

Wenatchee Watershed Implementation Schedule
Upper Columbia Salmon Recovery Plan and Wenatchee Watershed Plan

Assessment Unit	Action ID	Limiting Factor	Action Type	Specific Actions	Location	2008-2010	2011-2013	2014-2017	Long-term	Units	Estimated Costs	Actual Costs	Bio Strat Tier	Social Tier	Social Raw Score	Status	Notes/ Project Development Guide
Lower Wenatchee	LW-1000	Water Quality	Water Quality Improvement	Assessment	Throughout Assessment Unit	Work through TMDL process to evaluate / model affect of irrigation withdrawal on flow / water temperature relationship	Implement recommendations from TMDL				\$ 100,000		--	4	13	Model completed in TMDL assessment	
Lower Wenatchee	LW-1010	Water Quality	Water Quality Improvement	Check with TMDL	Throughout Assessment Unit		Implement recommendations from temperature TMDL				\$ 375,000		--	--			
Lower Wenatchee	LW-1030	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Implement as appropriate through current and future FSA programs in conjunction with WWPU	Implement as appropriate through current and future FSA programs in conjunction with WWPU	Implement as appropriate	Implement as appropriate					Same as LW 4 from old table?			
Lower Wenatchee	LW-1040	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Improve irrigation delivery and use efficiency	Implement as recommended by WWPU process	Implement as recommended by WWPU process	Implement as recommended by WWPU process				4	4	16		
Lower Wenatchee	LW-1050	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Conversion of small pumps to wells				wells			4	3	20		
Lower Wenatchee	LW-1060	Water Quantity	Instream Flow	Irrigation Practice Improvements Water Leased or Purchased	Throughout Assessment Unit	Provide incentives for conserving water - municipal							4	3	20		
Lower Wenatchee	LW-1061	Water Quantity	Instream Flow	Irrigation Practice Improvements Water Leased or Purchased	Throughout Assessment Unit	Provide incentives for conserving water - irrigation districts							4	4	14		
Lower Wenatchee	LW-1070	Water Quantity	Instream Flow	Water Leased or Purchased	Throughout Assessment Unit	Develop administrative structure for a water bank							4	4	14		
Lower Wenatchee	LW-1080	Water Quantity	Instream Flow	Water Leased or Purchased	Throughout Assessment Unit	Investigate water right purchase or lease							4	4	17		
Lower Wenatchee	LW-1090	Water Quantity	Instream Flow	Assessment	Throughout Assessment Unit	Assess influence of groundwater withdrawals on surface water				studies			--	--	--		
Lower Wenatchee	LW-1100	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Sleepy Hollow to Monitor (CMZ 6, highway)	Assess feasibility of reconnection side channels under Highway 2			Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat				1	2	21	Funded for Alternatives Analysis for 2008	
Lower Wenatchee	LW-1110	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Above Sleepy Hollow (side channel spring river Left)	Assess feasibility/Design	Implement	Monitor	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	2	21		
Lower Wenatchee	LW-1120	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Near Monitor (CMZ?, Pioneer diversion)	Evaluated in 2007	Re-evaluate	Design and Implement	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	3	20		
Lower Wenatchee	LW-1130	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Cashmere (Barrow pits)		Evaluate	Design and Implement	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	3	20		
Lower Wenatchee	LW-1140	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Below Dryden Dam (CMZ?)	Implemented 2006	Monitor, evaluate and adaptively manage		Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles		Talk to Steve Hayes	1	3	20	Completed 2006/7 by CCPUD	
Lower Wenatchee	LW-1150	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Gagnon	Implemented 2007	Monitor, evaluate and adaptively manage		Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			--	--	--	Completed 2007	

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Lower Wenatchee	LW-1160	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat		Implement high priority CMZ projects		Evaluate and Prioritize	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	3	20		Based on recommendation from RTT, hold off on back-channel projects until monitoring and effectiveness data from Gagnon are evaluated.
Lower Wenatchee	LW-1161	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 11	Implement 2008							--	--	--	Funded for construction in 2008	BPA?
Lower Wenatchee	LW-1162	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 12/13	Implement 2008							--	--	--	Funded for construction in 2008	
Lower Wenatchee	LW-1163	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 2 (Goodfellow)	Design, seek funding and implement	Monitor, evaluate and adaptively manage						--	--	--	Seeking funding	Design being re-done based on RTT review
Lower Wenatchee	LW-1164	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 17 (confluence of Peshastin Crk)	Alternatives Analysis										Funded for Alternatives Analysis for 2008	Implementation will depend on outcome of alternatives analysis
Lower Wenatchee	LW-1165	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 20 (confluence of Icicle Crk)	Alternatives Analysis										Funded for Alternatives Analysis for 2008	Implementation will depend on outcome of alternatives analysis
Lower Wenatchee	LW-1170	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit and associated with CMZ sites	Evaluate high risk areas and prioritize (see CMZ Study)							1	--	--		
Lower Wenatchee	LW-1163	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	CMZ 2 (Goodfellow)	Seek funding and implement										Design completed? Seeking funding	This project includes both protection and active restoration, so its listed twice

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Lower Wenatchee	LW-1180	Habitat Diversity and Quantity	Riparian Habitat	Planting Forestry Practices or Stand Management Weed Control Livestock Exclusion	Throughout Assessment Unit	Implement in conjunction with CMZ projects and others as appropriate			Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	acres/line ar foot			3	1	24		
Lower Wenatchee	LW-1181	Habitat Diversity and Quantity	Riparian Habitat	Planting	Leavenworth Golf Course	Implemented 2007	Monitor, evaluate and adaptively manage				\$24,400 (Golf Course)	--	--	--		2,380 linear feet completed (Golf Course) Funded for implementation in 2008	Specify type of labor, other things that affect total cost
Lower Wenatchee	LW-1182	Habitat Diversity and Quantity	Riparian Habitat	Planting	Irwin Riparian (across from Blackbird Is.)	Scheduled for 2008							--	--	--		
North Side Tributaries	NST-1190	Habitat Diversity and Quantity	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	Throughout Assessment Unit		Evaluate, design and implement	Monitor		miles	\$ 200,000		--	4	14		SB difficult to rank
North Side Tributaries	NST-1200	Habitat Diversity and Quantity	Fish Passage	Barriers Culvert Improvements or Upgrades Road Crossings (bridges) Diversion Dam or Push-Up Dam Removal	Throughout Assessment Unit	Update barrier inventory and assess potential projects	Implement	Monitor	Monitor	miles	\$ 550,000		--	--	--		
North Side Tributaries	NST-1201	Habitat Diversity and Quantity	Fish Passage	Culvert Improvement or Upgrade	Derby Creek											Four culverts replaced on NF lands on Derby Creek in 2006 (Fischer Fire Recovery).	This may need to go into "past" projects.
North Side Tributaries	NST-1210	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvements	Throughout Assessment Unit	Evaluate options such as use of out-of-basin water, pumping from lower Wenatchee reserve, PUD hookup, deep groundwater, storage, water right purchase					\$ 75,000		--	--	--		
Mission Creek	MC-1220	Water Quality	Water Quality Improvement	Assessment	Throughout Assessment Unit		Evaluate BOD and affect to DO	Implement corrective measures as identified through WWPU	Implement corrective measures as identified through WWPU	studies	\$ 75,000		--	--	--		
Mission Creek	MC-1230	Water Quality	Water Quality Improvement	Assessment	Throughout Assessment Unit		Monitor fish health / toxicology	Implement corrective measures as identified through WWPU	Implement corrective measures as identified through WWPU	studies	\$ 50,000		--	--	--		
Mission Creek	MC-1240	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Education program to determine BMPs for domestic and agri-business practices	Identify opportunities and implement as appropriate		All irrigation delivery and use systems at optimal efficiency		\$ 26,000		3	1	25		
Mission Creek	MC-1250	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Increase Irrigation efficiency					\$ 150,000		3	4	16		Some opportunities will be identified through storage analysis, LW-1260
Mission Creek	MC-1260	Water Quantity	Instream Flow	Water Leased or Purchased	Peshastin and Icicle Creeks	Evaluate storage from other watersheds	Determine feasibility	Secure funding and support	Implement		\$ 75,000		3	--	--	Assessment being done in 2008/09	A water storage needs and alternatives analysis is being done through the WQN/ISF Subcommittee
Mission Creek <i>repeat of MC-1240 removed</i>	MC-1270	Water Quantity	Instream Flow	Water Leased or Purchased	Throughout Assessment Unit	Evaluate effects and identify areas where feasibility exists	Implement				\$ 286,000		3	3	20		
Mission Creek	MC-1290	Habitat Diversity and Quantity	Riparian Habitat	Weed Control	Throughout Assessment Unit	Evaluate Japanese Knotweed removal and implement as appropriate	Continue control program	Continue control program	Continue control program	acres	\$ 10,000		4	3	20		

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Mission Creek	MC-1300	Habitat Diversity and Quantity	Riparian Habitat	Planting	Throughout Assessment Unit	Implement as opportunities arise	Implement as opportunities arise						4				
Mission Creek	MC-1301	Habitat Diversity and Quantity	Riparian Habitat	Planting	Implement IRIS program on Mainstem between RM 4-6	Evaluate feasibility of program					\$ 96,000		4	NR			Need more info on IRIS Program
Mission Creek	MC-1302	Habitat Diversity and Quantity	Riparian Habitat	Planting	Throughout Assessment Unit	Monitor					\$20,000 as of 2007		4			1,950 linear feet planted in 2007	
Mission Creek	MC-1310	Habitat Diversity and Quantity	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	NF Roads		Road Analysis	Roads Analysis and implementation (USFS)	Reduce road imposition on channel function to the extent practical	miles	\$ 100,000		4	3	20		
Mission Creek	MC-1320	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Between RM 4 and RM 6			Evaluate		miles	\$ 100,000		4	4	17		
Mission Creek	MC-1330	Habitat Diversity and Quantity	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	County / City and (2-3 miles Brender)	Assess and reduce road interferences with channel function			Reduce road imposition on channel function to the extent practical	miles	\$ 30,000		4	4	17		
Mission Creek	MC-1340	Habitat Diversity and Quantity	Instream	Channel Reconfiguration	Mission - Mouth to NF Boundary			Evaluate		structures	\$ 500,000		3	2	21	Cross Vanes completed 2007	Get info from CCD
Mission Creek	MC-1350	Habitat Diversity and Quantity	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration Weirs (log or rock) Diversion Dam or Push-up Dam Removal	Throughout Assessment Unit	Check with barrier inventory to identify locations E. Fork, Little Camas, lower mainstem?)	Focus on Little Camas (NF) road, 1 culvert needs work		Restore passage to all available spawning and juvenile rearing areas	miles	\$ 560,000		4	1	25		Consider number of projects necessary to open passage and length of passage open. Refer to barrier inventory. 2 culverts on Lower Sand and one on Little Camas replaced in 2002 by USFS
Peshastin Creek	PC-1360	Water Quantity	Instream Flow	Irrigation Practice Improvements	Tandy Ditch and PID (efficiency) incorporate existing irrigation district facility improvement plans	Assess	Implement as appropriate	Complete	All irrigation delivery and use systems at optimal efficiency.		\$ 550,000		1	2	21		Flow improvement targets should be discussed in coordination with potential instream modifications and WQN/ISF Subcomm.
Peshastin Creek	PC-1361	Water Quantity	Instream Flow	Irrigation Practice Improvements	Peshastin Irrigation District, lower part of canal	Convert 9,900 feet of open canal to pipe							1	2	21	Funding secured	
Peshastin Creek	PC-1370	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Assess efficiencies and identify funding sources.	Implement as appropriate	Implement as appropriate	Complete		\$ 250,000		1	4	15		Need details on specific projects. Overall goal to increase flows is the same, but various approaches may rank differently. Work with WQN/IF Subcomm.
Peshastin Creek	PC-1380	Water Quantity	Instream Flow	Water Lease or Purchased Change Point of Diversion	Throughout Assessment Unit	Evaluate options such as use of storage, changed point of diversion, water right purchase or lease.	Implement education program to conserve water use through domestic and agri-business practices				\$ 102,000		1	NR	--		
Peshastin Creek	PC-1390	Habitat Diversity and Quantity	Instream	Channel Reconfiguration	Mouth to Ingalls (20 - 30 structures)	USBR conducting fluvial assessment to identify opportunities. Evaluate and prioritize results	Implement 2-4 per year as appropriate	Implement 2-4 per year as appropriate	Complete 20 - 30 structures	structures	\$ 450,000		1	3	20	USBR assessment 2008/09	improving overall function is hard with the highway. This type of project would require more maintenance and permitting issues. Same project as PC-1450. Coordinate with instream flow improvements
	PC-1400																
Peshastin Creek	PC-1410	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Lower Peshastin (mouth to RM 1)	Alternatives Analysis	Implement action as appropriate	Implement action as appropriate	Improve side-channel habitat and provide high flow refugia	miles	\$ 500,000		4	4	15		Complex project, so feasibility ranked low. Alternatives analysis funded for 2008 CMZ 17, same as LW-1164

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Peshastin Creek	PC-1411	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Ingalls Creek to RM 1	USBR conducting fluvial assessment to identify opportunities. Evaluate and prioritize results							1	3	19	USBR assessment 2008/09	Coordinate with instream flow improvements
Peshastin Creek	PC-1420	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Downstream of Ingalls Creek	Evaluate potential site selection	Acquire easements and connect floodplain as opportunities arise.	Acquire easements and connect floodplain as opportunities arise.		miles	\$ 800,000		1	--	--		
Peshastin Creek	PC-1430	Habitat Diversity and Quantity	Riparian Habitat	Forestry Practices or Stand Management Planting Recreation Management	Throughout Assessment Unit	Assessment for shade and channel structure, plantings as opportunities arise	Plantings in conjunction with side channel connection, pool formation and flow improvements	Identify and reduce practices having negative effects as appropriate.	USFS incorporates appropriate conservation strategies in review/acceptance of annual operating plans for mines and other practices on NF land..	acres	\$ 50,000		4	--	--		
Peshastin Creek	PC-1440	Habitat Diversity and Quantity	Sediment Reduction	Road Relocation Road Obliteration Road Stream Crossing Improvements Sediment Control	Above Ingalls Creek and Upper Tributaries	Assessment for road channel structure (focus on NF - tributaries above Ingalls)	Implement action as appropriate	Implement action as appropriate	Minimize road affects to stream channel and riparian function as practical.	miles	\$ 150,000		--	--	--		
Peshastin Creek	PC-1450	Obstructions	Fish Passage	Channel Reconfiguration	Structures at and below PID (10 structures)	USBR conducting fluvial assessment to identify opportunities. Evaluate and prioritize results	Implement as appropriate from assessment	Complete		structures	\$ 150,000		1	3	20	USBR assessment 2008/09	Same as PC-1390
Peshastin Creek	PC-1460	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Mill Creek, Ruby and Scotty Creek	Check with barrier inventory. Assess and engineer	Implement	Complete		miles	\$ 240,000		4	1	25		more info is needed on Mill Crk to determine extent of potential SH rearing and flow regime
Chumstick Creek	CC-1470	Water Quality	Water Quality Improvement	Refuse Removal	Throughout Assessment Unit	Remove metallic and other debris from stream channel.	Implement as opportunities become available.	Implement as opportunities become available.	Implement as opportunities become available.		\$ 25,000		--	--	--		Not a limiting factor so not scored. Should be a good thing to do watershed-wide.
Chumstick Creek	CC-1480	Water Quantity	Instream Flow	Assessment	Throughout Assessment Unit	Conduct a surface/ground water interaction study	Develop and implement strategies to meet instream and out-of-stream needs	Evaluate and implement as appropriate	Evaluate and implement as appropriate	studies	\$ 75,000		--	--	--	Funded Jan. 2008 - June 2009	This study is being done through the WQN/ISF Subcommittee

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Chumstick Creek	CC-1490	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Education program to conserve water use through domestic and agri-business practices					\$ 26,000		1	1	25		
Chumstick Creek	CC-1500	Riparian	Riparian Habitat	Fencing Lifestock Exclusion Conservation Grazing Management	Throughout Assessment Unit	Evaluate and implement as appropriate			Restore approximately 4 miles of riparian from the confluence with the Wenatchee up stream to Little Chumstick. Additionally restore approximately 1 mile of native vegetation in Eagle Creek	miles	\$ 100,000		2	2	21		
Chumstick Creek	CC-1510	Riparian	Riparian Habitat	Weed Control	Throughout Assessment Unit	Evaluate and implement as appropriate			Restore approximately 4 miles of riparian from the confluence with the Wenatchee up stream to Little Chumstick. Additionally restore approximately 1 mile of native vegetation in Eagle Creek	miles	\$ 25,000		2	3	19		
Chumstick Creek	CC-1520	Riparian	Riparian Habitat	Planting	Selected areas: Eagle Cr - to Little Chumstick	Evaluate and implement as appropriate	Evaluate and implement as appropriate		Restore approximately 4 miles of riparian from the confluence with the Wenatchee up stream to Little Chumstick. Additionally restore approximately 1 mile of native vegetation in Eagle Creek	acres	\$ 5,000		2	2	22		Use FLIR and aerial photo analysis to select locations (available from CCNRD), coordinate with WQL Subcomm.
Chumstick Creek	CC-1521	Riparian	Riparian Habitat	Planting	17 landowners within selected areas	Complete and monitor	Monitor					\$73,250 as of 2007	2	2	22	7,140 linear feet planted in 2007	
Chumstick Creek	CC-1530	Sediment	Sediment Reduction	Road Drainage System Improvements Erosion Control Structures Road Obliteration	Tributaries and upper watershed			Evaluate and implement		miles	\$ 200,000		2	4	17		SB score assumed this would entail obliterating USFS roads. Feasibility is affected by internal FS issues, funding limitations. Chumstick is not a priority.
Chumstick Creek	CC-1540	Habitat Diversity and Quantity	Instream	Off-Channel Habitat	Watershed wide	Reconnect side-channel			Increase of channel and high flow refugia habitat	miles	\$ 80,000		3	4	17		

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Chumstick Creek	CC-1550	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Mainstem Chumstick			funding secured	Top Priority within the Chumstick Watershed	structures	\$ 180,000		2	1	24		Refer to barrier inventory and USFWS for locations
Chumstick Creek	CC-1551	Obstructions	Fish Passage	Culver Improvements or Upgrades	Mainstem Chumstick	13 scheduled for 2009										Funding secured for 2009 construction	
Chumstick Creek	CC-1560	Obstructions	Fish Passage	Culvert Improvements or Upgrades	North Road, Lower Chumstick	scheduled for 2010				structures	\$1,200,000		1	1	29	funding being secured by CC Public Works	Top priority in Chumstick Creek
Icicle Creek	IC-1570	All	Assessment	Icicle Watershed Evaluation	Mouth to Boulder Field	Evaluation of sediment budget, appropriate channel migration and sequence of actions	Implement	Implement		studies	\$ 500,000		--	--	--		Tentatively scheduled by USBR after Nason and Peshastin are completed
Icicle Creek	IC-1580	Water Quality	Water Quality Improvement	TBD	Throughout Assessment Unit	Education program to determine BMPs for domestic and agri-business practices					\$ 26,000		--	1	25		
Icicle Creek	IC-1590	Water Quality	Water Quality Improvement	TBD	Throughout Assessment Unit	Implement recommendations from TMDL							--	2	21		Original action was to reduce nutrient loads; however it is unclear if that is a limiting factor
Icicle Creek	IC-1600	Water Quantity	Instream Flow	Water Lease or Purchased Irrigation Practice Improvement	Throughout Assessment Unit	Work with irrigation districts to increase irrigation delivery and use efficiency	Implement as appropriate				\$ 600,000		2	4	16		
Icicle Creek	IC-1610	Water Quantity	Instream Flow	Water Lease or Purchased Irrigation Practice Improvement	Cascade and hatchery pipe (USFWS)	Improve intake, providing pump back (20 cfs) and improving the delivery pipe	Implement as appropriate				\$6,100,000		2	2	21		
Icicle Creek	IC-1620	Habitat Diversity	Riparian Habitat	Planting Weed Control	Below hatchery	500-1000 feet per year	500-1000 feet per year	500-1000 feet per year		acres	\$ 26,000		4	2	23		Highly erosive areas that contribute large amounts of sediment are a higher priority, see IC-1640.
Icicle Creek	IC-1630	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Below hatchery	Evaluate opportunities and acquire as available	Evaluate opportunities and acquire as available				\$1,200,000		3	1	24		
Icicle Creek	IC-1640	Sediment	Sediment Reduction	Riparian Planting Sediment Control	Below hatchery	Evaluate overall need	Implement as opportunities arise	Implement as opportunities arise	Restore all stream banks where feasible	miles	\$ 300,000		2	3	18		The priority (over IC-1620) are erosive areas contributing large amounts of sediment
Icicle Creek	IC-1641	Sediment	Sediment Reduction	Riparian Planting Sediment Control	Fromm	Implemented 2007, monitor	Monitor, evaluate and adaptively manage					\$14,450				740 linear feet planted in 2007	
Icicle Creek	IC-1650	Sediment	Sediment Reduction	Road Obliteration	Trout Creek (USFS)	Evaluate feasibility	Obliterate/reconstruct approx 4 miles			miles	\$ 200,000		2	2	23		Road is failing, some preliminary assessment work is done.

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Icicle Creek	IC-1660	Habitat Diversity and Habitat Quantity	Instream	Off-Channel Habitat	Reconnect side channel above LNFH between headgate and dam 5	Complete (USFWS)	Monitor, evaluate and adaptively manage			miles	\$5,200,000		2	3	18	Structures between headgate and dam 5 removed in 2003	Is this action completed or is there more to do?
Icicle Creek	IC-1665	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	From mouth to Hatchery		Implement as appropriate						3				
Icicle Creek	IC-1670	Obstructions	Fish Passage	Fishways	Dam 5 and Headgate	Restore passage at dam 5 and headgate	Complete				\$ 300,000		2	1	24	permitting is underway by USFWS?	
Icicle Creek	IC-1680	Obstructions	Fish Passage	Fishways	Assess all irrigation structures in conjunction with appropriate irrigation districts	Evaluate, design and implement where appropriate	Evaluate, design and implement where appropriate	Complete			\$ 300,000		2	--	--		Not sure what the actual action/location is.
Icicle Creek	IC-1690	Obstructions	Fish Screening	Fish Screen Replacement	Replace Icicle/ Leavenworth and LNFH-Cascade screens	Complete LNFH (USFWS)	Complete Ice-Peshastin				\$ 300,000		3	2	22		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1700	Habitat Quantity (mainstem Wenatchee)	Riparian Habitat	Planting	Associated with some residential development (above Tumwater Canyon)	100 - 500 feet per year	100 - 500 feet per year	100 - 500 feet per year	Riparian vegetation intact and elevated stream bank erosion checked.	acres	\$ 15,000		--	2	23		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1710	Habitat Quantity (mainstem Wenatchee)	Instream	Off-Channel Habitat	NF Road above Tumwater Canyon.	USBR fluvial assessment. Evaluate the need and feasibility of lower River Road modification/relocation	Evaluate the need and feasibility of lower River Road modification/relocation	Complete	River Road imposition on river and floodplain function minimized.	miles	\$ 150,000		3	--	--		SB scoring deferred based on USFS planning efforts
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1720	Habitat Quantity (mainstem Wenatchee)	Instream	Log Structure or Log Jam	upper Mainstem	USBR fluvial assessment to identify opportunities. Evaluate benefit and feasibility and prioritize results	Implement 2-3 structures and monitor fish use for pilot.	Implement 2-3 additional structures per year.	Approximately 15 - 20 additional LWD complexities.	structures	\$ 60,000		1	3	19		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1725	Habitat Quantity (mainstem Wenatchee)	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	mainstem Middle and Upper Wenatchee	Implement as appropriate							1				

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Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1730	Habitat Diversity (Chiwaukum)	Riparian Habitat	Recreation Management Weed Control Planting Fencing	NF Campground		Evaluate campground relationship to river function	Implement Recommendations		studies	\$ 150,000		3	--	--		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1740	Habitat Diversity (Chiwaukum)	Instream	Channel Reconfiguration Plant Removal or Control	Lower sections (of chiwaukum or Skinney?...sounds like Skinney habitat)	Evaluate and obtain permission to remove old earth dikes, canary reed grass, reestablish channel's and native vegetation.	Design, acquire permits and approval	Implement and monitor		miles	\$ 895,000		--	--	--		Several project types lumped. Need to rank (SB) each type individually. Not a limiting factor.
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1741	Habitat Diversity (Chiwaukum)	Instream	Channel Reconfiguration	Skinney Creek (RM 0.0-0.5)	ID funding source to partner w/ WSDOT	Implement										Opportunity to remove section of existing HWY 2 and rehabilitate Skinney Creek to historic channel and pattern. Associated with WSDOT preferred alternative for US2 Chiw. Crk bridge replacement
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1750	Obstructions (Chiwaukum)	Fish Passage	Culvert Improvements or Upgrades	Skinny Creek	Implement	monitor			structures	\$ 160,000		--	1	25	Upper Skinny Completed 2006	Lower Skinny tied to WSDOT bridge replacement. See UW-ChiwC-1741
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1760	Obstructions (Beaver Creek)	Fish Passage	Culvert Improvements or Upgrades	6 culverts starting at RM 0.3 (others within potential fish distribution?)	Determine rank among Wenatchee priorities. Implement 1-2 per year in years 2-3	Continue to implement at 1-2 per year until finished	Finalize implementation and maintain all improvements	Monitor and maintain	structures	\$ 300,000		4	1	25		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1761	Obstructions (Beaver Creek)	Fish Passage	Culvert Improvements or Upgrades	Beaver Complex #1, #2, #3	Implement	monitor						4	1	25	Beaver 1&3 completed 2007. #2 funded and scheduled for 2008	
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1762	Obstructions (Beaver Creek)	Fish Passage	Culvert Improvements or Upgrades	Chiwawa Loop Rd.	Implement	monitor						4	1	25	Funded and scheduled for 2008	CC Public Works
Chiwawa River	CR-1770	Habitat Quantity	Instream	Channel Connectivity Off-Channel Habitat	Chikamin Flat	Evaluate	Implement			miles	\$ 800,000		4	3	19	Project being developed by USFS w/landowner	Cooperative landowner already working with USFS. Not much maintenance needed.

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Chiwawa River	CR-1780	Habitat Quantity	Sediment Reduction	Road Drainage System Improvements Erosion Control Structures	Lower Watershed and Tributaries	Evaluate	Implement	Implement			\$ 200,000		--	--	--	Assessment completed above Chikamin Creek.	
Chiwawa River	CR-1790	Habitat Quantity	Riparian Habitat	Recreation Management	NF campsites - middle/upper watershed	Implement, monitor, adaptively manage	Monitor, evaluate, adaptive mgt	On-going	Riparian vegetation intact, public access maintained, salmon and bull trout harassment reduced during spawning.	acres	\$ 25,000	\$115,000	4	--	--	Completed by USFS 2006-07	See comment attached to cell
Chiwawa River	CR-1800	Habitat Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Lower 4 miles of Chiwawa	Implement as appropriate	Implement as appropriate	Implement as appropriate			\$2,300,000		1	3	19		SB score differs by Assessment Unit based on landowner willingness/feasibility. Each community is different
Chiwawa River	CR-1810	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Clear, Minnow, Alder, and Deep creeks	Evaluate future, complete those in progress	Implement future	Complete		structures	\$ 480,000		3	1	25		Discuss brook trout with Minnow and Deep Creeks
Chiwawa River	CR-1811	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Clear Creek #1, #2 & #3	Implement	monitor									Completed 2007	
Chiwawa River	CR-1812	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Alder Creek #1 & #2	Implement	monitor									Completed 2007	
Chiwawa River	CR-1820	Species interaction	Reduce or Eliminate Non-native Species	Reduce or Eliminate Brook Trout	Brook Trout in Minnow and Schaefer Lakes	Evaluate approach	Implement	On-going control		studies	\$ 50,000		3	4	5		Very difficult to implement. Gaining community support would take time to educate the public.
Chiwawa River	CR-1830	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		Needs further evaluation and discussion. It's difficult to retain carcasses. Will need to be able to "win" community support through education. Needs long-term monitoring. A potential permitting issue with increased P levels and pH/DO TMDL downstream.
Nason Creek	NC-1840	All	Assessment	Nason Watershed Evaluation	Primarily below White Pine	Evaluation of sediment budget, appropriate channel migration and sequence of actions	Implement	Implement		studies	\$ 175,000		--	--	--	Completed by USBR 2007	
Nason Creek	NC-1850	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Mouth to White Pine Creek	Ongoing, acquire as available or based on USBR Assessment					\$2,300,000		1	2	22		See notes under CR-1800
Nason Creek	NC-1860	Habitat Diversity	Riparian Habitat	Forestry Practices or Stand Management Planting	Mouth to Whitepine Creek	Evaluate specific need and develop schedule based on USBR Assessment				acres	\$ 86,000		2	2	23		Projects need to be developed in the right place. There are some locations that may not be appropriate.

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Nason Creek	NC-1870	Habitat Diversity	Instream	Channel Reconfiguration	Mouth to Whitepine Creek	Evaluate specific need and develop schedule based on USBR Assessment				structures	\$ 150,000		1	2	21		Under old action, "increase LWD": potential permitting issues, need to communicate safety to public. These would be active projects with shorter-term effects, so we need to understand expectations.
Nason Creek	NC-1880	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Mouth to White Pine Creek	Implement and evaluate natural and/or historic lower Nason side/off channel habitats	implement one side/off channel project per year		Increase side-channel habitat by 2 miles and 8 miles of in-stream habitat	miles	\$ 700,000		1	2	21		
Nason Creek	NC-1881	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Mouth to White Pine Creek	Develop process for implementing projects with BNSF	Apply process to specific projects									Funded, project underway	
Nason Creek	NC-1881	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Nason Oxbow CMZ N2/3 (check #)	Completed 2007	Monitor, evaluate, adaptive mgt	Monitor, evaluate, adaptive mgt					--	--	--	Completed 2007	
Nason Creek	NC-??	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Nason CMZ 4	Analysis scheduled for 2008							--	--	--	Funded for analysis	
Nason Creek	NC-1890	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Coulter/Roaring (Railroad Crossing)	Evaluate feasibility, look at USBR Assessment and Barrier Study	Implement if appropriate		Improve passage throughout the watershed	miles	\$ 50,000		2	1	25		
Nason Creek	NC-1900	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Mill Creek	Evaluate feasibility, look at Barrier Study			Improve passage throughout the watershed	miles	\$ 50,000		2	1	25		Get specific locations
Nason Creek	NC-1901	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Mill Creek - Westbound HW2	Monitor										Completed in 2006	Completed by WSDOT
Nason Creek	NC-1910	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Gill and Roaring Creeks (lower reaches)	Evaluate feasibility, look at USBR Assessment and Barrier Study			Improve passage throughout the watershed	miles	\$ 100,000		2	1	25		Check status of Highway culverts
Nason Creek	NC-1920	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		See notes under CR-1830
Little Wenatchee River	LitWR-1930	Sediment	Sediment Reduction	Road Relocation Road Obliteration Road Drainage System Improvements	Throughout Assessment Unit	Fund NEPA to implement USFS Roads Analysis recommendations	Implement	continue to implement		miles	\$ 150,000		2	3	18		Road closure recommendations are contingent on USFS completing silvicultural prescriptions to accelerate late successional characteristics in harvest plantations.
Little Wenatchee River	LitWR-1940	Sediment	Riparian Habitat	Planting Forestry Practices or Stand Management	Throughout Assessment Unit	Evaluate need	Implement as opportunities arise			acres	\$ 80,000		3	1	25		Could be tied to Tier 3 Bio Strat rec.
Little Wenatchee River	LitWR-1950	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		See notes under CR-1830
Little Wenatchee River	LitWR-1960	Habitat Diversity	Riparian Habitat	Recreation Management Planting	Dispersed recreation sites below Little Wenatchee Falls	Assess, design, permit, implement	continue to implement, monitor, evaluate, adaptive mgt	Monitor and maintain		acres	\$ 25,000		2	1	24		Access to two of three known trouble sites barricaded with boulders. Need to continue monitoring, access becoming an issue with kayaking groups.
Little Wenatchee River	LitWR-1970	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	lower assessment unit	Acquire conservation easements and pursue other innovative measures as opportunities arise	Acquire easements where available.						1	--	--		See notes under CR-1800

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White River	WhR-1980	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Lower mainstem	Acquire conservation easements and pursue other innovative measures	Acquire easements where available.	Acquire easements where available.	Protect and maintain existing excellent spawning and rearing habitat.		\$2,300,000		1	1	24	Check with CDLT on status	See notes under CR-1800.
White River	WhR-1990	Habitat Diversity	Riparian Habitat	Planting	Mouth to Sears Ck	valuate specific need and develop schedule. Implement approximately 500 feet per year as appropriate	Plantings 500 feet per year.	Plantings 500 feet per year.		acres	\$ 20,000		1	2	23		focus plantings in flood plain areas, residential development, and impacted side-channel habtiat
White River	WhR-2000	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		See notes under CR-1830
White River	WhR-2010	Habitat Diversity and Quantity	Instream	Streambank Stabilization Channel Connectivity Off-Channel Habitat	Below Sears Creek								1	--	--		Check with CDLT and WDFW
White River	WhR-2011	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	White River Oxbow above Sears Crk. NF land	Monitor, Evaluate and adaptively manage	Monitor, evaluate, adaptively manage									Completed 2005	1.5 mile road obliteration (0.75 miles of diked road in floodplain), removed 3 undersized culverts in floodplain and re-connected 1/2 mile of oxbow
White River	WhR-2112	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Upper Canyon Roads above Sears Creek	Monitor, Evaluate and adaptively manage	Monitor, evaluate, adaptively manage									Completed 2005	3.5 miles of road obliteration and 27 culverts removed to restore hydrologic function and wetland connectivity
White River	WhR-2113	Habitat Diversity and Quantity	Instream	Streambank Stabilization Channel Connectivity Off-Channel Habitat	White River bank stabilization on NF land above Sears Creek	Monitor, Evaluate and adaptively manage	Monitor, evaluate, adaptively manage									Completed 2005	Installed 120 pieces of LWD over 110 ft of stream bank to maintain pools and provide high flow refuge
White River	WhR-2020	Habitat Diversity and Quantity	Off Channel Wetlands	Wetland Improvement and Enhancement Wetland Restoration	Below Sears Creek								1	--	--		Check with CDLT and WDFW

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Lower Wenatchee	LW-1000	Water Quality	Water Quality Improvement	Assessment	Throughout Assessment Unit	Work through TMDL process to evaluate / model affect of irrigation withdrawal on flow / water temperature relationship	Implement recommendations from TMDL				\$ 100,000		--	4	13	Model completed in TMDL assessment	
Lower Wenatchee	LW-1010	Water Quality	Water Quality Improvement	Check with TMDL	Throughout Assessment Unit		Implement recommendations from temperature TMDL				\$ 375,000		--	--			
Lower Wenatchee	LW-1030	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Implement as appropriate through current and future FSA programs in conjunction with WWPU	Implement as appropriate through current and future FSA programs in conjunction with WWPU	Implement as appropriate	Implement as appropriate				4	Same as LW 4 from old table?			
Lower Wenatchee	LW-1040	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Improve irrigation delivery and use efficiency	Implement as recommended by WWPU process	Implement as recommended by WWPU process	Implement as recommended by WWPU process				4	4	16		
Lower Wenatchee	LW-1050	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Conversion of small pumps to wells				wells			4	3	20		
Lower Wenatchee	LW-1060	Water Quantity	Instream Flow	Irrigation Practice Improvements Water Leased or Purchased	Throughout Assessment Unit	Provide incentives for conserving water - municipal							4	3	20		
Lower Wenatchee	LW-1061	Water Quantity	Instream Flow	Irrigation Practice Improvements Water Leased or Purchased	Throughout Assessment Unit	Provide incentives for conserving water - irrigation districts							4	4	14		
Lower Wenatchee	LW-1070	Water Quantity	Instream Flow	Water Leased or Purchased	Throughout Assessment Unit	Develop administrative structure for a water bank							4	4	14		
Lower Wenatchee	LW-1080	Water Quantity	Instream Flow	Water Leased or Purchased	Throughout Assessment Unit	Investigate water right purchase or lease							4	4	17		
Lower Wenatchee	LW-1090	Water Quantity	Instream Flow	Assessment	Throughout Assessment Unit	Assess influence of groundwater withdrawals on surface water				studies			--	--	--		
Lower Wenatchee	LW-1100	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Sleepy Hollow to Monitor (CMZ 6, highway)	Assess feasibility of reconnection side channels under Highway 2			Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat				1	2	21	Funded for Alternatives Analysis for 2008	
Lower Wenatchee	LW-1110	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Above Sleepy Hollow (side channel spring river Left)	Assess feasibility/Design	Implement	Monitor	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	2	21		
Lower Wenatchee	LW-1120	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Near Monitor (CMZ?, Pioneer diversion)	Evaluated in 2007	Re-evaluate	Design and Implement	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	3	20		
Lower Wenatchee	LW-1130	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Cashmere (Barrow pits)		Evaluate	Design and Implement	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	3	20		
Lower Wenatchee	LW-1140	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Below Dryden Dam (CMZ?)	Implemented 2006	Monitor, evaluate and adaptively manage		Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles		Talk to Steve Hayes	1	3	20	Completed 2006/7 by CCPUD	
Lower Wenatchee	LW-1150	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Gagnon	Implemented 2007	Monitor, evaluate and adaptively manage		Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			--	--	--	Completed 2007	

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Lower Wenatchee	LW-1160	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat		Implement high priority CMZ projects		Evaluate and Prioritize	Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	miles			1	3	20		Based on recommendation from RTT, hold off on back-channel projects until monitoring and effectiveness data from Gagnon are evaluated.
Lower Wenatchee	LW-1161	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 11	Implement 2008							--	--	--	Funded for construction in 2008	BPA?
Lower Wenatchee	LW-1162	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 12/13	Implement 2008							--	--	--	Funded for construction in 2008	
Lower Wenatchee	LW-1163	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 2 (Goodfellow)	Design, seek funding and implement	Monitor, evaluate and adaptively manage						--	--	--	Seeking funding	Design being re-done based on RTT review
Lower Wenatchee	LW-1164	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 17 (confluence of Peshastin Crk)	Alternatives Analysis										Funded for Alternatives Analysis for 2008	Implementation will depend on outcome of alternatives analysis
Lower Wenatchee	LW-1165	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	CMZ 20 (confluence of Icicle Crk)	Alternatives Analysis										Funded for Alternatives Analysis for 2008	Implementation will depend on outcome of alternatives analysis
Lower Wenatchee	LW-1170	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit and associated with CMZ sites	Evaluate high risk areas and prioritize (see CMZ Study)							1	--	--		
Lower Wenatchee	LW-1163	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	CMZ 2 (Goodfellow)	Seek funding and implement										Design completed? Seeking funding	This project includes both protection and active restoration, so its listed twice

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Lower Wenatchee	LW-1180	Habitat Diversity and Quantity	Riparian Habitat	Planting Forestry Practices or Stand Management Weed Control Livestock Exclusion	Throughout Assessment Unit	Implement in conjunction with CMZ projects and others as appropriate			Improve habitat diversity and quantity by 2 to 3 miles of side channel habitat	acres/linear foot			3	1	24		
Lower Wenatchee	LW-1181	Habitat Diversity and Quantity	Riparian Habitat	Planting	Leavenworth Golf Course	Implemented 2007	Monitor, evaluate and adaptively manage				\$24,400 (Golf Course)		--	--	--	2,380 linear feet completed (Golf Course)	Specify type of labor, other things that affect total cost
Lower Wenatchee	LW-1182	Habitat Diversity and Quantity	Riparian Habitat	Planting	Irwin Riparian (across from Blackbird Is.)	Scheduled for 2008							--	--	--	Funded for implementation in 2008	
North Side Tributaries	NST-1190	Habitat Diversity and Quantity	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	Throughout Assessment Unit			Evaluate, design and implement	Monitor	miles	\$ 200,000		--	4	14		SB difficult to rank
North Side Tributaries	NST-1200	Habitat Diversity and Quantity	Fish Passage	Barriers Culvert Improvements or Upgrades Road Crossings (bridges) Diversion Dam or Push-Up Dam Removal	Throughout Assessment Unit	Update barrier inventory and assess potential projects	Implement	Monitor	Monitor	miles	\$ 550,000		--	--	--		
North Side Tributaries	NST-1201	Habitat Diversity and Quantity	Fish Passage	Culvert Improvement or Upgrade	Derby Creek											Four culverts replaced on NF lands on Derby Creek in 2006 (Fischer Fire Recovery).	This may need to go into "past" projects.
North Side Tributaries	NST-1210	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvements	Throughout Assessment Unit	Evaluate options such as use of out-of-basin water, pumping from lower Wenatchee reserve, PUD hookup, deep groundwater, storage, water right purchase					\$ 75,000		--	--	--		
Mission Creek	MC-1220	Water Quality	Water Quality Improvement	Assessment	Throughout Assessment Unit		Evaluate BOD and affect to DO	Implement corrective measures as identified through WWPU	Implement corrective measures as identified through WWPU	studies	\$ 75,000		--	--	--		
Mission Creek	MC-1230	Water Quality	Water Quality Improvement	Assessment	Throughout Assessment Unit		Monitor fish health / toxicology	Implement corrective measures as identified through WWPU	Implement corrective measures as identified through WWPU	studies	\$ 50,000		--	--	--		
Mission Creek	MC-1240	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Education program to determine BMPs for domestic and agri-business practices	Identify opportunities and implement as appropriate		All irrigation delivery and use systems at optimal efficiency		\$ 26,000		3	1	25		
Mission Creek	MC-1250	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Increase Irrigation efficiency					\$ 150,000		3	4	16		Some opportunities will be identified through storage analysis, LW-1260
Mission Creek	MC-1260	Water Quantity	Instream Flow	Water Leased or Purchased	Peshastin and Icicle Creeks	Evaluate storage from other watersheds	Determine feasibility	Secure funding and support	Implement		\$ 75,000		3	--	--	Assessment being done in 2008/09	A water storage needs and alternatives analysis is being done through the WQN/ISF Subcommittee
Mission Creek <i>repeat of MC-1240 removed</i>	MC-1270	Water Quantity	Instream Flow	Water Leased or Purchased	Throughout Assessment Unit	Evaluate effects and identify areas where feasibility exists	Implement				\$ 286,000		3	3	20		
Mission Creek	MC-1290	Habitat Diversity and Quantity	Riparian Habitat	Weed Control	Throughout Assessment Unit	Evaluate Japanese Knotweed removal and implement as appropriate	Continue control program	Continue control program	Continue control program	acres	\$ 10,000		4	3	20		

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Mission Creek	MC-1300	Habitat Diversity and Quantity	Riparian Habitat	Planting	Throughout Assessment Unit	Implement as opportunities arise	Implement as opportunities arise						4				
Mission Creek	MC-1301	Habitat Diversity and Quantity	Riparian Habitat	Planting	Implement IRIS program on Mainstem between RM 4-6	Evaluate feasibility of program					\$ 96,000		4	NR			Need more info on IRIS Program
Mission Creek	MC-1302	Habitat Diversity and Quantity	Riparian Habitat	Planting	Throughout Assessment Unit	Monitor					\$20,000 as of 2007		4			1,950 linear feet planted in 2007	
Mission Creek	MC-1310	Habitat Diversity and Quantity	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	NF Roads		Road Analysis	Roads Analysis and implementation (USFS)	Reduce road imposition on channel function to the extent practical	miles	\$ 100,000		4	3	20		
Mission Creek	MC-1320	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Between RM 4 and RM 6			Evaluate		miles	\$ 100,000		4	4	17		
Mission Creek	MC-1330	Habitat Diversity and Quantity	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	County / City and (2-3 miles Brender)	Assess and reduce road interferences with channel function			Reduce road imposition on channel function to the extent practical	miles	\$ 30,000		4	4	17		
Mission Creek	MC-1340	Habitat Diversity and Quantity	Instream	Channel Reconfiguration	Mission - Mouth to NF Boundary			Evaluate		structures	\$ 500,000		3	2	21	Cross Vanes completed 2007	Get info from CCD
Mission Creek	MC-1350	Habitat Diversity and Quantity	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration Weirs (log or rock) Diversion Dam or Push-up Dam Removal	Throughout Assessment Unit	Check with barrier inventory to identify locations E. Fork, Little Camas, lower mainstem?)	Focus on Little Camas (NF) road, 1 culvert needs work		Restore passage to all available spawning and juvenile rearing areas	miles	\$ 560,000		4	1	25		Consider number of projects necessary to open passage and length of passage open. Refer to barrier inventory. 2 culverts on Lower Sand and one on Little Camas replaced in 2002 by USFS
Peshastin Creek	PC-1360	Water Quantity	Instream Flow	Irrigation Practice Improvements	Tandy Ditch and PID (efficiency) incorporate existing irrigation district facility improvement plans	Assess	Implement as appropriate	Complete	All irrigation delivery and use systems at optimal efficiency.		\$ 550,000		1	2	21		Flow improvement targets should be discussed in coordination with potential instream modifications and WQN/ISF Subcomm.
Peshastin Creek	PC-1361	Water Quantity	Instream Flow	Irrigation Practice Improvements	Peshastin Irrigation District, lower part of canal	Convert 9,900 feet of open canal to pipe							1	2	21	Funding secured	
Peshastin Creek	PC-1370	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Assess efficiencies and identify funding sources.	Implement as appropriate	Implement as appropriate	Complete		\$ 250,000		1	4	15		Need details on specific projects. Overall goal to increase flows is the same, but various approaches may rank differently. Work with WQN/IF Subcomm.
Peshastin Creek	PC-1380	Water Quantity	Instream Flow	Water Lease or Purchased Change Point of Diversion	Throughout Assessment Unit	Evaluate options such as use of storage, changed point of diversion, water right purchase or lease.	Implement education program to conserve water use through domestic and agri-business practices				\$ 102,000		1	NR	--		
Peshastin Creek	PC-1390	Habitat Diversity and Quantity	Instream	Channel Reconfiguration	Mouth to Ingalls (20 - 30 structures)	USBR conducting fluvial assessment to identify opportunities. Evaluate and prioritize results	Implement 2-4 per year as appropriate	Implement 2-4 per year as appropriate	Complete 20 - 30 structures	structures	\$ 450,000		1	3	20	USBR assessment 2008/09	improving overall function is hard with the highway. This type of project would require more maintenance and permitting issues. Same project as PC-1450. Coordinate with instream flow improvements
	PC-1400																
Peshastin Creek	PC-1410	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Lower Peshastin (mouth to RM 1)	Alternatives Analysis	Implement action as appropriate	Implement action as appropriate	Improve side-channel habitat and provide high flow refugia	miles	\$ 500,000		4	4	15		Complex project, so feasibility ranked low. Alternatives analysis funded for 2008 CMZ 17, same as LW-1164

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Peshastin Creek	PC-1411	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Ingalls Creek to RM 1	USBR conducting fluvial assessment to identify opportunities. Evaluate and prioritize results							1	3	19	USBR assessment 2008/09	Coordinate with instream flow improvements
Peshastin Creek	PC-1420	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Downstream of Ingalls Creek	Evaluate potential site selection	Acquire easements and connect floodplain as opportunities arise.	Acquire easements and connect floodplain as opportunities arise.		miles	\$ 800,000		1	--	--		
Peshastin Creek	PC-1430	Habitat Diversity and Quantity	Riparian Habitat	Forestry Practices or Stand Management Planting Recreation Management	Throughout Assessment Unit	Assessment for shade and channel structure, plantings as opportunities arise	Plantings in conjunction with side channel connection, pool formation and flow improvements	Identify and reduce practices having negative effects as appropriate.	USFS incorporates appropriate conservation strategies in review/acceptance of annual operating plans for mines and other practices on NF land..	acres	\$ 50,000		4	--	--		
Peshastin Creek	PC-1440	Habitat Diversity and Quantity	Sediment Reduction	Road Relocation Road Obliteration Road Stream Crossing Improvements Sediment Control	Above Ingalls Creek and Upper Tributaries	Assessment for road channel structure (focus on NF - tributaries above Ingalls)	Implement action as appropriate	Implement action as appropriate	Minimize road affects to stream channel and riparian function as practical.	miles	\$ 150,000		--	--	--		
Peshastin Creek	PC-1450	Obstructions	Fish Passage	Channel Reconfiguration	Structures at and below PID (10 structures)	USBR conducting fluvial assessment to identify opportunities. Evaluate and prioritize results	Implement as appropriate from assessment	Complete		structures	\$ 150,000		1	3	20	USBR assessment 2008/09	Same as PC-1390
Peshastin Creek	PC-1460	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Mill Creek, Ruby and Scotty Creek	Check with barrier inventory. Assess and engineer	Implement	Complete		miles	\$ 240,000		4	1	25		more info is needed on Mill Crk to determine extent of potential SH rearing and flow regime
Chumstick Creek	CC-1470	Water Quality	Water Quality Improvement	Refuse Removal	Throughout Assessment Unit	Remove metallic and other debris from stream channel.	Implement as opportunities become available.	Implement as opportunities become available.	Implement as opportunities become available.		\$ 25,000		--	--	--		Not a limiting factor so not scored. Should be a good thing to do watershed-wide.
Chumstick Creek	CC-1480	Water Quantity	Instream Flow	Assessment	Throughout Assessment Unit	Conduct a surface/ground water interaction study	Develop and implement strategies to meet instream and out-of-stream needs	Evaluate and implement as appropriate	Evaluate and implement as appropriate	studies	\$ 75,000		--	--	--	Funded Jan. 2008 - June 2009	This study is being done through the WQN/ISF Subcommittee

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Chumstick Creek	CC-1490	Water Quantity	Instream Flow	Irrigation Practice Improvements	Throughout Assessment Unit	Education program to conserve water use through domestic and agri-business practices					\$ 26,000		1	1	25		
Chumstick Creek	CC-1500	Riparian	Riparian Habitat	Fencing Lifestock Exclusion Conservation Grazing Management	Throughout Assessment Unit	Evaluate and implement as appropriate			Restore approximately 4 miles of riparian from the confluence with the Wenatchee up stream to Little Chumstick. Additionally restore approximately 1 mile of native vegetation in Eagle Creek	miles	\$ 100,000		2	2	21		
Chumstick Creek	CC-1510	Riparian	Riparian Habitat	Weed Control	Throughout Assessment Unit	Evaluate and implement as appropriate			Restore approximately 4 miles of riparian from the confluence with the Wenatchee up stream to Little Chumstick. Additionally restore approximately 1 mile of native vegetation in Eagle Creek	miles	\$ 25,000		2	3	19		
Chumstick Creek	CC-1520	Riparian	Riparian Habitat	Planting	Selected areas: Eagle Cr - to Little Chumstick	Evaluate and implement as appropriate	Evaluate and implement as appropriate		Restore approximately 4 miles of riparian from the confluence with the Wenatchee up stream to Little Chumstick. Additionally restore approximately 1 mile of native vegetation in Eagle Creek	acres	\$ 5,000		2	2	22		Use FLIR and aerial photo analysis to select locations (available from CCNRD), coordinate with WQL Subcomm.
Chumstick Creek	CC-1521	Riparian	Riparian Habitat	Planting	17 landowners within selected areas	Complete and monitor	Monitor					\$73,250 as of 2007	2	2	22	7,140 linear feet planted in 2007	
Chumstick Creek	CC-1530	Sediment	Sediment Reduction	Road Drainage System Improvements Erosion Control Structures Road Obliteration	Tributaries and upper watershed			Evaluate and implement		miles	\$ 200,000		2	4	17		SB score assumed this would entail obliterating USFS roads. Feasibility is affected by internal FS issues, funding limitations. Chumstick is not a priority.
Chumstick Creek	CC-1540	Habitat Diversity and Quantity	Instream	Off-Channel Habitat	Watershed wide	Reconnect side-channel			Increase of channel and high flow refugia habitat	miles	\$ 80,000		3	4	17		

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Chumstick Creek	CC-1550	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Mainstem Chumstick			funding secured	Top Priority within the Chumstick Watershed	structures	\$ 180,000		2	1	24		Refer to barrier inventory and USFWS for locations
Chumstick Creek	CC-1551	Obstructions	Fish Passage	Culver Improvements or Upgrades	Mainstem Chumstick	13 scheduled for 2009										Funding secured for 2009 construction	
Chumstick Creek	CC-1560	Obstructions	Fish Passage	Culvert Improvements or Upgrades	North Road, Lower Chumstick	scheduled for 2010				structures	\$1,200,000		1	1	29	funding being secured by CC Public Works	Top priority in Chumstick Creek
Icicle Creek	IC-1570	All	Assessment	Icicle Watershed Evaluation	Mouth to Boulder Field	Evaluation of sediment budget, appropriate channel migration and sequence of actions	Implement	Implement		studies	\$ 500,000		--	--	--		Tentatively scheduled by USBR after Nason and Peshastin are completed
Icicle Creek	IC-1580	Water Quality	Water Quality Improvement	TBD	Throughout Assessment Unit	Education program to determine BMPs for domestic and agri-business practices					\$ 26,000		--	1	25		
Icicle Creek	IC-1590	Water Quality	Water Quality Improvement	TBD	Throughout Assessment Unit	Implement recommendations from TMDL							--	2	21		Original action was to reduce nutrient loads; however it is unclear if that is a limiting factor
Icicle Creek	IC-1600	Water Quantity	Instream Flow	Water Lease or Purchased Irrigation Practice Improvement	Throughout Assessment Unit	Work with irrigation districts to increase irrigation delivery and use efficiency	Implement as appropriate				\$ 600,000		2	4	16		
Icicle Creek	IC-1610	Water Quantity	Instream Flow	Water Lease or Purchased Irrigation Practice Improvement	Cascade and hatchery pipe (USFWS)	Improve intake, providing pump back (20 cfs) and improving the delivery pipe	Implement as appropriate				\$6,100,000		2	2	21		
Icicle Creek	IC-1620	Habitat Diversity	Riparian Habitat	Planting Weed Control	Below hatchery	500-1000 feet per year	500-1000 feet per year	500-1000 feet per year		acres	\$ 26,000		4	2	23		Highly erosive areas that contribute large amounts of sediment are a higher priority, see IC-1640.
Icicle Creek	IC-1630	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Below hatchery	Evaluate opportunities and acquire as available	Evaluate opportunities and acquire as available				\$1,200,000		3	1	24		
Icicle Creek	IC-1640	Sediment	Sediment Reduction	Riparian Planting Sediment Control	Below hatchery	Evaluate overall need	Implement as opportunities arise	Implement as opportunities arise	Restore all stream banks where feasible	miles	\$ 300,000		2	3	18		The priority (over IC-1620) are erosive areas contributing large amounts of sediment
Icicle Creek	IC-1641	Sediment	Sediment Reduction	Riparian Planting Sediment Control	Fromm	Implemented 2007, monitor	Monitor, evaluate and adaptively manage					\$14,450				740 linear feet planted in 2007	
Icicle Creek	IC-1650	Sediment	Sediment Reduction	Road Obliteration	Trout Creek (USFS)	Evaluate feasibility	Obliterate/reconstruct approx 4 miles			miles	\$ 200,000		2	2	23		Road is failing, some preliminary assessment work is done.

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Icicle Creek	IC-1660	Habitat Diversity and Habitat Quantity	Instream	Off-Channel Habitat	Reconnect side channel above LNFH between headgate and dam 5	Complete (USFWS)	Monitor, evaluate and adaptively manage			miles	\$5,200,000		2	3	18	Structures between headgate and dam 5 removed in 2003	Is this action completed or is there more to do?
Icicle Creek	IC-1665	Habitat Diversity and Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	From mouth to Hatchery		Implement as appropriate						3				
Icicle Creek	IC-1670	Obstructions	Fish Passage	Fishways	Dam 5 and Headgate	Restore passage at dam 5 and headgate	Complete				\$ 300,000		2	1	24	permitting is underway by USFWS?	
Icicle Creek	IC-1680	Obstructions	Fish Passage	Fishways	Assess all irrigation structures in conjunction with appropriate irrigation districts	Evaluate, design and implement where appropriate	Evaluate, design and implement where appropriate	Complete			\$ 300,000		2	--	--		Not sure what the actual action/location is.
Icicle Creek	IC-1690	Obstructions	Fish Screening	Fish Screen Replacement	Replace Icicle/ Leavenworth and LNFH-Cascade screens	Complete LNFH (USFWS)	Complete Ice-Peshastin				\$ 300,000		3	2	22		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1700	Habitat Quantity (mainstem Wenatchee)	Riparian Habitat	Planting	Associated with some residential development (above Tumwater Canyon)	100 - 500 feet per year	100 - 500 feet per year	100 - 500 feet per year	Riparian vegetation intact and elevated stream bank erosion checked.	acres	\$ 15,000		--	2	23		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1710	Habitat Quantity (mainstem Wenatchee)	Instream	Off-Channel Habitat	NF Road above Tumwater Canyon.	USBR fluvial assessment. Evaluate the need and feasibility of lower River Road modification/relocation	Evaluate the need and feasibility of lower River Road modification/relocation	Complete	River Road imposition on river and floodplain function minimized.	miles	\$ 150,000		3	--	--		SB scoring deferred based on USFS planning efforts
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1720	Habitat Quantity (mainstem Wenatchee)	Instream	Log Structure or Log Jam	upper Mainstem	USBR fluvial assessment to identify opportunities. Evaluate benefit and feasibility and prioritize results	Implement 2-3 structures and monitor fish use for pilot.	Implement 2-3 additional structures per year.	Approximately 15 - 20 additional LWD complexities.	structures	\$ 60,000		1	3	19		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1725	Habitat Quantity (mainstem Wenatchee)	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	mainstem Middle and Upper Wenatchee	Implement as appropriate							1				

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Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1730	Habitat Diversity (Chiwaukum)	Riparian Habitat	Recreation Management Weed Control Planting Fencing	NF Campground		Evaluate campground relationship to river function	Implement Recommendations		studies	\$ 150,000		3	--	--		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1740	Habitat Diversity (Chiwaukum)	Instream	Channel Reconfiguration Plant Removal or Control	Lower sections (of chiwaukum or Skinney?...sounds like Skinney habitat)	Evaluate and obtain permission to remove old earth dikes, canary reed grass, reestablish channel's and native vegetation.	Design, acquire permits and approval	Implement and monitor		miles	\$ 895,000		--	--	--		Several project types lumped. Need to rank (SB) each type individually. Not a limiting factor.
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1741	Habitat Diversity (Chiwaukum)	Instream	Channel Reconfiguration	Skinney Creek (RM 0.0-0.5)	ID funding source to partner w/ WSDOT	Implement										Opportunity to remove section of existing HWY 2 and rehabilitate Skinney Creek to historic channel and pattern. Associated with WSDOT preferred alternative for US2 Chiw. Crk bridge replacement
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1750	Obstructions (Chiwaukum)	Fish Passage	Culvert Improvements or Upgrades	Skinny Creek	Implement	monitor			structures	\$ 160,000		--	1	25	Upper Skinny Completed 2006	Lower Skinny tied to WSDOT bridge replacement. See UW-ChiwC-1741
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1760	Obstructions (Beaver Creek)	Fish Passage	Culvert Improvements or Upgrades	6 culverts starting at RM 0.3 (others within potential fish distribution?)	Determine rank among Wenatchee priorities. Implement 1-2 per year in years 2-3	Continue to implement at 1-2 per year until finished	Finalize implementation and maintain all improvements	Monitor and maintain	structures	\$ 300,000		4	1	25		
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1761	Obstructions (Beaver Creek)	Fish Passage	Culvert Improvements or Upgrades	Beaver Complex #1, #2, #3	Implement	monitor						4	1	25	Beaver 1&3 completed 2007. #2 funded and scheduled for 2008	
Upper Wenatchee (Lake to Tumwater) and Chiwaukum Creek	UW and ChiwC-1762	Obstructions (Beaver Creek)	Fish Passage	Culvert Improvements or Upgrades	Chiwawa Loop Rd.	Implement	monitor						4	1	25	Funded and scheduled for 2008	CC Public Works
Chiwawa River	CR-1770	Habitat Quantity	Instream	Channel Connectivity Off-Channel Habitat	Chikamin Flat	Evaluate	Implement			miles	\$ 800,000		4	3	19	Project being developed by USFS w/landowner	Cooperative landowner already working with USFS. Not much maintenance needed.

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Chiwawa River	CR-1780	Habitat Quantity	Sediment Reduction	Road Drainage System Improvements Erosion Control Structures	Lower Watershed and Tributaries	Evaluate	Implement	Implement			\$ 200,000		--	--	--	Assessment completed above Chikamin Creek.	
Chiwawa River	CR-1790	Habitat Quantity	Riparian Habitat	Recreation Management	NF campsites - middle/upper watershed	Implement, monitor, adaptively manage	Monitor, evaluate, adaptive mgt	On-going	Riparian vegetation intact, public access maintained, salmon and bull trout harassment reduced during spawning.	acres	\$ 25,000	\$115,000	4	--	--	Completed by USFS 2006-07	See comment attached to cell
Chiwawa River	CR-1800	Habitat Quantity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Lower 4 miles of Chiwawa	Implement as appropriate	Implement as appropriate	Implement as appropriate			\$2,300,000		1	3	19		SB score differs by Assessment Unit based on landowner willingness/feasibility. Each community is different
Chiwawa River	CR-1810	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Clear, Minnow, Alder, and Deep creeks	Evaluate future, complete those in progress	Implement future	Complete		structures	\$ 480,000		3	1	25		Discuss brook trout with Minnow and Deep Creeks
Chiwawa River	CR-1811	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Clear Creek #1, #2 & #3	Implement	monitor									Completed 2007	
Chiwawa River	CR-1812	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Alder Creek #1 & #2	Implement	monitor									Completed 2007	
Chiwawa River	CR-1820	Species interaction	Reduce or Eliminate Non-native Species	Reduce or Eliminate Brook Trout	Brook Trout in Minnow and Schaefer Lakes	Evaluate approach	Implement	On-going control		studies	\$ 50,000		3	4	5		Very difficult to implement. Gaining community support would take time to educate the public.
Chiwawa River	CR-1830	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		Needs further evaluation and discussion. It's difficult to retain carcasses. Will need to be able to "win" community support through education. Needs long-term monitoring. A potential permitting issue with increased P levels and pH/DO TMDL downstream.
Nason Creek	NC-1840	All	Assessment	Nason Watershed Evaluation	Primarily below White Pine	Evaluation of sediment budget, appropriate channel migration and sequence of actions	Implement	Implement		studies	\$ 175,000		--	--	--	Completed by USBR 2007	
Nason Creek	NC-1850	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Mouth to White Pine Creek	Ongoing, acquire as available or based on USBR Assessment					\$2,300,000		1	2	22		See notes under CR-1800
Nason Creek	NC-1860	Habitat Diversity	Riparian Habitat	Forestry Practices or Stand Management Planting	Mouth to Whitepine Creek	Evaluate specific need and develop schedule based on USBR Assessment				acres	\$ 86,000		2	2	23		Projects need to be developed in the right place. There are some locations that may not be appropriate.

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Nason Creek	NC-1870	Habitat Diversity	Instream	Channel Reconfiguration	Mouth to Whitepine Creek	Evaluate specific need and develop schedule based on USBR Assessment				structures	\$ 150,000		1	2	21		Under old action, "increase LWD": potential permitting issues, need to communicate safety to public. These would be active projects with shorter-term effects, so we need to understand expectations.
Nason Creek	NC-1880	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Mouth to White Pine Creek	Implement and evaluate natural and/or historic lower Nason side/off channel habitats	implement one side/off channel project per year		Increase side-channel habitat by 2 miles and 8 miles of in-stream habitat	miles	\$ 700,000		1	2	21		
Nason Creek	NC-1881	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Mouth to White Pine Creek	Develop process for implementing projects with BNSF	Apply process to specific projects									Funded, project underway	
Nason Creek	NC-1881	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Nason Oxbow CMZ N2/3 (check #)	Completed 2007	Monitor, evaluate, adaptive mgt	Monitor, evaluate, adaptive mgt					--	--	--	Completed 2007	
Nason Creek	NC-??	Channel Stability	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Nason CMZ 4	Analysis scheduled for 2008							--	--	--	Funded for analysis	
Nason Creek	NC-1890	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Coulter/Roaring (Railroad Crossing)	Evaluate feasibility, look at USBR Assessment and Barrier Study	Implement if appropriate		Improve passage throughout the watershed	miles	\$ 50,000		2	1	25		
Nason Creek	NC-1900	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Mill Creek	Evaluate feasibility, look at Barrier Study			Improve passage throughout the watershed	miles	\$ 50,000		2	1	25		Get specific locations
Nason Creek	NC-1901	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Mill Creek - Westbound HW2	Monitor										Completed in 2006	Completed by WSDOT
Nason Creek	NC-1910	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal	Gill and Roaring Creeks (lower reaches)	Evaluate feasibility, look at USBR Assessment and Barrier Study			Improve passage throughout the watershed	miles	\$ 100,000		2	1	25		Check status of Highway culverts
Nason Creek	NC-1920	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		See notes under CR-1830
Little Wenatchee River	LitWR-1930	Sediment	Sediment Reduction	Road Relocation Road Obliteration Road Drainage System Improvements	Throughout Assessment Unit	Fund NEPA to implement USFS Roads Analysis recommendations	Implement	continue to implement		miles	\$ 150,000		2	3	18		Road closure recommendations are contingent on USFS completing silvicultural prescriptions to accelerate late successional characteristics in harvest plantations.
Little Wenatchee River	LitWR-1940	Sediment	Riparian Habitat	Planting Forestry Practices or Stand Management	Throughout Assessment Unit	Evaluate need	Implement as opportunities arise			acres	\$ 80,000		3	1	25		Could be tied to Tier 3 Bio Strat rec.
Little Wenatchee River	LitWR-1950	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		See notes under CR-1830
Little Wenatchee River	LitWR-1960	Habitat Diversity	Riparian Habitat	Recreation Management Planting	Dispersed recreation sites below Little Wenatchee Falls	Assess, design, permit, implement	continue to implement, monitor, evaluate, adaptive mgt	Monitor and maintain		acres	\$ 25,000		2	1	24		Access to two of three known trouble sites barricaded with boulders. Need to continue monitoring, access becoming an issue with kayaking groups.
Little Wenatchee River	LitWR-1970	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	lower assessment unit	Acquire conservation easements and pursue other innovative measures as opportunities arise	Acquire easements where available.						1	--	--		See notes under CR-1800

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White River	WhR-1980	Habitat Diversity	Land Protection, Acquisition or Lease	Streambank Protection Upland Protection Wetland Protection	Lower mainstem	Acquire conservation easements and pursue other innovative measures	Acquire easements where available.	Acquire easements where available.	Protect and maintain existing excellent spawning and rearing habitat.		\$2,300,000		1	1	24	Check with CDLT on status	See notes under CR-1800.
White River	WhR-1990	Habitat Diversity	Riparian Habitat	Planting	Mouth to Sears Ck	valuate specific need and develop schedule. Implement approximately 500 feet per year as appropriate	Plantings 500 feet per year.	Plantings 500 feet per year.		acres	\$ 20,000		1	2	23		focus plantings in flood plain areas, residential development, and impacted side-channel habtiat
White River	WhR-2000	Depleted Nutrients	Nutrient Enrichment	Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Implement	Monitor, evaluate, adaptively manage			\$ 12,000		2	3	18		See notes under CR-1830
White River	WhR-2010	Habitat Diversity and Quantity	Instream	Streambank Stabilization Channel Connectivity Off-Channel Habitat	Below Sears Creek								1	--	--		Check with CDLT and WDFW
White River	WhR-2011	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	White River Oxbow above Sears Crk. NF land	Monitor, Evaluate and adaptively manage	Monitor, evaluate, adaptively manage									Completed 2005	1.5 mile road obliteration (0.75 miles of diked road in floodplain), removed 3 undersized culverts in floodplain and re-connected 1/2 mile of oxbow
White River	WhR-2112	Habitat Diversity and Quantity	Instream	Channel Connectivity Off-Channel Habitat	Upper Canyon Roads above Sears Creek	Monitor, Evaluate and adaptively manage	Monitor, evaluate, adaptively manage									Completed 2005	3.5 miles of road obliteration and 27 culverts removed to restore hydrologic function and wetland connectivity
White River	WhR-2113	Habitat Diversity and Quantity	Instream	Streambank Stabilization Channel Connectivity Off-Channel Habitat	White River bank stabilization on NF land above Sears Creek	Monitor, Evaluate and adaptively manage	Monitor, evaluate, adaptively manage									Completed 2005	Installed 120 pieces of LWD over 110 ft of stream bank to maintain pools and provide high flow refuge
White River	WhR-2020	Habitat Diversity and Quantity	Off Channel Wetlands	Wetland Improvement and Enhancement Wetland Restoration	Below Sears Creek								1	--	--		Check with CDLT and WDFW