN ZONE VEGETATION SUMMARY

REACH 11

REACH 11

Summary of Riparian Zone (0-30m) 7 transects

Total hardwoods/1000	1376
Total conifers/1000 ft	671
Total conifers >20" dbh/1000 ft	70
Total conifers >35" dbh/1000 ft	17

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.4	5.3	0.9	3.7	1.3	5.1	2.6	14.1
15-30cm	0.7	1.6	2.3	3.1	2.3	1.7	5.3	6.4
30-50cm	0.7	0.4	0.4	1.0	0.9	0.4	2.0	1.9
50-90cm	0.3	0.1	0.1	0.0	0.4	0.0	0.9	0.1
>90cm	0.1	0.0	0.0	0.0	0.1	0.0	0.3	0.0
Total/100m2	2.3	7.4	3.7	7.9	5.0	7.3	3.7	7.5

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	67		68		62	
Shrub cover	34		33		19	
Grass/forb cover	51		43		40	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	29		36		36	
High terrace	36		36		50	
Low terrace	36		21		7	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		7		7	
Riprap	0		0		0	
Surface slope (%)	23		23		25	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 12

REACH 12

Summary of Riparian Zone (0-30m) 5 transects

Total hardwoods/1000	1268
Total conifers/1000 ft	293
Total conifers >20" dbh/1000 ft	73
Total conifers >35" dbh/1000 ft	37

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	0.8	3.4	0.2	2.4	0.0	6.0	1.0	11.8
15-30cm	0.8	2.6	0.0	1.2	1.0	2.0	1.8	5.8
30-50cm	0.0	0.2	0.2	2.0	0.6	0.4	0.8	2.6
50-90cm	0.4	0.0	0.2	0.2	0.0	0.2	0.6	0.4
>90cm	0.4	0.0	0.0	0.2	0.2	0.0	0.6	0.2
Total/100m2	2.4	6.2	0.6	6.0	1.8	8.6	1.6	6.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)	(%)	(%)	(%)	(%)	(%)
Canopy closure	65		66		65	
Shrub cover	27		16		22	
Grass/forb cover	51		52		52	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)	(%)	(%)	(%)	(%)	(%)
Hillslope	20		20		30	
High terrace	40		50		60	
Low terrace	40		20		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		10		10	
Riprap	0		0		0	
Surface slope (%)	7		5		7	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 13

REACH 13

Summary of Riparian Zone (0-30m)

3 transects

Total hardwoods/1000	508
Total conifers/1000 ft	1300
Total conifers >20" dbh/1000 ft	142
Total conifers >35" dbh/1000 ft	81

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	1.7	1.0	2.7	3.7	1.3	0.7	5.7	5.3
15-30cm	2.0	1.7	4.0	0.0	3.0	0.7	9.0	2.3
30-50cm	2.0	0.0	1.7	0.0	0.7	0.0	4.3	0.0
50-90cm	0.3	0.0	0.7	0.7	0.0	0.0	1.0	0.7
>90cm	0.3	0.0	0.3	0.0	0.7	0.0	1.3	0.0
Total/100m2	6.3	2.7	9.3	4.3	5.7	1.3	7.1	2.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	83		81		64	
Shrub cover	36		37		31	
Grass/forb cover	33		23		37	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	100		100		83	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		17	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	30		15		3	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 14

REACH 14

Summary of Riparian Zone (0-30m) 2 transects

Total hardwoods/1000	671
Total conifers/1000 ft	1097
Total conifers >20" dbh/1000 ft	122
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	3.0	0.0	3.5	2.5	0.0	2.5	6.5
15-30cm	2.0	2.0	2.5	0.5	4.0	1.5	8.5	4.0
30-50cm	2.0	0.0	1.5	0.5	1.5	0.0	5.0	0.5
50-90cm	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	4.0	5.0	4.0	4.5	10.0	1.5	6.0	3.7

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	59		70		75	
Shrub cover	41		29		33	
Grass/forb cover	39		41		28	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	25		25		25	
High terrace	50		50		75	
Low terrace	25		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		25		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	18		14		15	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 16

REACH 16

Summary of Riparian Zone (0-30m) 2 transects

Total hardwoods/1000	1554
Total conifers/1000 ft	457
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	7.5	0.5	8.0	0.0	3.5	0.5	19.0
15-30cm	0.5	1.0	0.0	0.5	4.5	3.0	5.0	4.5
30-50cm	0.5	0.5	0.5	0.0	0.0	1.5	1.0	2.0
50-90cm	0.5	0.0	0.5	0.0	0.0	0.0	1.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	1.5	9.0	1.5	8.5	4.5	8.0	2.5	8.5

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	81		70		59	
Shrub cover	36		28		23	
Grass/forb cover	53		53		43	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	75		100		100	
Low terrace	25		0		0	
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 (%)	6		8		0	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 17

REACH 17

Summary of Riparian Zone (0-30m) 1 transects

Total hardwoods/1000	1463
Total conifers/1000 ft	732
Total conifers >20" dbh/1000 ft	122
Total conifers >35" dbh/1000 ft	61

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	7.0	0.0	12.0	0.0	3.0	0.0	22.0
15-30cm	1.0	2.0	1.0	0.0	5.0	0.0	7.0	2.0
30-50cm	0.0	0.0	1.0	0.0	2.0	0.0	3.0	0.0
50-90cm	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
>90cm	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Total/100m2	2.0	9.0	2.0	12.0	8.0	3.0	4.0	8.0

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	83		83		83	
Shrub cover	18		30		25	
Grass/forb cover	63		45		60	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	50		50		50	
High terrace	50		50		50	
Low terrace	0		0		0	
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 (%)	53		38		35	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 18

REACH 18

Summary of Riparian Zone (0-30m) 4 transects

Total hardwoods/1000	1311
Total conifers/1000 ft	869
Total conifers >20" dbh/1000 ft	76
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.8	5.5	1.8	2.3	1.3	5.0	3.8	12.8
15-30cm	1.8	5.8	2.0	1.8	3.0	0.8	6.8	8.3
30-50cm	0.3	0.3	0.5	0.0	1.8	0.3	2.5	0.5
50-90cm	0.8	0.0	0.0	0.0	0.5	0.0	1.3	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	3.5	11.5	4.3	4.0	6.5	6.0	4.8	7.2

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	70		73		73	
Shrub cover	30		30		23	
Grass/forb cover	48		46		46	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	13		13		25	
High terrace	75		75		75	
Low terrace	13		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		13		0	
Riprap	0		0		0	
Surface slope (%)	14		5		6	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 19

REACH 19

Summary of Riparian Zone (0-30m)

2 transects

Total hardwoods/1000	1859
Total conifers/1000 ft	396
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	2.5	0.0	0.5	0.0	4.0	0.0	7.0
15-30cm	3.5	9.5	0.5	8.0	1.0	1.0	5.0	18.5
30-50cm	0.0	2.0	0.0	2.5	0.5	0.5	0.5	5.0
50-90cm	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	3.5	14.0	1.5	11.0	1.5	5.5	2.2	10.2

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	85		76		79	
Shrub cover	21		18		16	
Grass/forb cover	51		51		59	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	25		0		25	
High terrace	50		50		50	
Low terrace	25		25		25	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		25		0	
Riprap	0		0		0	
Surface slope (%)	13		0		11	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 20

REACH 20

Summary of Riparian Zone (0-30m)

2 transects

Total hardwoods/1000	1981
Total conifers/1000 ft	610
Total conifers >20" dbh/1000 ft	91
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.5	6.5	0.5	6.5	1.0	2.5	2.0	15.5
15-30cm	0.5	8.5	1.5	5.5	2.0	3.0	4.0	17.0
30-50cm	0.5	0.0	0.5	0.0	1.5	0.0	2.5	0.0
50-90cm	0.5	0.0	0.5	0.0	0.5	0.0	1.5	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	2.0	15.0	3.0	12.0	5.0	5.5	3.3	10.8

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	85		80		68	
Shrub cover	19		13		3	
Grass/forb cover	64		69		61	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	25		25		50	
High terrace	50		50		25	
Low terrace	25		25		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		25	
Riprap	0		0		0	
Surface slope (%)	13		6		12	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 21

REACH 21

Summary of Riparian Zone (0-30m) 1 transects

Total hardwoods/1000	975
Total conifers/1000 ft	1097
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	2.0	0.0	3.0	0.0	1.0	0.0	6.0	0.0
15-30cm	3.0	5.0	7.0	3.0	2.0	3.0	12.0	11.0
30-50cm	0.0	1.0	0.0	2.0	0.0	2.0	0.0	5.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	5.0	6.0	10.0	5.0	3.0	5.0	6.0	5.3

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	85		85		53	
Shrub cover	13		25		0	
Grass/forb cover	65		45		45	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	50		50		0	
High terrace	50		50		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		50	
Riprap	0		0		0	
Surface slope (%)	22		33		14	

Summary of Riparian Zone (0-30m) for all reaches**46 transects****Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	1019
Total conifers/1000 ft	591
Total conifers >20" dbh/1000 ft	64
Total conifers >35" dbh/1000 ft	15

Average number of trees in a 5-m wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	2.3	9.8
15-30cm	4.4	5.6
30-50cm	1.9	1.1
50-90cm	0.8	0.1
>90cm	0.2	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
3	LF	1	HT	0	5	20	65	Conifer							SHRUBS OVER HEAD,
								Hardwood							5% BARE
3	LF	2	HT	10	85	95	0	Conifer							BARE 5%
								Hardwood							
3	LF	3	TC	0	0	5		Conifer							ROW RIVER
								Hardwood							95%
3	RT	1	HT	0	35	15	80	Conifer							BARE 5%
								Hardwood		1					
3	RT	2	HT	0	80	65	30	Conifer						0	ESTIMATED,
								Hardwood	1	1					BARE 5%
3	RT	3	HT	0	80	70	25	Conifer							ESTIMATED,
								Hardwood	1						BARE 5%
33	LF	1	HT	75	50	45	30	Conifer							100%
								Hardwood	2						TRANSITION,
33	LF	2	HT	75	70	25	40	Conifer	1						EST.
								Hardwood	2	7					ESTIMATED
33	LF	3	HT	75	70	25	45	Conifer	1	3					DUE TO
								Hardwood	1	0					STEEPNESS
33	RT	1	HT	40	70	5	85	Conifer			1	0			BARE 30%
								Hardwood							100%
33	RT	2	HT	0	60	0	65	Conifer						1	TRANSITION
								Hardwood							BARE 35%
33	RT	3	HT	0	90	0	85	Conifer			3	3			BARE 15%
								Hardwood							
63	LF	1	HT	58	85	35	60	Conifer							BARE 5%
								Hardwood	1	3					
63	LF	2	HT	0	10	25	65	Conifer			1				BARE 10%
								Hardwood							
63	LF	3	HT	0	0	0	100	Conifer							
								Hardwood							
63	RT	1	HT	55	70	50	35	Conifer							BARE 15%
								Hardwood	2						
63	RT	2	HT	20	65	75	10	Conifer							BARE 15%
								Hardwood							
63	RT	3	HT	0	10	25	75	Conifer				1	0		
								Hardwood	1						
70	LF	1	HS	45	5	10	85	Conifer							BARE 5%
								Hardwood	1						

70	LF	2	HS	30	0	55	40	Conifer		BARE 5%
								Hardwood		
70	LF	3	HS	45	0	95	10	Conifer		
								Hardwood		
70	RT	1	HT	0	20	40	35	Conifer		100%
								Hardwood	3	TRANSITION
70	RT	2	HT	0	5	30	10	Conifer		BARE 60%
								Hardwood		
70	RT	3	HT	0	0		95	Conifer		BARE 5%
								Hardwood		

RIPARIAN ZONE VEGETATION

Reach 3

Reach 3

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
83	LF	1	HT	35	80	45	15	Conifer			1			100% TRANSITION
								Hardwood	1					
83	LF	2	HT	0	10	25	50	Conifer						ESTIMATED, 25% BARE
								Hardwood						
83	LF	3	HT	0	5	20	75	Conifer						BARE 5%
								Hardwood						
83	RT	1	HT	5	80	65	5	Conifer						30% BARE
								Hardwood	3					
83	RT	2	HT	0	95	5	0	Conifer			1			BARE 95%
								Hardwood						
83	RT	3	HT	5	60	85	10	Conifer	1					BARE 5%
								Hardwood	2					
101	LF	1	HT	11	5	50	40	Conifer						BARE 10%
								Hardwood						
101	LF	2	HT	0	85	20	5	Conifer						
								Hardwood	1	2				
101	LF	3	HT	23	60	40	40	Conifer	1					BARE 20%
								Hardwood	4	1				
101	RT	1	LT	5	85	35	65	Conifer						
								Hardwood	3	5				
101	RT	2	LT	3	55	75	15	Conifer						
								Hardwood	3					
101	RT	3	LT	1	5	35	50	Conifer						BARE 15%
								Hardwood						
122	LF	1	HT	40	40	60	25	Conifer						100% TRANSITION
								Hardwood		1			1	
122	LF	2	RB	0	5	25	25	Conifer						50% PAVED
								Hardwood						
122	LF	3	HT	0	0	0	95	Conifer						BARE 5%
								Hardwood						
122	RT	1	HT	53	60	70	20	Conifer						100% TRANSITION
								Hardwood	1					
122	RT	2	RB	0	25	5	25	Conifer						70% PAVED
								Hardwood	1					
122	RT	3	HT	0	40	5	70	Conifer			2			BARE 25%
								Hardwood	1	1				
141	LF	1	HT	20	85	85	5	Conifer						BARE 10%
								Hardwood						

141	LF	2	HT	45	85	60	25	Conifer	2	1	BARE 15%	
								Hardwood				
141	LF	3	RB	0	25	0	15	Conifer	1	1	PAVED 85%	
								Hardwood				
141	RT	1	HT	22	80	75	5	Conifer		1	0	BARE 20%
								Hardwood	1			
141	RT	2	HT	11	45	15	80	Conifer	1			BARE 5%
								Hardwood	1			
141	RT	3	HT	4	15	30	70	Conifer	1			
								Hardwood				
159	LF	1	HT	45	85	45	20	Conifer		3		100% TRANSITION
								Hardwood	2	1		
159	LF	2	RB	0	15	20	5	Conifer				PAVED 75%
								Hardwood				
159	LF	3	HT	0	5	10	40	Conifer				PAVED 50%
								Hardwood				
159	RT	1	HT	35	80	15	45	Conifer				BARE 40%, TRANSITION
								Hardwood				
159	RT	2	HT	0	75	0	55	Conifer	2	1		BARE 45%
								Hardwood				
159	RT	3	HT	0	75	25	60	Conifer		1		BARE 15%
								Hardwood				

RIPARIAN ZONE VEGETATION

Reach 4

Reach 4

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
181	LF	1	LT	2	50	50	0	Conifer							BARE 50%
								Hardwood							
181	LF	2	HT	15	5	65	5	Conifer							BARE 30%
								Hardwood							
181	LF	3	HT	0	0	5	5	Conifer							BARE 90%
								Hardwood							
181	RT	1	HT	70	0	45	45	Conifer							100% TRANSITION
								Hardwood							
181	RT	2	HT	0	25	95	5	Conifer							
								Hardwood							
181	RT	3	HT	0	45	95	5	Conifer							
								Hardwood	1						
201	LF	1	HS	70	50	65	10	Conifer							BARE 25%
								Hardwood	3						
201	LF	2	HS	35	0	85	10	Conifer							BARE 5%
								Hardwood							
201	LF	3	RB	0	0	0	15	Conifer							PAVED 85%
								Hardwood							
201	RT	1	HT	44	85	35	55	Conifer	2	1	1				BARE 10%
								Hardwood	1						
201	RT	2	HT	0	70	20	65	Conifer	4		2				BARE 15%
								Hardwood							
201	RT	3	HT	0	85	15	60	Conifer	8	3					BARE 75%
								Hardwood							

RIPARIAN ZONE VEGETATION

Reach 6

Reach 6

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
208	LF	1	HT	20	5	25	60	Conifer							BARE 15%
								Hardwood							
208	LF	2	HT	0	75	15	75	Conifer							BARE 10%
								Hardwood	2						
208	LF	3	HT	4	45	75	20	Conifer	4	2					BARE 5%
								Hardwood	1						
208	RT	1	HT	38	95	65	5	Conifer	1	2					BARE 30%
								Hardwood	2						
208	RT	2	HT	0	50	45	50	Conifer	1						BARE 5%
								Hardwood	2						
208	RT	3	HT	0	90	15	30	Conifer	6	3					BARE 55%
								Hardwood							
216	LF	1	HT	26	90	15	30	Conifer	1						100% TRANSITION
								Hardwood	8	3					
216	LF	2	HT	0	75	15	45	Conifer							BARE 40%
								Hardwood	6	1					
216	LF	3	HT	0	65	5	75	Conifer	1						
								Hardwood	2	1					
216	RT	1	HT	80	15	75	15	Conifer							100% TRANSITION, EST
								Hardwood							
216	RT	2	HT	0	0	5	35	Conifer							EST DUE TO STEEPNESS, BARE 60%
								Hardwood							
216	RT	3	HT	0	0	5	35	Conifer							EST, BARE 60%
								Hardwood							

RIPARIAN ZONE VEGETATION

Reach 8

Reach 8

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
234	LF	1	HS	60	50	10	40	Conifer							50% GROUND
								Hardwood	2	2					
234	LF	2	RB	0	60	10	50	Conifer		1	2	1			40% ROADBED
								Hardwood	1	1					
234	LF	3	HS	20	65	40	50	Conifer							
								Hardwood	3						
234	RT	1	HT	25	60	15	45	Conifer		1	2				TRANSITION ZONE, 40% DIRT
								Hardwood							
234	RT	2	RB	0	30	5	70	Conifer							25% ROADBED
								Hardwood		2					
234	RT	3	HS	45	65	10	60	Conifer							30% BARE
								Hardwood	1						
260	LF	1	LT	20	55	15	65	Conifer							TRANSITION, 20% BARE
								Hardwood	2						
260	LF	2	LT	0	60	30	60	Conifer							10% DIRT
								Hardwood	11						
260	LF	3	HS	10	85	10	50	Conifer			3	3	1		40% DIRT
								Hardwood	2						
260	RT	1	HT	15	65	70	20	Conifer					1		TRANSITION, 10% BARE
								Hardwood	9						
260	RT	2	HT	0	70	20	60	Conifer							20% BARE
								Hardwood	5	4					
260	RT	3	HS	28	45	80	10	Conifer							10% ROADBED
								Hardwood	2						
268	LF	1	HS	35	75	65	15	Conifer			1	1			20% BARE GROUND
								Hardwood	4	1	1				
268	LF	2	HS	30	70	6	15	Conifer							25% BARE GROUND
								Hardwood							
268	LF	3	HS	80	70	6	10	Conifer	0	1				1	30% BARE GROUND
								Hardwood							
268	RT	1	HT	0	60	10	45	Conifer			1	3			45% GROUND
								Hardwood							
268	RT	2	HT	0	70	5	50	Conifer				3	1		45% GROUND
								Hardwood							
268	RT	3	HS	18	75	15	50	Conifer	1		1	2			35% BARE GROUND
								Hardwood							

RIPARIAN ZONE VEGETATION

Reach 10

Reach 10

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
288	LF	1	HS	15	70	15	60	Conifer				1		25% GRAVEL
								Hardwood		1	2	1		
288	LF	2	HS	90	40	50	15	Conifer						35% DIRT
								Hardwood						
288	LF	3	HS	90	25	50	10	Conifer						40% DIRT
								Hardwood						
288	RT	1	HT	0	60	25	40	Conifer						35% GRAVEL
								Hardwood						
288	RT	2	HS	30	75	10	30	Conifer						ESTIMATED, 50% ROAD, 10% DIRT
								Hardwood	2	1	1			
288	RT	3	RB	0	20	10	20	Conifer						ESTIMATED
								Hardwood						70% ROAD

RIPARIAN ZONE VEGETATION

Reach 11

Reach 11

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
301	LF	1	HT	0	75	10	75	Conifer			2	1	1	15% BARE GROUND
								Hardwood						
301	LF	2	HT	7	75	20	65	Conifer						15% BARE GROUND
								Hardwood						
301	LF	3	HT	8	75	20	60	Conifer			3	2		20% DIRT
								Hardwood						
301	RT	1	HT	29	60	10	80	Conifer						TRANSITION, 10% DIRT
								Hardwood						
301	RT	2	RB	0	30	0	10	Conifer						90% ROAD
								Hardwood						
301	RT	3	HT	2	80	0	20	Conifer	3	3				80% BARE GROUND
								Hardwood		2				
309	LF	1	HT	7	70	60	70	Conifer						20% BARE GROUND
								Hardwood	13	1				
309	LF	2	HT	6	80	10	50	Conifer		4		1		VERY LARGE STUMP, 40% BARE
								Hardwood	2	1				55% BARE
309	LF	3	HT	5	90	5	40	Conifer	2		1			
								Hardwood	4					
309	RT	1	HT	3	70	5	70	Conifer	1		1			25% BARE
								Hardwood	2					
309	RT	2	HS	12	75	10	60	Conifer	2		1			30% BARE
								Hardwood	2					
309	RT	3	HS	12	85	5	30	Conifer	3	2			1	65% BARE
								Hardwood	4					
327	LF	1	HS	55	80	30	40	Conifer		1	1	1		30% BARE
								Hardwood	2					
327	LF	2	HS	63	80	35	45	Conifer						20% BARE
								Hardwood	2					
327	LF	3	HS	55	85	10	60	Conifer						30% BARE
								Hardwood	3					
327	RT	1	HT	8	80	10	80	Conifer		1				10% BARE
								Hardwood				1		
327	RT	2	HT	6	75	20	65	Conifer						15% BARE
								Hardwood	5	6	3			
327	RT	3	HT	5	75	60	25	Conifer						15% BARE
								Hardwood	19	2				
357	LF	1	HS	55	80	60	10	Conifer	1					30% BARE
								Hardwood	5	1				

357	LF	2	HS	65	80	30	40	Conifer		1	0		30% BARE, EST. TO STEEP SLOPE
								Hardwood	3				
357	LF	3	HS	65	80	20	50	Conifer	1	1			30% BARE, ESTIMATED
								Hardwood	2				
357	RT	1	LT	12	70	5	75	Conifer					20% BARE
								Hardwood	13				
357	RT	2	LT	22	65	30	40	Conifer		2			30% BARE, HT AND LT IN ZONE
								Hardwood	7				
357	RT	3	RB	2	15	0	15	Conifer					85% ROAD
								Hardwood					
384	LF	1	LT	12	60	25	25	Conifer					50% BARE
								Hardwood	2				
384	LF	2	HT	4	80	40	30	Conifer		5			30% BARE
								Hardwood	5				
384	LF	3	HT	3	80	30	15	Conifer		7			45% BARE
								Hardwood	2				
384	RT	1	LT	2	60	60	15	Conifer					25% BARE
								Hardwood	0	2	1		
384	RT	2	LT	5	70	85	15	Conifer					
								Hardwood	9	1			
384	RT	3	LT	70	80	20		Conifer					
								Hardwood	4	2			
426	LF	1	LT	12	60	80	10	Conifer	1	1	1		BARE 10%
								Hardwood					
426	LF	2	LT	5	20	90	10	Conifer	4				
								Hardwood					
426	LF	3	HT	2	5	45	25	Conifer					ROADBED 30%
								Hardwood					
426	RT	1	LT	8	20	65	30	Conifer					5% BARE
								Hardwood	2				
426	RT	2	HT	5	60	45	30	Conifer					25% BARE
								Hardwood	2	2			
426	RT	3	HT	3	20	25	25	Conifer		1	1		50% ROADBED
								Hardwood					
454	LF	1	HS	80	85	10	80	Conifer					ESTIMATED ALL ZONES DUE TO STEEP SLOPES
								Hardwood	3	2			
454	LF	2	HS	70	85	15	80	Conifer	2	1			
								Hardwood					
454	LF	3	HS	60	8	10	80	Conifer	2	1			BARE 10%
								Hardwood					
454	RT	1	HS	40	65	40	50	Conifer	2				10% BARE
								Hardwood	2				
454	RT	2	HS	50	75	35	55	Conifer	2	1			10% BARE
								Hardwood	4	1			
454	RT	3	HS	52	85	10	75	Conifer	1				15% BARE
								Hardwood	2	4	1		

RIPARIAN ZONE VEGETATION

Reach 12

Reach 12

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
481	LF	1	LT	7	55	50	35	Conifer							15% BARE
								Hardwood	2	4					
481	LF	2	HT	6	80	30	50	Conifer							20% BARE
								Hardwood		0	2				
481	LF	3	HS	15	80	30	45	Conifer			1				25% BARE
								Hardwood	1	4					
481	RT	1	HS	21	35	20	70	Conifer							10% BARE
								Hardwood	2	1					
481	RT	2	HS	15	30	5	90	Conifer							5% BARE
								Hardwood							
481	RT	3	HS	12	30	10	80	Conifer			3				10% BARE
								Hardwood							
517	LF	1	HS	15	85	15	75	Conifer					1	1	10% BARE
								Hardwood							
517	LF	2	HS	8	50	15	65	Conifer							20% ROADBED
								Hardwood					1		
517	LF	3	RB	0	5	5	45	Conifer							50% ROADBED
								Hardwood							
517	RT	1	HT	5	75	20	20	Conifer							60% BARE
								Hardwood	3	2	1				
517	RT	2	HT	5	80	40	20	Conifer							40% BARE
								Hardwood	5			1			
517	RT	3	HT	0	50	70	20	Conifer							10% BARE
								Hardwood	5			1			
545	LF	1	LT	3	55	55	30	Conifer							15% BARE
								Hardwood	1						
545	LF	2	LT	5	70	10	90	Conifer							20% TRANSITION
								Hardwood		1	3				
545	LF	3	HT	0	75	15	75	Conifer							10% BARE
								Hardwood	1	4	2				
545	RT	1	LT	3	60	40	50	Conifer							10% BARE
								Hardwood	2						
545	RT	2	LT	10	80	10	80	Conifer							10% BARE
								Hardwood		3	5				
545	RT	3	HT	0	80	5	85	Conifer							10% BARE
								Hardwood	10	2					
582	LF	1	HT	15	80	20	70	Conifer							10% BARE
								Hardwood	2						

582	LF	2	HT	0	85	5	20	Conifer						75% BARE
								Hardwood						
582	LF	3	HT	0	85	10	15	Conifer		1	1			75% BARE
								Hardwood	6					
582	RT	1	HT	0	75	20	40	Conifer						40% BARE
								Hardwood	5	4				
582	RT	2	HT	0	85	10	50	Conifer						40% BARE
								Hardwood	7	2				
582	RT	3	HT	0	85	15	70	Conifer						25% BARE
								Hardwood	4					
590	LF	1	HT	0	50	10	40	Conifer	4	4				50% BARE
								Hardwood						
590	LF	2	RB	2	20	5	10	Conifer						85% ROADBED
								Hardwood						
590	LF	3	HS	35	70	40	50	Conifer		1	1			10% BARE
								Hardwood						
590	RT	1	LT	5	80	20	75	Conifer				1	1	5% BARE
								Hardwood		2				
590	RT	2	HT	0	75	25	45	Conifer	1		1	1		30% BARE
								Hardwood						
590	RT	3	HT	6	90	15	30	Conifer					1	55% BARE
								Hardwood	3					

RIPARIAN ZONE VEGETATION

Reach 13

Reach 13

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
624	LF	1	HT	0	90	15	35	Conifer	1	4				50% BARE
								Hardwood						
624	LF	2	HT	3	85	5	10	Conifer	5	3				85% BARE
								Hardwood						
624	LF	3	HT	6	85	0	35	Conifer	1	6				65% BARE
								Hardwood						
624	RT	1	HT	40	75	0	40	Conifer	2		3			60% BARE
								Hardwood						
624	RT	2	HT	25	70	10	60	Conifer		1	1			30% BARE
								Hardwood	1			2		
624	RT	3	HT	2	40	10	55	Conifer	1	2				45% BARE
								Hardwood						
635	LF	1	HT	0	80	70	15	Conifer						15% BARE
								Hardwood	1	2				
635	LF	2	HT	50	80	75	10	Conifer			1		1	15% BARE
								Hardwood	4					
635	LF	3	HT	5	85	85	15	Conifer	2		2			
								Hardwood						
635	RT	1	HT	70	85	30	40	Conifer	2				1	70% BARE, MOSTLY TRANSITION
								Hardwood						
635	RT	2	HT	10	80	40	10	Conifer		3		2		50% BARE
								Hardwood	1					
635	RT	3	HT	0	80	50	15	Conifer					2	35% BARE
								Hardwood						
652	LF	1	HT	40	85	50	40	Conifer			2			10% BARE
								Hardwood		3				
652	LF	2	HT	0	85	50	10	Conifer	2	3	2			40% BARE
								Hardwood						
652	LF	3	HT	3	20	20	80	Conifer						
								Hardwood						
652	RT	1	HT	30	80	50	30	Conifer		2	1	1		100% TRANSITION
								Hardwood	2					
652	RT	2	HT	1	85	40	40	Conifer	1	2	1			20% BARE
								Hardwood	5					
652	RT	3	TC	0	75	20	20	Conifer		1				60% COBBLE
								Hardwood	2	2				

RIPARIAN ZONE VEGETATION

Reach 14

Reach 14

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
683	LF	1	HS	65	85	30	40	Conifer		3	3				30% BARE
								Hardwood							
683	LF	2	HS	50	85	30	30	Conifer			1	0			40% BARE
								Hardwood							
683	LF	3	HS	50	85	15	5	Conifer	1	4	3	1			80% BARE
								Hardwood							
683	RT	1	HT	0	65	40	10	Conifer		1	1				50% TRANSITION,
								Hardwood							50% ROCK
683	RT	2	HT	0	45	50	30	Conifer		1	1				20% BARE
								Hardwood							
683	RT	3	HT	0	50	30	50	Conifer		1		1			20% BARE
								Hardwood							
707	LF	1	LT	3	40	90	10	Conifer							
								Hardwood	5						
707	LF	2	HT	5	70	25	75	Conifer		4	1				
								Hardwood	7						
707	LF	3	HT	0	85	0	40	Conifer	4	3		1			60% BARE
								Hardwood							
707	RT	1	HT	3	45	5	95	Conifer							
								Hardwood	1	4					
707	RT	2	TC	0	80	10	30	Conifer							60% COBBLE
								Hardwood		1	1				
707	RT	3	HT	10	80	85	15	Conifer					1		
								Hardwood		3					

RIPARIAN ZONE VEGETATION

Reach 16

Reach 16

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
813	LF	1	HT	2	80	75	10	Conifer		1					15% BARE
								Hardwood							
813	LF	2	HT	2	80	65	10	Conifer			1		1		25% BARE
								Hardwood							
813	LF	3	HT	0	7	80	10	Conifer		1					10% BARE
								Hardwood							
813	RT	1	HT	15	85	45	45	Conifer		0	1		1		10% BARE, 100% TRANSITION
								Hardwood	5						20% ROADBED
813	RT	2	HT	14	30	10	70	Conifer	1						20% ROADBED
								Hardwood							
813	RT	3	HT	0	60	0	80	Conifer			4				20% ROADBED
								Hardwood							
837	LF	1	HT	5	80	15	75	Conifer							50% TRANSITION,
								Hardwood	8	1		1			10% BARE
837	LF	2	HT	15	85			Conifer							15% COBBLE IN TRIB
								Hardwood	6	1					CHANNEL
837	LF	3	HT	0	85	0	50	Conifer			1				50% COBBLE IN TRIB
								Hardwood			3		1		CHANNEL
837	RT	1	LT	0	80	10	80	Conifer							10% BARE
								Hardwood	2	1					
837	RT	2	HT	0	85	10	80	Conifer							10% BARE
								Hardwood	10						
837	RT	3	HT	0	85	10	30	Conifer			3				40% BARE
								Hardwood	7	3		2			

RIPARIAN ZONE VEGETATION

Reach 17

Reach 17

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
864	LF	1	HT	25	85	15	55	Conifer		1			1	30% TRANSITION
								Hardwood	4	1				
864	LF	2	HT	0	80	30	40	Conifer		1	1			30% TRANSITION
								Hardwood	10					
864	LF	3	HT	0	80	20	70	Conifer		5	2			10% BARE
								Hardwood						
864	RT	1	HS	80	80	20	70	Conifer						EST. ALL ZONES: STEEP
								Hardwood	3	1				20% BARE
864	RT	2	HS	75	85	30	50	Conifer						
								Hardwood	2					
864	RT	3	HS	70	85	30	50	Conifer					1	20% BARE
								Hardwood	3					

RIPARIAN ZONE VEGETATION

Reach 18

Reach 18

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
890	LF	1	HT	0	65	50	20	Conifer		2					50% TRANSITION,
								Hardwood	4						30% BARE
890	LF	2	HT	10	75	40	35	Conifer	1	2					25% BARE
								Hardwood							
890	LF	3	HT	15	70	30	40	Conifer		1	1	1			30% BARE
								Hardwood	1						
890	RT	1	HS	37	85	10	60	Conifer			1	3			30% BARE
								Hardwood	2	3					
890	RT	2	RB	0	60	5	5	Conifer	4	2					50% ROADBED, 40% BARE
								Hardwood							60% BARE
890	RT	3	HS	17	65	0	40	Conifer		4					
								Hardwood		1					
900	LF	1	HT	45	65	20	60	Conifer							20% BARE
								Hardwood	7	2	1				
900	LF	2	HT	1	70	60	25	Conifer							15% BARE
								Hardwood		1					
900	LF	3	HT	0	85	50	15	Conifer	1		1				35% BARE
								Hardwood	7						
900	RT	1	HT	30	60	20	60	Conifer	1						100% TRANSITION
								Hardwood		2					
900	RT	2	HT	0	65	20	70	Conifer		2					10% BARE
								Hardwood	1	1					
900	RT	3	HT	0	65	10	90	Conifer				2			
								Hardwood							
916	LF	1	HT	0	55	70	20	Conifer							50% TRANSITION,
								Hardwood	8						10% BARE
916	LF	2	HT	0	70	30	60	Conifer			1				10% BARE
								Hardwood	8	1					
916	LF	3	HT	0	85	50	20	Conifer	2		1				30% BARE
								Hardwood	6						
916	RT	1	LT	0	80	0	70	Conifer							30% BARE
								Hardwood		11					
916	RT	2	HT	0	80	20	80	Conifer	2		1				
								Hardwood							
916	RT	3	HT	0	75	10	90	Conifer		2		1			
								Hardwood							
958	LF	1	HT	3	65	65	25	Conifer		2					10% BARE
								Hardwood	1	2					

RIPARIAN ZONE VEGETATION

Reach 19

Reach 19

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
996	LF	1	LT	7	85	20	70	Conifer							10% BARE
								Hardwood		7					
996	LF	2	LT	0	85	0	85	Conifer							15% BARE
								Hardwood	1	10	1				
996	LF	3	LT	0	85	5	65	Conifer							30% BARE, 40% HIGH TERRACE
								Hardwood	3	2					60% BARE
996	RT	1	HS	45	85	20	20	Conifer							
								Hardwood		5	1				
996	RT	2	RB	0	50	0	0	Conifer							80% ROADBED, 20%DIRT
								Hardwood							60% BARE
996	RT	3	HS	45	80	0	40	Conifer			1				
								Hardwood							
1026	LF	1	HT	0	85	20	50	Conifer		7					30% BARE
								Hardwood	5		1				
1026	LF	2	HT	0	85	60	30	Conifer					2	0	10% BARE
								Hardwood							
1026	LF	3	HT	0	65	50	50	Conifer				1			
								Hardwood	5						
1026	RT	1	HT	0	85	25	65	Conifer							10% BARE
								Hardwood		7	2				
1026	RT	2	HT	0	85	10	90	Conifer			1				
								Hardwood		6	4				
1026	RT	3	HT	0	85	10	80	Conifer			1				10% BARE
								Hardwood		0	1				

RIPARIAN ZONE VEGETATION

Reach 20

Reach 20

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
1067	LF	1	HS	50	85	20	70	Conifer	1		1	1		10% BARE
								Hardwood	4					
1067	LF	2	HS	18	85	20	60	Conifer	1	3	1	1		20% BARE
								Hardwood	2					
1067	LF	3	RB	0	20	0	40	Conifer		1				60% ROADBED
								Hardwood						
1067	RT	1	HT	0	85	20	70	Conifer						10% BARE
								Hardwood	7	10				
1067	RT	2	HT	0	65	5	95	Conifer						
								Hardwood	4	1				
1067	RT	3	HS	30	80	5	85	Conifer			2	2		30% HT, 10% BARE
								Hardwood	4	3				
1084	LF	1	HT	0	85	15	45	Conifer			1			40% BARE
								Hardwood	2	5				
1084	LF	2	HT	0	85	10	55	Conifer						35% BARE
								Hardwood		5				
1084	LF	3	HS	15	85	0	50	Conifer	2	1		1		50% BARE
								Hardwood		1				
1084	RT	1	LT	0	85	20	70	Conifer						10% BARE
								Hardwood		2				
1084	RT	2	LT	6	85	15	65	Conifer						20% BARE, 50% HT
								Hardwood	7	5				
1084	RT	3	HT	2	85	5	70	Conifer				1		25% BARE
								Hardwood	1	2				

RIPARIAN ZONE VEGETATION

Reach 21

Reach 21

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
1106	LF	1	HT	18	85	5	60	Conifer	2	2				35% BARE
								Hardwood		3				
1106	LF	2	HT	10	85	20	30	Conifer	2	3				50% BARE
								Hardwood			1			
1106	LF	3	HT	25	85	0	70	Conifer	1	2			0	30% BARE
								Hardwood	0	3	2			
1106	RT	1	HS	25	85	20	70	Conifer		1				10% BARE
								Hardwood		2	1			
1106	RT	2	HS	55	85	30	60	Conifer	1	4				
								Hardwood		3	1			
1106	RT	3	RB	3	20	0	20	Conifer						80%
								Hardwood						ROADBED

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
1	1	RI	00	19		START AT MOUTH	10T 0498605, 4847478 3D
1	4	LP	01	229	BV		PIKE MINNOW
1	5	IP	10		BV		
1	7	LP	00	290	BV		
1	9	BW	10		BV		
1	10	LP	00	609	BV		
1	11	RI	00	643			BR% 10 (% ACW THAT IS BEDROCK)
1	12	LP	00	697	BV		BR % 5
1	13	RR	00	722	BV		BR 65%
1	14	LP	00	837	BV		BR 20%, UNKNOWN TROUT
1	15	RB	00	865	BV		BR 45%, UNKNOWN TROUT
1	16	LP	01	911			BR 1.5%
1	17	LP	01	928			BR 60%
1	18	SR	01	934			BR 90%
1	19	RI	02				BR 30%
1	20	TP	02				BR 90%
1	21	LP	00	1016	BV		BR 10%
1	22	SC	00	1052	BV		10T 0489560, 4847111 3D
1	23	LP	00	1234	BC		BR 5%
1	24	RI	00	1282			NORTHERN PIKE MINNOW
1	26	LP	00	1514			BR 20%
1	27	LP	00	1547			BR 10%
1	28	SC	00	1564			BR 5%
1	29	LP	00	1655			BR 10%
1	31	LP	00	1756			BR 40%
1	32	LP	00	1792			BR 20%, DEPTH MAY BE DEEPER
1	33	RB	00	1848			10T 0500147, 4846863
1	34	LP	00	2103			BR 5%
1	35	RI	00	2171	/SS		BR 5%
1	36	LP	00	2228			CATTLE/
1	37	RI	00	2286			BR 5%
1	38	RB	00	2336			CATTLE, 16°C
1	39	LP	00	2550	SD		BR 45%, /IRRIGATION PUMP
1	42	LP	00	2771	/SS		BR 10%
1	43	RI	00	2799			BR 15%, 10T 0500566,4846029 3D
1	44	LP	00	2826			BR 10%, PLYWOOD
1	45	RI	01	2886	SS/		BR 5%
1	47	IP	10		BV		BR 20%
1	48	LP	00	2969			BR 20%
1	50	SS	00	3018		STEP HEIGHT 0.5M	MANMADE STEP
1	51	DP	00	3108			BR 10%
1	52	SC	00	3125			BR 5%
1	53	SS	00	3126		STEP HEIGHT 0.65M,	MANMADE, 0500560,4845744 2D
1	54	DP	00	3245	BC	BC	BR 40%, DEPTH MAY BE GREATER
1	55	LP	01	3290			BR 50%
1	59	LP	02				BR 50%
1	60	DP	00	3375			BR 50%
1	61	RI	00	3415			BR 5%
1	62	LP	00	3453			BR5%
1	63	RI	00	3519	WL		BR 5%, DEER TRACKS,GPS READING
1	64	LP	00	3652			BR5%, 3D 0500672,4845428, 17°C
1	65	RI	00	3684			SUCKER IN UNIT 64
1	66	LP	00	3724	BR 5%		
1	67	SC	00	3740			BR 15%
1	68	TP	00	3890			BR 50%, ESTIMATED DEPTH

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
1	69	RR	00	3992			BR 90%, 2D 0500958,4845087
1	70	TP	00	4125			BR 70%, DEPTH MAY BE GREATER
1	71	RB	00	4189	WL		BR 5%, DEER
1	72	RI	00	4275			BR 50%
1	73	TP	00	4423	SD		BR 70%, IRRIGATION PUMP
1	74	RB	00	4463			BR 30%
1	75	RR	00	4521			BR 70%
1	76	TP	00	4584			BR 70%
1	77	SR	00	4591			BR 100%
1	78	RI	00	4698			BR 90%
1	79	LP	00	4754			BR 20%
1	80	RI	01	4824	/TJ	/CHAMPION CREEK	END REACH
1	81	SC	11			14.5°C	14.5°C
2	82	MX	00	5109		NO ACCESS	NO ACCESS
3	83	RB	00	5160		17°C	3D 0501302, 4844070
3	84	LP	00	5263			BR 5%
3	85	LP	00	5295	BC	BC	BR 15%
3	86	RI	00	5321			BR 5%
3	87	LP	00	5352	WL, /SD		BR 20%, CRAYFISH, IRRIG PUMP
3	88	RB	00	5385			BR 10%
3	89	LP	00	5425	/SD/		BR 5%, IRRIGATION PUMP
3	91	RI	00	5638			2D 0501278, 4843682
3	92	LP	01	5748			BR 5%, POOL MAY BE DEEPER
3	93	BW	10		BV, WL		
3	94	SC	01	5760	TJ/		
3	95	SC	11			UNNAMED TRIBUTARY	ACW 1.8M, 13°C
3	96	LP	00	5862	SS/		BR 10%, 2D 0501296,4843452
3	97	RI	00	5904			BR 10%
3	98	RB	00	5940		SIGN:FISH TRAP DOWNSTREAM CAUTION	
3	99	LP	01	5972			BR 45%
3	100	RB	01	6003	BV		3D 0501245, 4843240
3	101	RI	01	6075	BV	RIPARIAN UPSTREAM OF METRIC	18°C
3	102	RB	02		WL		KINGFISHER
3	103	LP	02		WL, BV		BR 40%, PIKEMINNOW, BULL FROG
3	105	LP	02		WL, BV		BLUE HERON, OTTER SCAT
3	106	LP	00	6323			BR 10%
3	108	IP	10				SCULPIN
3	109	LP	00	6469	WL, BV		DEER,
3	110	RR	00	6512			BR 90%
3	111	LP	00	6659	BV, SS/		BR20%
3	112	LP	00	6738			BR 50%
3	113	RI	01	6764	/SD/		BR 60%, 3D 0501678,4843126
3	114	IP	10				BR 50%
3	115	LP	00	6794			BR 20%
3	116	RB	00	6823			BR 5%
3	117	SS	00	6823		STEP HEIGHT 0.4M	
3	118	DP	00	6903			BR 5%, NORTHERN PIKE MINNOW
3	120	LP	00	6988	/SD		BR 5%, IRRIGATION PUMP
3	121	LP	00	7056			3D 0501548, 4842745
3	123	LP	00	7268			BR 5%
3	124	RI	00	7323			BR 20%
3	125	LP	00	7361			BR 15%, OLD BRIDGE ABUTMENTS
3	126	RI	00	7399			BR 15%
3	127	GL	01	7440	/TJ		BR 15%, TJ ACW 1.3M, 15°C
3	128	RR	11				BR 30%, 3D 0501470,4842411

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
3	130	GL	00	7571			3D 0501562, 4842280
3	134	LP	01	7659			BR 5%
3	135	SC	01	7680			BR 10%
3	136	LP	01	7735	WL		BR 5%, CRAYFISH
3	137	RB	01	7784			BR %, 3D 0501635, 4842110
3	139	DC	02				ACW 3.7M
3	140	LP	00	7850			3D 0501629, 4842060
3	143	RI	01	7996			BR 10%
3	144	LP	01	8008			BR 10%
3	145	RB	01	8040			BR 30%
3	146	RI	02				BR 60%
3	147	DC	03				ACW 4.5M
3	148	LP	00	8063	BV		BR 50%
3	149	SS	00	8064		STEP HEIGHT 0.3M	
3	150	DP	01	8189	BV, /TJ		
3	151	RI	11			UNNAMED TRIB	ACW 1.7M, 13°C
3	152	LP	00	8240			BR 20%, 2D 0501566, 4841791
3	153	RI	00	8282			BR 15% 3D 0501659, 4841733
3	154	LP	00	8345			BR 5%
3	155	SC	00	8367			BR 15%
3	156	LP	00	8401			BR 50%
3	157	SR	00	8414			BR 80%
3	158	LP	00	8509	BV		
3	159	RI	01	8579	TJ/	PERKINS CREEK	END REACH
3	160	RB	11			PERKINS CREEK	ACW 7M, 14°C
3	161	LP	11				3D 0501852, 4841494
4	162	LP	00	8694			BR 15%
4	163	SC	00	8720			BR 5%
4	164	LP	00	8784			BR 30%
4	165	RB	01	8871			BR 20%
4	166	LP	01	8926	BV		
4	168	GL	01	9009	0		3D 0501966, 4841036
4	175	LP	01	9117			BR 10%
4	178	LP	00	9180	BV		
4	180	LP	00	9228	BV		
4	181	SC	00	9241	BV		3D 0501950, 4840845
4	182	LP	00	9282			BR 5%
4	183	SC	00	9297			BR 60%
4	184	RI	00	9356	BV		BR 20%
4	185	RB	00	9382	BV		BR 10%
4	186	LP	00	9438	BV		BR 60%
4	188	LP	00	9537	BV		BR 10%
4	189	RR	00	9563			BR 100%
4	190	LP	00	9589	BV		BR 95%, 3D 0502148, 4840682
4	191	TP	00	9626	BV		BR 80%, POOL MAY BE DEEPER
4	192	RR	00	9703	BV		BR 95%
4	193	LP	00	9773			BR 10%, PIKE MINNOW
4	194	LP	00	9858	BV		BR 10%
4	195	SC	00	9871			BR 50%
4	196	LP	00	10023			BR 40%
4	197	RI	00	10054			BR 60%
4	198	SP	00	10100			BR 60%
4	199	RB	00	10140			BR 15%
4	200	LP	00	10202			BR 70%
4	201	RR	00	10235			BR 70%, 3D 0502200, 4840225

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
4	202	LP	01	10268	BV		BR 60%
4	203	RI	01	10347	BV		
4	204	RI	02		BV		3D 0502103, 4840146
4	205	SD	00	10348	BD	STEP HEIGHT 0.5M	
4	206	BP	00	10534	BV	/UNNAMED TRIBUTARY, END REACH	BR 5%
5	207	MX	00	11039		NO ACCESS	3D 0502002, 4840032, 17°C
6	208	LP	01	11170	BV	17°C	3D 05010896, 48395002
6	210	LP	00	11234		18°C	BR 5%
6	212	LP	00	11343			BR 5%, METAL PIPE IN STREAM
6	213	RI	01	11371	/TJ/	/TRIBUTARY	13°C, 3D 0501812, 4839194
6	214	CB	11			SMITH CREEK	/SMITH CREEK
6	215	DC	11			KENNEDY CREEK	KENNEDY CREEK/
6	216	RI	00	11441		END REACH	3D 0501820, 4839101
7	221	LP	01	11715			BR 50%
7	222	BW	10				BR 100%
7	223	RI	00	11872			BR 5%
7	224	RB	00	11979	BV		
7	225	LP	00	12020			BR 40%
7	226	SR	00	12024			BR 100%, 3D 0501982, 4838571
7	227	LP	00	12072			BR 20%
7	228	RB	01	12150		UNNAMED TRIBUTARY/	BR 5%, 3D 0502007, 48438522
7	229	SR	11				BR 80%
7	230	LP	00	12231			BR 5%
7	231	RB	00	12264	WL		BR 5%, CRAYFISH
7	232	LP	00	12304			BR 40%
7	233	RB	00	12414	WL	END PRIVATE SECTION, END REACH	BR 5%, DACE, CRAYFISH
8	234	LP	00	12445		WEYERHAEUSER PROPERTY	START WEYERHAEUSER LAND
8	235	SC	00	12456			BR 15%
8	236	LP	00	12492			BR 35%
8	237	SC	00	12506			BR 40%
8	238	LP	00	12534		POSSIBLE REDD	BR 5%
8	239	SC	00	12547			BR 15%
8	241	RP	00	12589	SS/	SS/	
8	242	SP	00	12615	WL		BR 75%, DEER TRACKS
8	243	SC	00	12626			BR 75%
8	244	LP	00	12651			BR 60%
8	245	RR	00	12679		UNKNOWN TROUT	BR 85%
8	246	RI	00	12755			BR 70%
8	247	LP	00	12853	AM	AMPHIBIAN	BR 70%, UNKNOWN FROG
8	248	RI	01	12899			BR 10%, CABLE IN RIVER
8	256	SC	04				BR 15%
8	260	LP	01	13068	BV, /TJ	/TJ, RANGE FINDER FOR LENGTH	BR 45%
8	261	SB	11			H 0.4M, ACW 0.9M	
8	262	RB	11				0502714, 4838069
8	263	SC	00	13080	/SS/	/SS	BR 30%
8	264	LP	00	13152	BC, WL	BC, WL	BR 20%, KINGFISHER
8	266	LP	00	13191			BR 20%
8	268	RI	01	13268	TJ/	UNKNOWN TROUT, TJ/, RIPARIAN	END REACH
8	269	CB	11			FALL CREEK, ACW 2.7M	11°, WHITE, OPAQUE WATER
9	272	LP	00	13341			BR 10%
9	273	SC	00	13353		LOGGING CABLE	BR 15%, CABLE IN STREAM
9	274	LP	00	13385		LOGGING CABLE	BR 45%
9	275	RI	00	13473			BR 25%
9	277	LP	00	13575			BR 50%
9	278	SC	00	13589	BV		BR 60%

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REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
9	279	TP	01	13619	BV	BEAVER ACTIVITY	BR 50%
9	284	PD	02		SS/	SS/, ROUGH SKIN NEWT	BR 50%
10	288	TP	00	13768	WL	POTENTIAL REDDS	BR 100%, CRAYFISH
10	289	CR	00	13830			BR 90%
10	290	TP	00	13858			BR 90%
10	291	RR	00	13873			BR 90%
10	292	TP	01	13903	BV	BEAVER ACTIVITY	BR 85%
10	293	RB	01	13972			BR 10%
10	294	DU	02		WL		BR 40%, DEER TRACKS
10	295	PD	02		AM		ROUGH SKIN NEWT
10	297	LP	00	14062			DEAD CAT
10	298	RI	01	14112	/TJ	END REACH	
10	299	SB	11		CS/CS	ACW 3M, 3D 0503180,4837250	SHORT CREEK, BOULDERS
10	300	RB	11		CS/CS	BRIDGE CROSSING	MOSTLY RIPRAP
11	301	RI	01	14191		2D 0503224, 4837250	
11	302	BW	10				FISH
11	303	LP	00	14256	BV	DACE, BEAVER ACTIVITY	BR 10%
11	304	RR	00	14305	SS	SS/	BR 85%, PICTURES
11	305	RB	00	14352			BR 75%
11	306	LP	01	14390	TJ/	TJ/	BR 5%
11	307	SC	11			BLUE CREEK ACW 4.5M, 12°C	
11	310	SP	00	14540	BV	BEAVER ACTIVITY	
11	311	LP	00	14576	CS		BR 70%, CS
11	312	PP	00	14583			HUGE BEDROCK VARIANCE
11	313	SR	00	14584		HEIGHT 0.2M	BR 90%
11	314	LP	00	14608		/ROCK QUARRY BY ROAD U81-93	BR 75%
11	315	RB	00	14631			BR 75%
11	316	SR	00	14638			BR 50%
11	317	LP	00	14693	BV	BEAVER ACTIVITY	BR 60%
11	318	TP	00	14760	WL	DIPPER	BR 85%
11	319	SR	00	14770			BR 20%
11	320	RI	01	14784			BR 10%
11	321	CR	11			ACW 3.0M, 14°C, IRON DEPOSIT	
11	322	RB	01	14803			SIMPSON CREEK
11	323	SR	02				BR 90%
11	324	RR	02				BR 85%
11	325	PP	02				BR 85%
11	326	SR	02			HEIGHT 0.3M	BR85%
11	327	LP	00	14829			BR 60%
11	328	RI	01	14877			BR 40%
11	330	LP	02		AM	ROUGH SKIN NEWT	
11	331	SB	02			ACW 5.5M	
11	333	LP	01	14981	BV, /SS	DACE, BEAVER, /SS, LOGGING CABLE	BR 40%
11	334	SC	01	14995			BR 70%, CABLE
11	336	DC	02			OLD DRY CHANNEL	
11	337	RI	00	15085		3D 0503640, 4836553, 13.5°C	PICTURES
11	338	LP	00	15141	BV	BEAVER ACTIVITY	
11	341	RP	01	15313	BV	BEAVER ACTIVITY	PHOTO
11	342	RB	01	15369	BV	LOGGING CABLE	BR15%
11	343	LP	02		BV	DACE, BEAVER	PHOTO
11	345	LP	02		BV, WL	DEER TRACKS, BEAVER ACTIVITY	
11	347	LP	02		BV		
11	352	LP	03		BV	DACE, BEAVER	
11	354	LP	03		BV	DACE, BEAVER	
11	355	SC	03				PHOTO

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REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
11	356	RP	00	15386		0503827, 4836299, 14.5°C	
11	358	SR	01	15433			BR 50%
11	359	LP	01	15459			BR 60%
11	360	BW	10				BR80%
11	362	LP	02		AM	FROG	BR 50%, PHOTO
11	364	LP	02		AM, BV	BULL FROG, ROUGH SKIN NEWT, BV	FROG, PHOTO
11	366	LP	02		AM	ROUGH SKIN NEWT	
11	371	LP	00	15509	WL	DEER TRACKS, DACE	BR 70%, PHOTO
11	372	RR	00	15539		0503861, 4836193, 16°C	BR 80%
11	373	RI	00	15599			BR 1%
11	376	LP	00	15713	BV, WL	DACE, BEAVER, DEER TRACKS	
11	377	SC	01	15728	/TJ	/TJ	
11	378	SR	11			UNNAMED TRIB ACW 1.1M, 14°C	
11	379	LP	00	15755	BV	2D 0503962, 4836001, BEAVER	BR 20%
11	380	SR	00	15766			BR 20%
11	381	TP	00	15804			BR 60%
11	382	RB	00	15826	/SS	/SS, 0504039,4835969	
11	383	LP	00	15862	BV	BEAVER ACTIVITY	BR 5%
11	384	RI	00	15927			RIPARIAN TRANSECT CONDUCTED
11	388	LP	02			ACW 7.8M	IRON DEPOSITS
11	390	GL	00	16154	BV	DACE, BEAVER ACTIVITY	
11	391	RI	01	16182	SS/	/SS FROM POND	
11	392	CB	11			/POND OVERFLOW,0504375,4835846	OVERFLOW FROM POND
11	393	RB	01	16218	/SS	/SS FROM POND, 24°C	
11	394	LP	01	16296	SS/	/SS, 17.5°C 1215, BEAVER ACTIV	IRON DEPOSITS
11	395	SC	02			PREVIOUS SS HIGH IN IRON	
11	396	LP	02		AM	ROUGH SKIN NEWT	
11	401	LP	01	16480	BV	BEAVER ACTIVITY	BR 40%
11	402	RI	01	16520	TJ/	TJ/ LEWIS CREEK	
11	403	RB	11			17°C, 0504625,4835762,ACW2.8M	
11	405	RB	11			BC AT END OF UNIT, US FRY	
11	406	LP	01	16577	BV	BEAVER ACTIVITY	LEWIS CREEK
11	407	SC	02		/SS	/SS IRON DEPOSIT	BR 15%
11	410	LP	02				BR50%
11	414	LP	03		BV	DACE, BEAVER ACTIVITY	
11	416	LP	03		WL		CRAYFISH
11	423	LP	06				BR 80%
11	425	RI	06		SS/	SS/	
11	426	RR	00	16634			BR 30%
11	427	SR	00	16647		15° AT 0910	BR 50%
11	428	LP	00	16749	BC	BRIDGE CROSSING	BR 30%
11	429	RI	00	16809	BV, WL	DACE, DEER TRACKS, BEAVER ACT.	BR 40%
11	430	RB	01	16896			BR0.5%
11	433	RI	02		BV	BEAVER ACTIVITY	
11	434	LP	02		BV	BEAVER ACTIVITY	
11	435	RI	02		BV	BEAVER ACTIVITY	
11	441	RI	00	16993		0504593, 4835319, 15°C	
11	443	SP	00	17049	BV	BEAVER ACTIVITY	
11	444	SC	00	17067			BR 10%
11	447	RB	00	17171	BV	PIECE OF RR TRACK, BEAVER ACT.	
11	448	SR	00	17191			RAILROAD DEBRIS
11	449	LP	00	17235		/STRUCTURE WITH IRON BAR	EST. DEPTH, CONCRETE, PHOTO
11	451	BW	10				BR 50%
11	455	RI	00	17358		3D 0504422, 4835136	
11	459	RR	00	17533			BR 60%

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REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
11	460	LP	00	17542	/SS	/SS	BR 70%
11	462	RB	00	17607	SS/	SS/	
11	463	RP	00	17632		0504417, 4834800, BEAVER ACT.	
11	465	RR	00	17722		18° AT 1430, LOGGING CABLE	BR 60%
11	466	SR	01	17739			BR 60%
11	468	SR	01	17773		HEIGHT 0.2M	BR 100%
11	470	SR	01	17796		HEIGHT 0.4M	
11	471	GL	01	17905		3D 0504291, 4834653	BR 70%
11	477	LP	01	17966	/TJ	LOGGING CABLE,BC,/TJ, UT	
11	478	RB	11			ACW 5.2M, 14°C	ROCK CREEK
11	480	RB	00	17991		END REACH	PHOTO
12	481	LP	01	18042	BV	2D 0504279, 4834554	BR 15%
12	482	BW	10				BR 15%
12	490	PD	04		AM	ROUGH SKIN NEWT, FROG	ROUGH SKIN NEWT, FROG
12	492	RI	00	18318		3D 0504573, 4834476, UT	
12	496	RI	00	18513			BR 1%
12	497	LP	01	18575	BV	BEAVER ACTIVITY	BR 35%
12	499	LP	01	18700	BV	BEAVER ACT.	
12	503	RP	00	18751		3D 0504587, 4834122	
12	509	LP	01	19065			
12	511	LP	02		/TJ	/TJ	
12	512	SC	11			15°C AT 1430	
12	513	RI	11			ACW 5.9M	
12	514	RI	02		AM	BULL FROG	BULL FROG
12	517	RI	00	19112		2D 0504890, 4834096, 15°C	BR 5%
12	518	RI	01	19166			BR 35%
12	520	SR	02				BR 65%
12	522	SC	02		/SS		
12	523	LP	00	19254			BR 35%
12	524	RI	00	19320		15.5°C, 2D 0505047, 4834038	
12	525	LP	00	19396	BV	BEAVER ACTIVITY	
12	530	LP	01	19564	BV	BEAVER ACTIVITY	
12	531	RI	01	19644	/SS	/SS, BEAVER ACT.	
12	532	LP	01	19680	BV	BEAVER ACT.	
12	533	RI	01	19712		3D 0505342, 4833799	
12	534	RI	01	19782		17° AT 1130	
12	540	LP	02		BV	DACE, BEAVER ACT.	
12	545	RI	01	19871		19.0°C, 3D 0505420, 4833734	
12	549	LP	00	19900	BV	BEAVER ACT.	
12	553	SD	01	20050	BD	BEAVER DAM HEIGHT 0.3M	
12	554	BP	01	20058	BV		
12	562	LP	00	20141	BV	3D 0505531, 4833534, 20°C, BV	BR30%
12	563	RI	00	20201	AM	ROUGH SKIN NEWT	ROUGH SKIN NEWT
12	564	LP	00	20307	BV	BEAVER ACT.	
12	565	RI	00	20348	BV	BEAVER ACT., 20°C	
12	566	LP	00	20412	BV	BEAVER ACT.	
12	571	RI	00	20634	BV		
12	573	RI	00	20784		15.5°C, 3D 0505927, 4833106	
12	576	LP	00	20994	BV	BEAVER ACT., UNKNOWN TROUT	BR 30%
12	577	RI	00	21023			BR 25%
12	579	LP	00	21063	BV, WL	BEAVER ACT., ELK TRACKS	BR 55%
12	580	RR	01	21100	/TJ	/TJ	
12	581	RI	11			ACW 4.8M, 13.5°C	CLEARING CREEK
12	583	RI	00	21277		3D 0506145, 4832792	
12	584	GL	00	21327			BR 5%

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REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
12	585	LP	00	21369			BR 40%
12	586	RR	00	21409	SS/	/SS	BR 45%
12	587	RI	00	21506			BR 15%
12	588	LP	01	21576	TJ/, BV	NICE LOOKING GRAVEL, CEDAR CREEK	BR 50%, END REACH
12	589	SR	11			15.0°C 3D 0506501, 4832689, PN	BR 70%
12	590	RR	11				BR 65%
13	591	RR	00	21620	PN	ADULT STEELHEAD	BR 65%, STEELHEAD
13	592	LP	00	21650			BR 50%
13	593	SR	00	21650		HEIGHT 0.1M	
13	595	SR	00	21665			BR 60%
13	596	RI	00	21719	BV	BEAVER ACT.	BR 60%
13	597	LP	01	21792	BV	DAM REMNENTS, BV, UNKNOWN TROUT	
13	599	LP	01	21894	BV	BEAVER ACT/	
13	601	LP	01	21913		ACW 9M, 3D 0506517, 4832390	
13	610	LP	01	22062		17°C AT 0930	
13	615	DC	02			3D 0506608, 4832269, 16°C	
13	616	LP	00	22276		OLD SECONDARY CHANNEL	
13	621	LP	00	22493	BV	BEAVER ACTIVITY	BR 5%
13	622	LP	01	22546	WL	KINGFISHER	
13	625	LP	00	22597		3D 0506896, 4832003, 16°C	BR 5%
13	626	RI	00	22759			BR 50%
13	627	LP	00	22869			BR 55%
13	628	SC	00	22876			BR 50%
13	629	SP	00	22912	BC	BRIDGE CROSSING	
13	630	SR	00	22914		STEP HEIGHT 0.4M	
13	631	RR	00	22941		SALMON SPAWNING SIGN, UT	
13	633	RR	01	22985	TJ/		BR 50%
13	634	SR	11			ALLEN CREEK	BR 85%
13	635	RR	11				BR 85%
13	636	RB	00	23023		3D 0507442, 4831725	BR 5%
13	637	LP	00	23123	BV	UT	BR 40%
13	638	LP	00	23171	BV	BEAVER ACTIVITY	BR 55%
13	639	RR	00	23193			BR 75%
13	640	SP	00	23224	BV	BEAVER ACT.	BR 70%
13	641	SC	00	23230			BR 50%
13	642	RR	01	23267			BR 70%
13	644	RR	00	23357		3D 0507474, 4831566	BR 75%
13	645	TP	00	23408		19°C	BR 95%
13	646	RI	00	23521			BR 20%
13	647	SP	00	23601			BR 55%
13	648	RI	00	23666			BR 40%
13	651	RB	01	23793	/TJ	END REACH, 3D 0507684, 4831193	BR 50%
13	652	RR	11			ACW 3M, 16°C	STELL CREEK
14	653	LP	00	23854			BR 30%
14	655	RR	00	23941			BR 60%
14	656	LP	00	23968			BR 5%
14	657	SR	00	23978			BR 15%
14	658	LP	01	24063			BR 60%
14	659	BW	10				BR 35%
14	660	RR	00	24102			BR 45%
14	661	LP	00	24161			BR 5%
14	662	RR	00	24216			BR 50%
14	663	LP	00	24244			BR 65%
14	664	RI	00	24265		3D 0508051, 4830894	BR 50%
14	665	LP	00	24281	SS/		BR 40%

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REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
14	666	SR	00	24295			BR 70%
14	667	SR	00	24301			BR 80%
14	668	LP	00	24339			BR 75%
14	669	LP	00	24417			BR 10%
14	670	RI	00	24501			BR 15%
14	671	SR	00	24507			BR 55%
14	672	RI	00	24576			BR 80%
14	673	LP	00	24614			BR 65%
14	674	RR	00	24662		3D 0508052, 4830573, 15°C	BR 70%
14	675	SP	00	24693			BR 65%
14	676	CR	00	24749			BR 40%
14	677	RR	00	24781			BR 75%
14	678	TP	00	24849			BR 95%
14	679	SR	00	24859			BR 40%
14	680	TP	00	24915	SS/	SS/, UNKNOWN TROUT	BR 85%
14	681	SR	00	24921		STEP HEIGHT 0.9M	BR 60%
14	682	SR	00	24938			BR 70%
14	683	LP	00	24953			BR 40%
14	684	SR	01	24969	WL	3D 0507983, 4830249	OTTER SCAT
14	690	LP	00	25027			BR 80%
14	691	SR	00	25028		STEP 0.2M	BR 85%
14	692	LP	00	25062	WL	OTTER SCAT	BR 5%
14	693	SR	00	25066		STEP H 0.5M	BR 40%
14	694	SP	00	25112	BC	3D 0507921, 4830166, 12°C	BR 30%
14	695	SR	00	25117		BC IN UNIT 675	BR 70%
14	696	LP	00	25135			BR 70%
14	697	SR	00	25138		STEP 0.4M	BR 75%
14	698	TP	00	25165			BR 80%
14	699	SR	00	25169		STEP 0.3M	BR 70%
14	700	RR	00	25234			BR 50%
14	701	RR	01	25261	TJ/		BR 30%
14	702	RI	11		WL	BARK SHANTY CREEK, 18°C, ACW 6.5	BR 50%, CRAYFISH
14	703	RI	11		WL	2D 0507418, 4830008	PACIFIC GIANT SALAMANDER
14	704	LP	00	25351	BV, WL		OTTER SCAT
14	706	LP	01	25473	/TJ	/TJ, END REACH, BIG DRY CREEK	BR 15%
15	708	RP	00	25500		3D 0507975, 4829870	
15	709	RI	00	25536			BR 40%
15	716	LP	00	25674			BR 5%
15	717	RR	00	25698			BR 10%
15	718	LP	00	25802			BR 40%
15	719	RI	00	25901			BR 35%, 3D 0508322, 4829735
15	720	LP	00	25955		14.5°C	BR 45%
15	721	RI	00	26009			BR 30%
15	722	LP	00	26027			BR 5%
15	723	SR	01	26035			BR 40%
15	724	RR	01	26063			BR 40%
15	725	RB	02				BR 50%
15	727	LP	00	26081		UNKNOWN TROUT	BR 30%
15	728	RI	00	26116			BR 40%
15	729	LP	00	26161	BV	BEAVER ACT.	BR 50%
15	730	RI	00	26217			BR 15%, 3D 0508596, 4829574
15	731	LP	00	26255			BR 5%
15	732	RB	00	26290			BR 80%
15	733	SP	00	26312			BR 75%
15	734	RR	00	26347			BR 70%

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
15	735	LP	00	26374	WL, AM	ELK TRACKS, RSN	BR 10%
15	736	RR	00	26452			BR 90%
15	737	TP	00	26496			BR 85%
15	738	SR	00	26498		HEIGHT 0.5M	BR95%
15	739	LP	00	26515			BR 15%
15	740	RR	00	26636	SS/	SS/, RIPARIAN TRANSECT	BR 95%, 3D 0508665, 4829208
15	741	LP	00	26691			BR 50%
15	742	RR	01	26784			BR85%
15	743	IP	10		AM	ROUGH SKIN NEWT (RSN)	
15	744	LP	01	26812	/TJ	/TRIBUTARY	
15	745	SC	11		BV	COMING FROM A BEAVER POND	
15	746	RI	11			13.0°C	
15	749	LP	02			ACW 3.7M	BR 15%
15	750	IP	10		AM	ROUGH SKIN NEWT	
15	751	RB	01	26918	WL	CRAYFISH	BR 5%, 3D 0508843, 4829041
15	754	LP	01	27024	BV	BEAVER ACTIVITY	BR 15%
15	755	RI	01	27090			BR 40%
15	756	LP	02		AM	ROUGH SKIN NEWT	BR 30%, ROUGH SKIN NEWT
15	762	LP	00	27131			BR 30%, 2D 0508981, 4829004
15	763	RI	01	27196			BR 10%
15	764	LP	01	27226		UNKNOWN TROUT	BR 5%
15	768	LP	01	27442		END REACH	BR 5%
15	776	DC	03				BR 25%
15	777	SC	01	27451			3D 0509102, 4828739
15	780	LP	01	27554	/TJ	/TJ LITTLE DRY CREEK	
15	781	DC	11			3D 0509095, 4828670	
16	782	RI	01	27645		UNKNOWN TROUT	
16	787	RI	01	27842		/SPAWNING SURVEY SIGN	
16	788	SC	02				BR 20%
16	789	LP	02				BR 25%
16	793	LP	03				BR 10%
16	795	LP	03		TJ/	TJ/ UNNAMED TRIB, 15°C	BR 5%
16	796	RB	11			3D 0509157,4828677, ACW 2.9M	
16	806	LP	00	27901	SS/	SS/	BR 40%, 3D 0509324, 4828524
16	809	RI	00	28215			BR 35%
16	810	LP	00	28233			BR 50%
16	811	CR	00	28258			BR 85%
16	812	LP	00	28309			BR 20%
16	813	RR	00	28341			BR 10%, LOGGING CABLE
16	814	LP	00	28382			BR 10%, 3D 0509483, 4828076
16	815	RB	00	28409			BR 5%
16	816	LP	00	28461			BR 50%
16	817	RR	00	28481			BR 90%
16	818	LP	00	28514	WL	TURTLE	BR 70%
16	819	RR	00	28576			BR 60%
16	820	LP	00	28668		UNKNOWN TROUT	BR 10%
16	822	LP	00	28731			BR 5%
16	823	RI	01	28873			BR 5%, 2D 0509645, 4827926
16	825	LP	02				BR 5%
16	827	IP	10		AM	ROUGH SKIN NEWT	
16	829	RI	00	28977			BR 15%
16	830	LP	00	29004	SS/	SS/	BR 15%
16	831	RR	00	29054			BR 85%
16	832	RI	00	29118		UNKNOWN TROUT	
16	833	LP	00	29180		ADULT STEELHEAD	

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
16	834	RI	01	29216	TJ/	TJ/ DAHL CREEK	END REACH
16	835	SC	11			15.5°C	
16	836	RB	11			ACW 3.8M	
17	838	LP	00	29249		UNKNOWN TROUT	
17	839	RR	00	29289			BR 65%
17	840	LP	00	29327			BR 40%
17	841	SR	00	29328		HEIGHT 0.3M	BR 80%
17	842	RR	00	29360			BR 85%
17	843	RI	00	29426			BR 90%
17	844	TP	00	29451	WL	ELK TRACKS	BR90%
17	845	SR	00	29453		HEIGHT 0.5M	BR 90%
17	846	RR	00	29503			BR 90%
17	847	SL	00	29503		HEIGHT 0.5M	
17	848	LP	00	29532			BR 40%
17	849	SL	00	29538		STEP HEIGHT 0.6M	
17	850	LP	00	29586		3D 0510103, 4827506	BR 10%
17	851	RR	00	29640			BR 35%
17	852	RI	00	29707			BR 25%
17	853	RR	00	29766			BR 55%
17	854	LP	00	29793			BR 65%
17	855	SC	00	29817			BR 10%
17	856	SP	00	29871			BR 35%
17	857	RR	00	29961			BR 30%
17	858	RI	00	30091	SS/	SS/	BR 40%, 3D 0510297, 4827015
17	859	GL	00	30171			BR 5%
17	861	LP	00	30345	SS/	SS/,SALMON SPAWN. SURVEY SIGN	BR 45%
17	862	RB	01	30390	TJ/	TJ/	BR 10%, END REACH
17	863	SB	11			14°C, ACW 3.2M	NORWEGIAN CREEK
18	865	SP	00	30427			BR 40%
18	866	RR	00	30599			BR 75%
18	867	LP	00	30655			BR 70%
18	868	RB	01	30683			BR 10%
18	871	LP	01	30754			BR 25%
18	876	LP	00	30780			BR 30%, 3D 0510465, 4826411
18	877	SR	00	30782		STEP HEIGHT 0.15M	BR 70%
18	878	LP	01	30825	BV	BEAVER ACTIVITY	BR 30%
18	880	RI	02				BR 5%
18	881	LP	02			ACW 7.5M	
18	882	SP	00	30936		UNKNOWN TROUT	BR 40%
18	883	RR	00	30954			BR 90%
18	884	SR	00	30962			BR 90%
18	885	LP	00	30987		UNKNOWN TROUT	BR 25%, 3D 0510490, 4826248
18	886	SR	00	30996			BR 60%
18	887	LP	00	31038			BR 75%
18	888	LP	00	31080		UNKNOWN TROUT	BR15%
18	889	RB	01	31162	/TJ	/TJ GRAY CREEK	BR 15%
18	890	RR	11			15°C, ACW 3.1M	BR 70%
18	891	RB	00	31253	GS	WATER LEVEL GAUGE/	BR 25%
18	892	LP	00	31296			BR 25%
18	894	LP	01	31351			BR 20%
18	895	RI	02				BR 70%
18	896	RR	00	31397	BC	BC	BR 60%
18	897	LP	00	31432	SS/	SS/	BR 45%
18	898	RI	01	31503	TJ/		BR 35%
18	899	RR	11			ACW 3.1, 14.5°C	SHEA CREEK

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
18	901	LP	00	31537			BR 80%
18	902	RR	00	31595	SS/	SS/, RSN, UNKNOWN TROUT	BR 85%
18	903	SR	00	31613			BR 90%
18	904	LP	00	31640			BR 70%
18	905	SR	00	31646		HEIGHT 0.2M	
18	908	RR	00	31948			BR 80%
18	909	RR	00	32036			BR 85%
18	910	SC	00	32053		13°C AT 0930	NO GPS READING
18	911	LP	00	32098		NO GPS COVERAGE	BR 50%
18	912	TP	00	32152		UNKNOWN TROUT	BR 70%
18	913	CR	00	32189			BR 85%
18	914	LP	01	32242	/TJ	/TJ, /SALMON SPAWN. SURVEY SIG	BR 65%
18	915	RI	11			BROWNIE CREEK, 11.5°C	
18	916	LP	00	32280			BR 30%
18	917	SR	00	32297			BR 95%
18	918	RI	01	32332			BR 50%
18	919	BW	10				BR 80%
18	920	SR	00	32334		HEIGHT 0.5M	BR 95%
18	921	SP	00	32376			BR 80%
18	922	RI	00	32403			BR 70%, CABLE
18	924	LP	01	32488	BV	BEAVER ACT.	
18	927	LP	01	32595			3D 0510962, 4824992
18	928	RB	01	32681	TJ/	TJ/	BR 5%
18	929	RB	11			ACW 6.3M, 14°C	LILLY CREEK
18	934	LP	01	32769	BV	BEAVER ACT.	
18	936	LP	01	32922		END REACH	
18	941	SC	03			HEIGHT 0.1M	
18	942	LP	03		BV	BEAVER ACT.	
18	945	SC	03			HEIGHT 0.6M	
18	952	LP	04		BV	BEAVER LODGE?	
19	959	SR	00	32924		HEIGHT 0.3M	BR 70%, 3D 0511034,4824722
19	960	LP	00	32955			BR 25%
19	962	LP	00	33028	BV	BEAVER ACT.	
19	969	RB	01	33152	BV		
19	970	LP	01	33168	BV	BEAVER LODGE	
19	971	RI	01	33294	BV	BEAVER ACT.	
19	972	RR	02				BR 50%
19	973	SL	02			HEIGHT 0.3M	
19	990	RI	04			FLows UNDER DEBRIS JAM	
19	995	LP	01	33436	/TJ	/TJ MILES CREEK	
19	996	RB	11			ACW 4.5M	
19	997	RI	00	33530			BR 5%
19	998	LP	01	33581	TJ/, BV	BEAVER ACT., TJ/, UNK. TROUT	BR 25%
19	999	RR	11			PERHAPS THIS IS TONES CRK	BR 5%
19	1000	LP	11			ACW 3.6M	BR 10%
19	1001	RR	01	33617			BR 50%
19	1002	RB	01	33722			BR 5%
19	1003	RB	02				BR 10%
19	1004	LP	02		BV	BEAVER ACT.	
19	1008	LP	02		SS/, BV	SS/, BEAVER ACT.	
19	1015	LP	03		AM, BV	RSN, BEAVER, UNKNOWN TROUT	ROUGH SKIN NEWT
19	1016	LP	00	33757			3D 0511398, 4824046
19	1017	RI	00	33814	BV, SS/	BEAVER ACT., SS/	
19	1018	RB	01	33863	BV	BEAVER ACT.	
19	1021	DC	02			NICE BIG TROUT	

MOSBY CREEK (CF WILLAMETTE BASIN) 2008 SUMMER

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
19	1026	LP	00	34057		UNKNOWN TROUT, END REACH	3D 0511583, 4823739
20	1033	LP	00	34390			BR 45%
20	1034	RI	01	34456	TJ/	TJ/ UNNAMED TRIB, 13°C	
20	1035	SR	11			HEIGHT 2.4M	BR 45%
20	1036	SP	00	34479			BR 50%
20	1037	RB	00	34509		16°C	BR 5%, 3D 0511747, 4823340
20	1038	LP	00	34548		ADULT STEELHEAD	BR 10%
20	1039	RP	00	34580			BR 10%
20	1040	LP	00	34595			BR 2%
20	1041	RB	00	34672			BR 25%
20	1042	RI	00	34706			BR 25%
20	1043	RB	00	34853			BR 5%
20	1044	LP	00	34899			BR 5%
20	1045	RB	00	34932		NO GPS	BR 10%, NO GPS READINGQ
20	1046	LP	00	34968		COTTID	BR 50%
20	1047	RB	00	35015			BR 10%
20	1048	LP	00	35043	TJ/	LOGGING CABLE, TJ/	BR 5%
20	1049	RI	11			UNNAMED TRIB, 11.5°C	
20	1051	RI	00	35077			BR 5%
20	1052	RB	01	35129	/TJ	/TJ UNNAMED TRIB, 12°C	BR 25%
20	1053	RR	11		/TJ		
20	1054	RB	01	35190		3D 0511916, 4822818	
20	1055	RI	01	35220			BR 40%
20	1056	RI	01	35319			BR 60%
20	1060	LP	02			UNKNOWN TROUT	
20	1062	LP	02				BR 25%
20	1067	PD	02				2D 0511934, 4822606
20	1069	RB	00	35369		UNKNOWN TROUT	BR 25%
20	1070	LP	00	35408		UNKNOWN TROUT	
20	1072	LP	01	35438		BEAVER ACT.	
20	1075	PD	02		/SS	/SS	
20	1076	LP	02				BR 5%
20	1079	LP	03		SS/	/SS	
20	1081	LP	00	35603		BEAVER ACT.	
20	1082	RR	01	35756	/TJ/	TJ/TJ	END REACH
20	1083	RB	11			COVE CRK, 13°C, ACW 2.8M	
20	1084	RB	11			WF MOSBY CRK, 12°C, ACW 8.1M	
21	1085	RB	00	35829		U1038 SALMON SPAWN SURVEY SIGN	
21	1087	RB	00	36219	WL	DIPPER	
21	1096	RI	00	36485			2D 0512452, 4821685
21	1098	LP	00	36534			BR 50%
21	1101	RB	01	36656		LOGGING CABLE	
21	1103	RI	00	36690	BC		
21	1104	SB	00	36693		HEIGHT 0.35M, BRIDGE CROSSING	
21	1105	LP	00	36719	BC	BRIDGE CROSSING, UNKNOWN TROUT	BR 5%
21	1106	RB	00	36762			BR10%
21	1107	LP	00	36793		END SURVEY	END, 0512559, 4821429

Mosby Creek (CF Willamette Basin) 2008 Summer Habitat Survey Photographs



Reach 1 - Unit 1 - Start of survey at confluence with Row River



Reach 1 - Unit 13 - A view of the reach



Reach 1 - Unit 53 - Step-over-structure; Stewart Bridge upstream of step



Reach 3 - Unit 83 - View of reach and rapid-over-boulder habitat.



Reach 3 - Unit 91 - View of reach and lateral scour pool



Reach 3 - Unit 100 - Riffle leading within an O1 channel

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 4 - Unit 162 - Start of reach; upstream from Perkins Creek



Reach 4 - Unit 174 - Debris jam



Reach 4 - Unit 190 - A view of the reach and a lateral scour pool



Reach 7 - Unit 217 - Start of reach; rapid-over-boulder



Reach 9 - Unit 272 - A view of reach and lateral scour pool



Reach 10 - Unit 288 - Pool approximately 2 meters deep leading to bedrock cascade

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 10 - Unit 297 - View of the reach just downstream from Short Creek



Reach 11 - Unit 304 - An example of bedrock within the active channel



Reach 11 - Unit 341 - Downstream view of the reach



Reach 11 - Unit 343 - Surveyor at start of off-channel habitat complex



Reach 11 - Unit 355 - End of the off-channel habitat complex
Dace, deer tracks, and evidence of beaver were noted



Reach 11 - Unit 371 - View of the reach and a lateral scour pool

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 11 - A holding pond on the west side of Mosby Creek Road
Water seeps from the pond to Mosby Creek



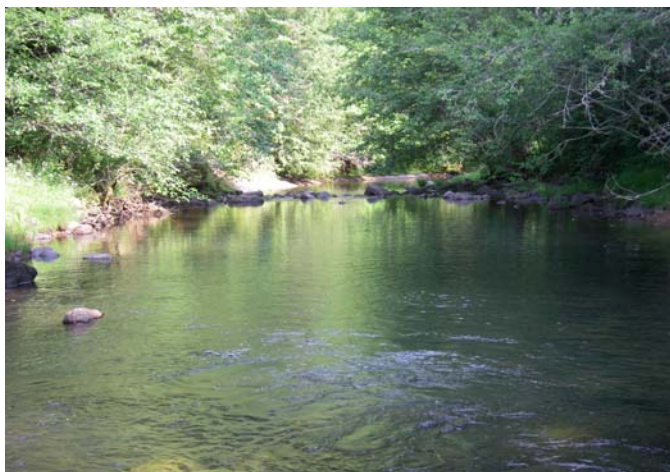
Reach 11 - A closer look at the pond



Reach 11 - Unit 449 - Scour pool with iron bar, bedrock, and gravel



Reach 11 - Unit 480 - Rapid-over-boulder at the end of reach 11



Reach 11 - Unit 480 - Downstream view of the reach



Reach 12 - Unit 511 - Palmer Creek entering a secondary channel

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 12 - Unit 517 - A riffle within the reach



Reach 13 - Unit 615 - An example of the reach and a lateral scour pool



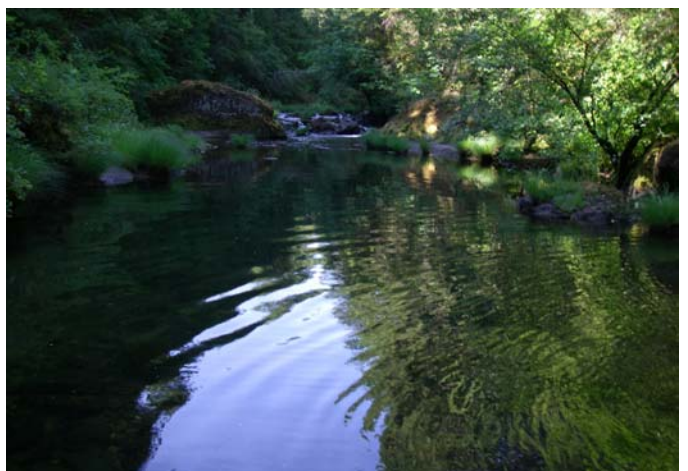
Reach 13 - Unit 624 - The landuse as seen from a high terrace during a riparian transect



Reach 13 - Unit 643 - A view of the reach



Reach 14 - Unit 663 - Downstream view of the reach



Reach 14 - Unit 679 - A trench pool

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 14 - Unit 683 - A view of the reach



Reach 14 - Unit 693 - A downstream example of the habitat



Reach 14 - Unit 699 - A look upstream



Reach 14 - Unit 701 - Bark Shanty Creek entering Mosby Creek



Reach 14 - Unit 706 - Big Dry Creek confluence



Reach 15 - Unit 729 - The top of a pool leading to riffle habitat

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 15 - Unit 739 - Rapid-over-bedrock habitat



Reach 15 - Unit 768 - A lateral pool leading to a step-over-cobble



Reach 15 - Unit 779 - Little Dry Creek entering the survey



Reach 16 - Unit 789 - Downed tree with depth staff for scale



Reach 16 - Unit 805 - An example of the reach

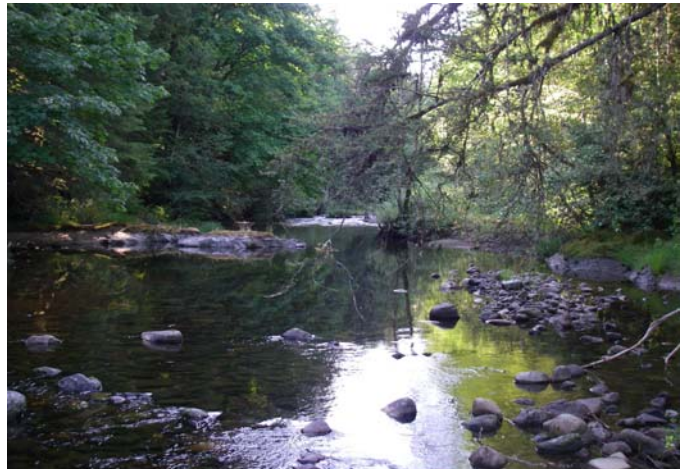


Reach 16 - Unit 818 - Western Pond turtle

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 17 - Unit 834 - Dahl Creek confluence



Reach 17 - Unit 850 - An example of the reach and a lateral scour pool



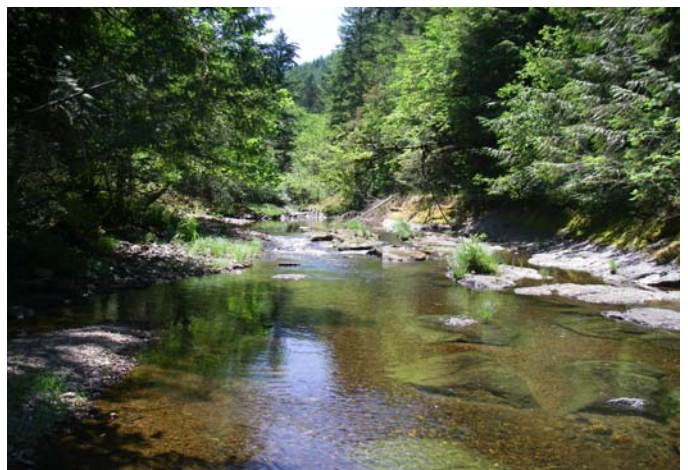
Reach 17 - Unit 850 - Downstream view of habitat structure and reach



Reach 18 - Unit 875 - A view of the reach



Reach 18 - Unit 882 - Bedrock-dominated habitat.
Depth staff in back of photograph for scale



Reach 19 - Unit 885 - View of the reach and a lateral scour pool

Mosby Creek 2008 Summer Habitat Survey Photographs continued



Reach 18 - Unit 889 - Gauging station of sorts



Reach 18 - Unit 928 - Rapid-over-boulders near Lilly Creek



Reach 19 - Unit 1028 - An upstream view of the reach and rapid-over-boulder habitat



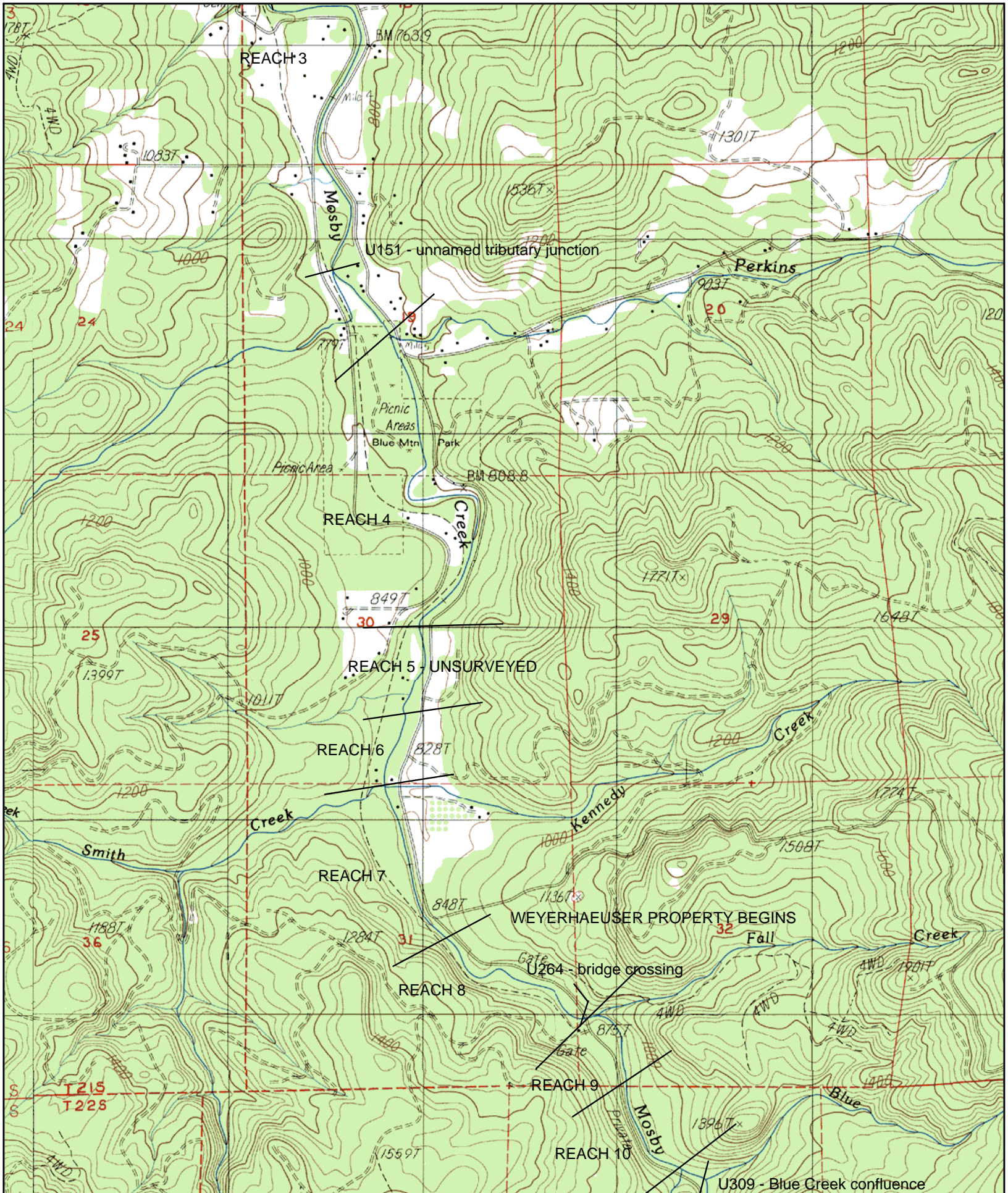
Reach 20 - Unit 1038 - An adult steelhead in a pool



Reach 20 - Unit 1046 - Lateral scour pool with sand deposit upstream

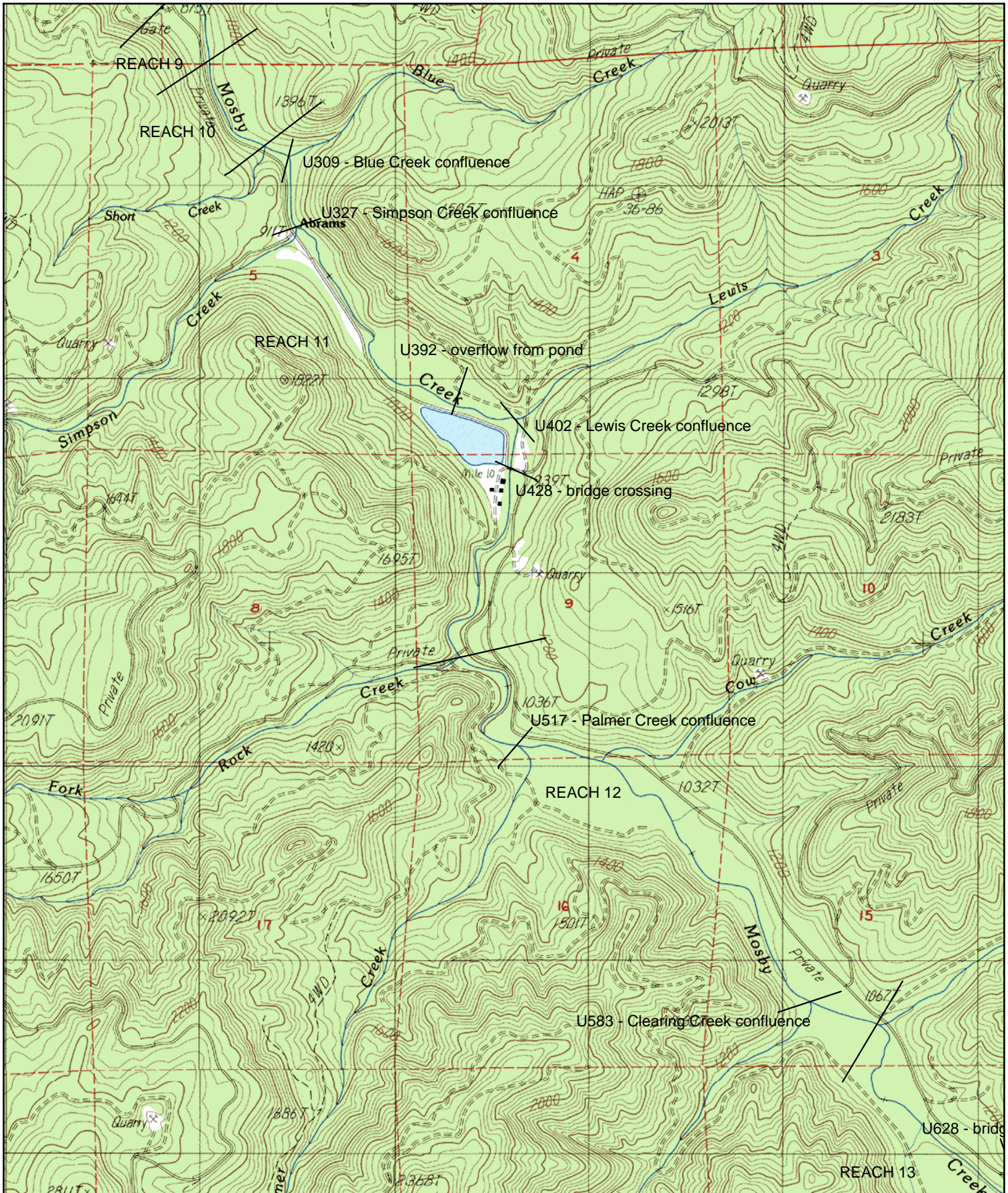


Reach 21 - Unit 1102 - Upstream view of the habitat and a bridge crossing
Bare soil on hillslope under bridge



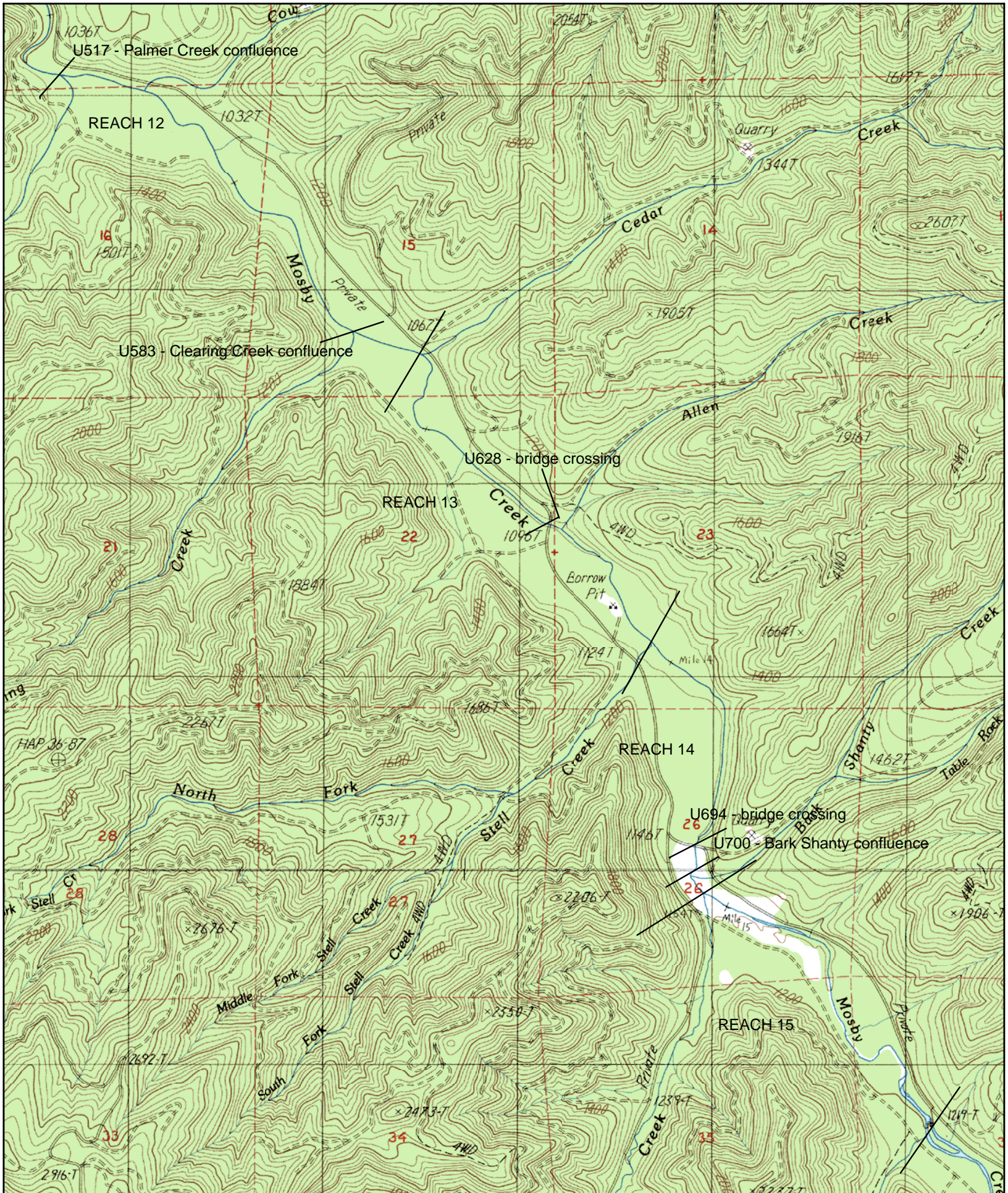
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 Date: 11/10/2008
 Scale: 1 inch equals 2000 feet

Location: 10 0502423 E 4840133 N
 Caption: MOSBY CREEK 2008 HABITAT SURVEY
 COAST FORK WILLAMETTE BASIN



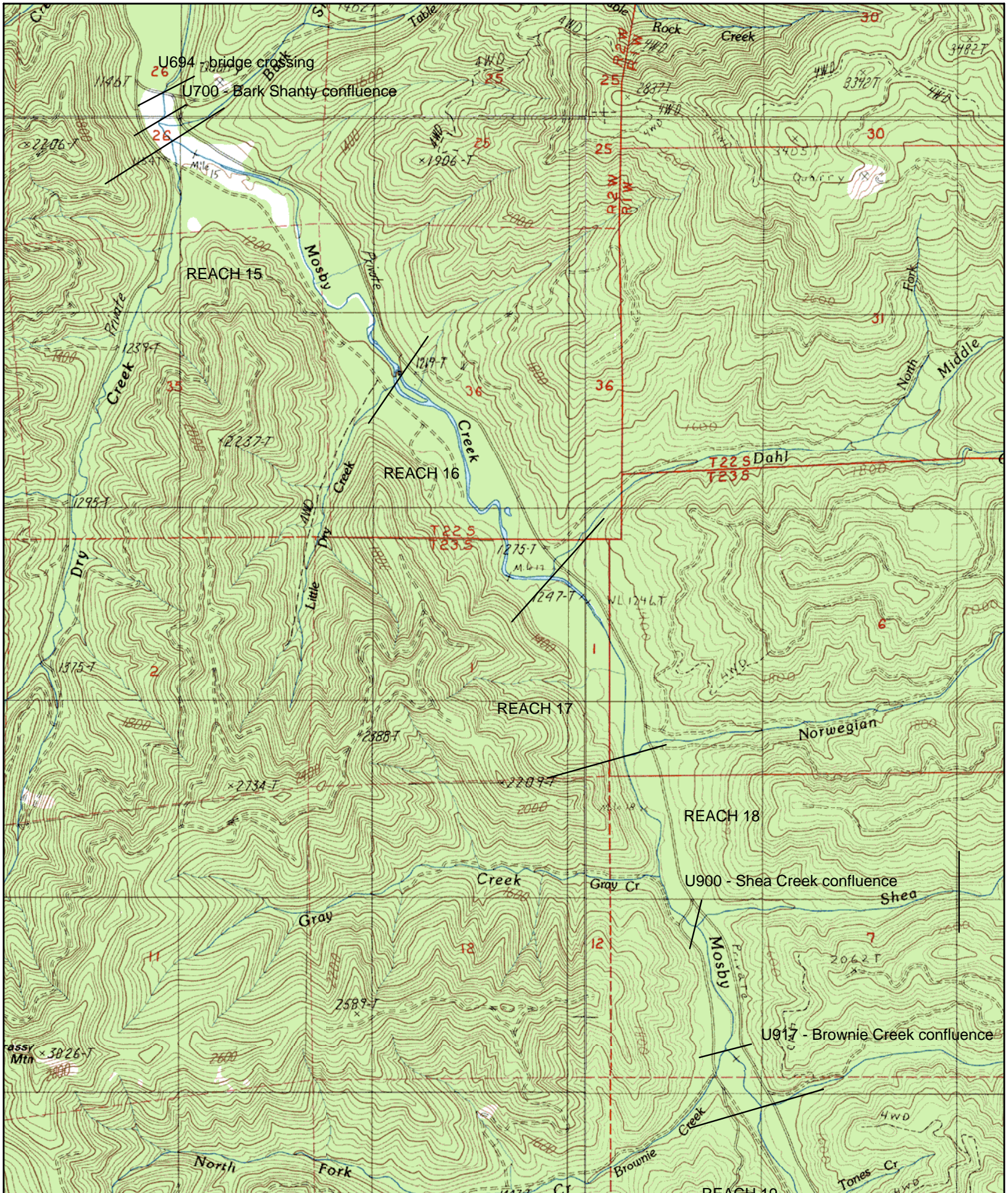
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 COAST FORK WILLAMETTE BASIN



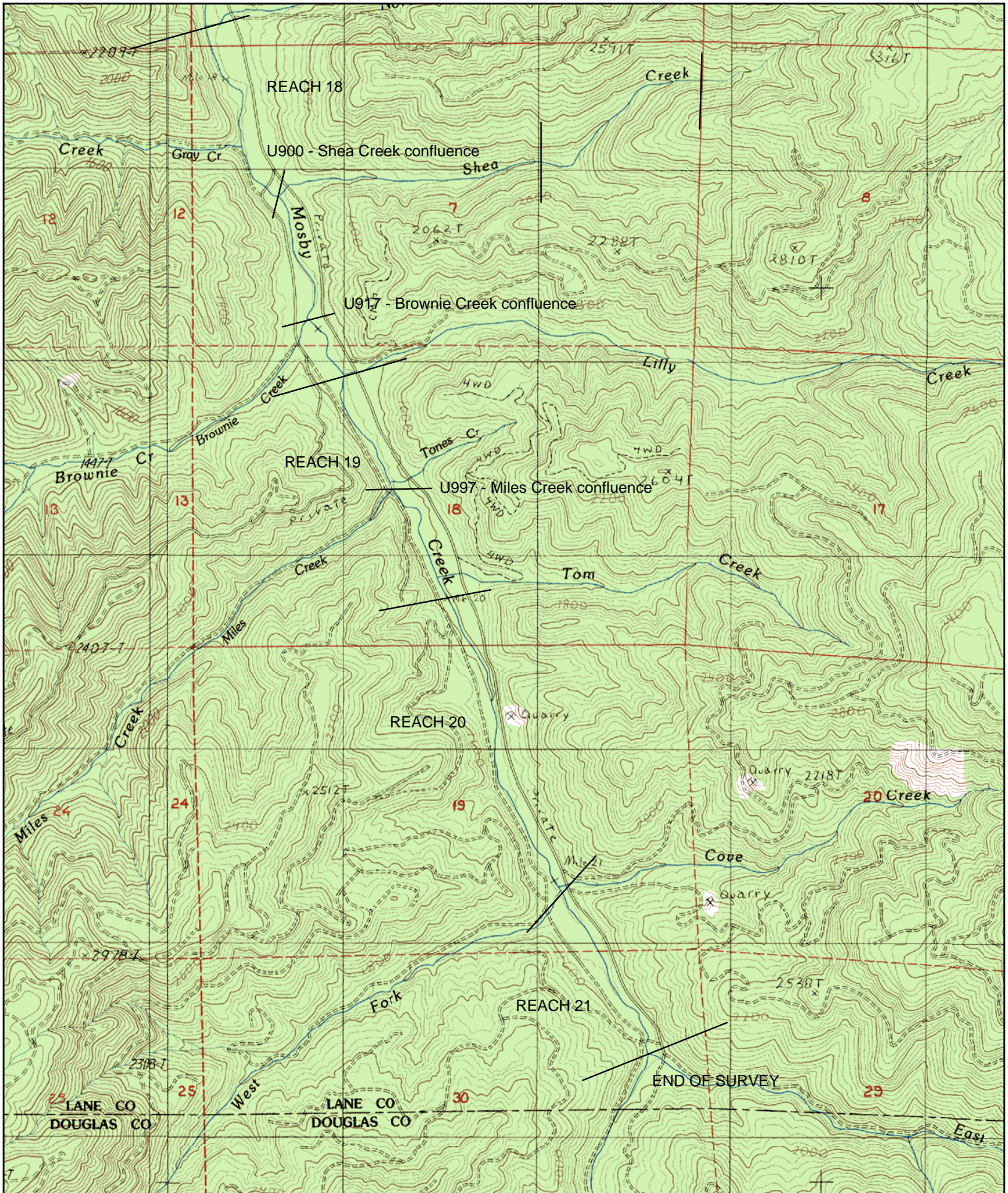
Name: BLUE MT (OR)
 Date: 11/10/2008
 Scale: 1 inch equals 2000 feet

Location: 10 0506924 E 4831396 N
 Caption: MOSBY CREEK 2008 HABITAT SURVEY
 COAST FORK WILLAMETTE BASIN



Name: BLUE MT (OR)
 Date: 11/10/2008
 Scale: 1 inch equals 2000 feet

Location: 10 0509668 E 4827528 N
 Caption: MOSBY CREEK 2008 HABITAT SURVEY
 COAST FORK WILLAMETTE BASIN



Name: BURNT MT (OR)
 Date: 11/10/2008
 Scale: 1 inch equals 2000 feet

Location: 10 0511828 E 4823766 N
 Caption: MOSBY CREEK 2008 HABITAT SURVEY
 COAST FORK WILLAMETTE BASIN