

Columbia Mainstem and Tributaries Implementation Schedule
Upper Columbia Salmon Recovery Plan

Assessment Unit	ID #	Limiting Factor	Action Type	Specific Actions	Location	Years 2008-2010	Years 2011-2013	Years 2014-2016	After Year 2017	Units	Cost/Unit	Estimated Costs	Actual Costs	Biological Tier	Status
Columbia Mainstem	CM 1000	Water Quality	Water Quality Improvement	Riparian Habitat Planting	Throughout Assessment Unit	303d listed, no specific actions identified	Evaluate	Implement as appropriate	Implement as appropriate						
Columbia Mainstem	CM 1010	Water Quality	Water Quality Improvement	Sewage Clean-Up Reduce Use of or Control Runoff of Pesticides, Road Chemicals, Fertilizers	City of Rock Island, Columbia River	Rock Island Sewage System Development									
Columbia Mainstem	CM 1020	Water Quality	Water Quality Improvement	Sewage Clean-Up Toxic Clean-Up	Throughout Assessment Unit	Develop and implement stormwater management plans	Implement and evaluate					\$ 225,000			
Columbia Mainstem	CM 1030	Sediment	Sediment Reduction	Erosion Control Structures Sediment Control	Throughout Assessment Unit	Evaluate and implement as appropriate Evaluate studies and programs (such as the Northern Pikeminnow reduction programs)	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 375,000			WRIA 50 Riparian Road Survey conducted in 2007 by Foster Creek Conservation District
Columbia Mainstem	CM 1040	Species Interaction	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout Predators Reduce or Re-distribute Native Predators	Throughout Assessment Unit		Implement as appropriate	Implement as appropriate	Implement as appropriate			\$ 50,000			
Douglas Co Tribs	CM 1050	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Foster and Douglas Creeks	Follow Watershed Planning Unit and WDOE recommendations to study surface water storage feasibility Remove debris and educate local citizens (East Wenatchee)	Implement and evaluate	Monitor and evaluate	Monitor and evaluate			\$ 75,000			Proposal submitted by Foster Creek CD to WDOE CRMP in 2008
Douglas Co Tribs	CM 1060	Water Quality	Water Quality Improvement	Refuse Removal	Sand Canyon, Reach 1	through volunteer efforts		Evaluate	Implement as appropriate			\$ 30,000			
Douglas Co Tribs	CM 1070	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Conservation Reserve Program Design and construct new channel and educational facilities along	Implement as appropriate	Implement as appropriate	Implement as appropriate			\$ 40,000			
Douglas Co Tribs	CM 1080	Habitat Diversity and Quantity	Instream	Channel Reconfiguration Channel Connectivity Off-Channel Habitat	Sand Canyon, Reach 1	Apple Capital Loop Trail	Evaluate and monitor	Evaluate and monitor	Evaluate and monitor			\$ 800,000			Sediment control structure #1 was implemented by Foster Creek Conservation District in 2006
Douglas Co Tribs	CM 1090	Habitat Diversity and Quantity	Instream	Channel Reconfiguration Channel Connectivity Off-Channel Habitat	East Fork Foster Creek	Identify in-channel improvements that	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 96,000			Foster Creek Conservation District implemented a slope stabilization project on the mainstem Foster Creek in 2007
Douglas Co Tribs	CM 1100	Habitat Diversity and Quantity	Riparian Habitat	Planting Recreation Management Livestock Exclusion Fencing	Throughout Assessment Unit	There are four specific actions listed in the Foster Creek/Moses Coulee Watershed Plan- please refer to that document.	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 150,000			
Douglas Co Tribs	CM 1110	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Greater East Wenatchee Area	Reclamation District improvements in the Greater East Wenatchee Area will potentially benefit Wenatchee River species and lower risks at outfalls.	Replace open conveyance systems to closed and/or pressurized	Evaluate and implement as appropriate				\$ 470,000			

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Douglas Co Tribs	CM 1120	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement Barriers (dams or log jams) Diversion Dam / Push-up Dam Removal	Moses Coulee from Jameson Lake to Columbia River	Continue/expand Moses Coulee studies for aquifer storage						\$ 62,500	
Douglas Co Tribs	CM 1130	Obstructions	Fish Passage	Culvert Improvements or Upgrades Weirs (log or rock)	Sand Canyon, Reach 1, Repair Barrier at Highway 28	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 150,000	
Chelan Co Tribs	CM 1140	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement Planting	Stemilt Creek, Colockum Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 470,000	
Chelan Co Tribs	CM 1150	Habitat Diversity and Quantity	Riparian Habitat	Recreation Management Livestock Exclusion Fencing	Stemilt Creek, Squilchuck Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 96,000	
Chelan Co Tribs	CM 1160	Habitat Diversity and Quantity	Instream	Channel Reconfiguration Channel Connectivity Off-Channel Habitat	Stemilt Creek, Squilchuck Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 800,000	
Chelan Co Tribs	CM 1170	Habitat Diversity and Quantity	Instream	Channel Reconfiguration Channel Connectivity Off-Channel Habitat Barriers (dams or log jams) Diversion Dam / Push-up Dam Removal	Colockum Creek	Conduct habitat survey	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 75,000	
Chelan Co Tribs	CM 1180	Obstructions	Fish Passage	Culvert Improvements or Upgrades Weirs (log or rock)	Stemilt Creek, Squilchuck Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 100,000	
Kittitas Co Tribs	CM 1190	Habitat Diversity and Quantity	Riparian Habitat	Planting Recreation Management Livestock Exclusion Fencing	Johnson Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 96,000	
Kittitas Co Tribs	CM 1200	Habitat Diversity and Quantity	Instream	Channel Reconfiguration Channel Connectivity Off-Channel Habitat Large Woody Debris	Johnson Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 950,000	
Kittitas Co Tribs	CM 1210	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection Barriers (dams or log jams) Diversion Dam / Push-up Dam Removal	Skookumchuck	Evaluate feasibility of a conservation easement	Implement as appropriate	Monitor and evaluate				\$ 40,000	
Kittitas Co Tribs	CM 1220	Obstructions	Fish Passage	Culvert Improvements or Upgrades Weirs (log or rock) Riparian Habitat Planting Reduce Use of or Control Runoff of Pesticides, Road Chemicals, Fertilizers	Johnson Creek	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 250,000	
Kittitas Co Tribs	CM 1230	Water Quality	Water Quality Improvement	Refuse Removal Sewage Clean-Up Toxic Clean-Up	Throughout Assessment Unit	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 200,000	
Kittitas Co Tribs	CM 1240	Water Quality	Riparian Habitat	Planting Recreation Management Fencing	Trinidad Creek (Lynch Coulee)	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 96,000	
Kittitas Co Tribs	CM 1250	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Trinidad Creek (Lynch Coulee)	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 75,000	
Kittitas Co Tribs	CM 1260	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration Barriers (dams or log jams) Diversion Dam / Push-up Dam Removal	Trinidad Creek (Lynch Coulee)	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 96,000	
Kittitas Co Tribs	CM 1270	Obstructions	Fish Passage	Culvert Improvements or Upgrades Weirs (log or rock)	Trinidad Creek (Lynch Coulee)	Determine if there is a barrier and feasibility of changing at Highway 28	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 175,000	

Proposal
submitted by
Foster Creek CD
to WDOE CRMP
in 2008

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Kittitas Co Tribs	CM 1260	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration Barriers (dams or log jams) Diversion Dam / Push-up Dam Removal	Trinidad Creek (Lynch Coulee)	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 96,000	
Kittitas Co Tribs	CM 1270	Obstructions	Fish Passage	Culvert Improvements or Upgrades Weirs (log or rock)	Trinidad Creek (Lynch Coulee)	Determine if there is a barrier and feasibility of changing at Highway 28	Evaluate and implement as appropriate	Evaluate and implement as appropriate	Evaluate and implement as appropriate			\$ 175,000	

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