

Methow Watershed 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
Lower Methow (Pateros to Carlton)	MR 1000	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Throughout Assessment Unit	Restore flows where feasible	Explore opportunities to put water into Trust Water program					\$ 286,000			
Lower Methow	MR 1010	Water Quality	Instream	Assessment	Throughout Assessment Unit	Assess potential temperature refugia through FLIR and profile						\$ 100,000			BOR conducted Big Valley reach assessment in 2008
Lower Methow	MR 1020	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	implement Conservancy easements	implement Conservancy easements	implement Conservancy easements			\$ 1,000,000			None completed to date
Lower Methow	MR 1030	Habitat Diversity and Quantity	Fish Screening	Fish Screen Installation Fish Screen Removal Fish Screen Replacement	Throughout Assessment Unit	Inventory pump intake needs	Replace and remove as necessary	Replace and remove as necessary	Replace and remove as necessary						
Lower Methow	MR 1040	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Lower Methow	MR 1050	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout Reduce or Eliminate Non-native Predators	Throughout Assessment Unit	Monitor, evaluate, adaptively manage	Monitor, evaluate, adaptively manage	Monitor, evaluate, adaptively manage	Monitor, evaluate, adaptively manage			\$ 50,000			
Lower Methow	MR 1060	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Downstream of Libby Creek	Restore flows where feasible	Explore opportunities to put water into Trust Water program						\$227,000		Change from surface to ground and Trust Water savings (Clees property), completed in 2008 by MSRF (DOE and other funding)
Lower Methow	MR 1070	Water Quantity	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Downstream of Carlton	Implement opportunities to reestablish natural off channel storage capacity areas by reconnecting side channels, wetlands	Implement					\$ 895,000			
Middle Methow (Carlton to Winthrop)	MR 1080	Water Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit	Implement projects to maintain natural water storage function identified through BOR assessment	Implement projects to maintain natural water storage function identified through BOR assessment	Implement projects to maintain natural water storage function identified through BOR assessment				\$ 6,600,000			
Middle Methow	MR 1090	Water Quality	Instream	Assessment	Throughout Assessment Unit	Assess potential temperature refugia through FLIR and profile						\$ 100,000			BOR conducted Big Valley reach assessment in 2008
Middle Methow	MR 1100	Water Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit	Identify projects to increase water storage identified by Methow Watershed Council (MWC)	Implement projects to increase water storage identified by MWC	Implement projects to increase water storage identified by Methow Watershed Council MWC							
Middle Methow	MR 1110	Habitat Diversity	Off-Channel Wetlands	Wetland Improvement or Enhancement	Throughout Assessment Unit	Develop comprehensive floodplain management plan						\$ 650,000			
Middle Methow	MR 1120	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvements	Throughout Assessment Unit	Identify opportunities to establish Trust Water program participation	Identify opportunities to establish Trust Water program participation	Identify opportunities to establish Trust Water program participation	Identify opportunities to establish Trust Water program participation						

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Middle Methow	MR 1130	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate			\$ 5,400,000			To date, a total of 410 acres have been placed in conservation easement by the Methow Conservancy, of which 104 are in riparian areas.
Middle Methow	MR 1140	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout Reduce or Eliminate Non-native Predators	Throughout Assessment Unit	monitor status...i.e.: bass near Beaver cr.						\$ 75,000			
Middle Methow	MR 1150	Habitat Diversity	Instream	Channel Connectivity Off-Channel Habitat Channel Reconfiguration	Upstream of Carlton near historic town of Silver and in reach between Twisp and Winthrop	Assess options for dike removal and side channel reconnection where appropriate	Implement as appropriate	Implement as appropriate				\$ 750,000			Middle Methow Reach Assessment started by BOR in 2008
Middle Methow	MR 1160	Habitat Diversity	Instream	Streambank Stabilization Channel Reconfiguration	Town of Winthrop	Asses opportunities for channel reconfiguration and bank stabilization	Implement as appropriate	Implement as appropriate							USFWS and FEMA funded MSRF to evaluate replacing a failing bulkhead with a fish-friendly design in 2008
Middle Methow	MR 1170	Obstructions	Fish Passage	Diversion Dam / Push-up Dam Removal	Winthrop to Twisp reach	Excessive artificial channel stabilization and irrigation diversions at MVID east and Barclay						\$ 750,000			MVID East removal funded and removed in 2007 by MSRF
Middle Methow	MR 1180	Obstructions	Fish Screening	Fish Screen Replacement	MVID East	Replace diversion screen							\$ 180,000		Screen replaced by BPA in 2003
Middle Methow	MR 1190	Habitat Diversity and Quantity	Riparian Habitat	Planting Livestock Exclusion Weed Control	Winthrop to Twisp reach	Revegetate riparian areas along unused agricultural areas						\$ 50,000			
Middle Methow	MR 1200	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Creation Wetland Improvement or Enhancement Wetland Restoration	Mainstem	Assess and inventory areas cut off from the mainstem (acclimation, off-channel habitat, etc)	Assess and inventory areas cut off from the mainstem (acclimation, off-channel habitat, etc)	Implement actions as appropriate							
Middle Methow	MR 1210	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Upper Methow (Winthrop to Lost River)	MR 1220	Water Quality	Instream	Assessment Channel Reconfiguration	Throughout Assessment Unit	Assess potential temperature refugia through FLIR and profile						\$ 100,000			BOR conducted Big Valley reach assessment in 2008
Upper Methow	MR 1230	Water Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit	Identify projects to increase water storage identified by Methow Watershed Council (MWC)	Implement projects to increase water storage identified by MWC	Implement projects to increase water storage identified by Methow Watershed Council MWC							
Upper Methow	MR 1240	Habitat Diversity	Off-Channel Wetlands	Wetland Improvement or Enhancement	Throughout Assessment Unit	Develop comprehensive floodplain management plan						\$ 650,000			
Upper Methow	MR 1250	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate			\$ 7,200,000			To date, a total of 731 acres have been placed in conservation easement by the Methow Conservancy, of which 603 are in riparian areas.
Upper Methow	MR 1260	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration	Rock View (headgate on USFS)	Assess and complete NEPA	Implement as appropriate					\$ 400,000			

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Upper Methow	MR 1270	Habitat Diversity and Quantity	Instream Flow	Irrigation Practice Improvement	Rock View (headgate on USFS) and McKinney Mountain	Convert from surface diversion to groundwater	Implement as appropriate								WDFW closed surface diversion in 2000; converted to groundwater in 2006 at both Rock View and McKinney Mountain
Upper Methow	MR 1280	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Creation Wetland Improvement or Enhancement Wetland Restoration	Fender Mill	Assess and inventory mill ponds (and others) relationship to mainstem (acclimation, off-channel habitat, etc)	Monitor and adaptively manage as appropriate					\$ 75,000			Funded by BPA and implemented in 2008 by MSRF
Upper Methow	MR 1290	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Creation Wetland Improvement or Enhancement Wetland Restoration	Big Valley	Assess and inventory connection to mainstem (acclimation, off-channel habitat, etc) and fish passage issues	Implement actions as appropriate	Implement actions as appropriate	Implement actions as appropriate						Fish passage funded and implemented in 2007-2008 by MSRF
Upper Methow	MR 1300	Habitat Diversity and Quantity	Off-Channel Wetlands	Beaver Introduction	Throughout Assessment Unit	Reintroduce beavers in appropriate areas	Reintroduce beavers in appropriate areas	Reintroduce beavers in appropriate areas	Reintroduce beavers in appropriate areas						
Upper Methow	MR 1310	Habitat Diversity and Quantity	Instream	Off-Channel Habitat Channel Connectivity	Cedarosa	Assess options for side channel reconnection where appropriate	Implement actions as appropriate								
Upper Methow	MR 1320	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit	Evaluate feasibility (coordinate with Conservancy - on-going channel studies) for dike removal / floodplain reconnection						\$ 175,000			
Upper Methow	MR 1330	Obstructions	Fish Passage	Barriers Channel Reconfiguration	Foghorn Hatchery Diversion		Evaluate plans to rebuild dam as identified in FCRPS	Implement as appropriate				\$ 50,000			
Upper Methow	MR 1340	Habitat Diversity and Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Foghorn Hatchery Diversion		Assess opportunities for irrigation practice improvements	Implement as appropriate							
Upper Methow	MR 1350	Sediment	Sediment Reduction	Road (Bridge) Reconstruction Channel Connectivity	Weeman Bridge (Hwy 20)	Evaluate feasibility	Implement					\$ 1,000,000			
Upper Methow	MR 1360	Sediment	Sediment Reduction	Road (Bridge) Reconstruction Channel Connectivity	Wolf Creek Road	Evaluate feasibility to remove riprap and redesign	Implement								
Upper Methow	MR 1370	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Within current and historic range, consistent within individual stream capacity.	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Early Winters / Lost River	MR 1380	Water Quantity	Instream Flow	Change Point of Diversion Irrigation Practice Improvement	Early Winters Ditch		Assess and inventory need and opportunities to address headgate stranding and fish spawning habitat areas associated with intake	Implement as appropriate	Implement as appropriate			\$ 400,000			
Early Winters / Lost River	MR 1390	Water Quantity	Instream Flow	Irrigation Practice Improvement	Early Winters Ditch	Optimize water use and efficiency. Move to ground water conversion (wells) (NRCS conversion); Evaluate need and opportunity	Implement as appropriate					\$ 175,000			Seasonal point of diversion changed on Early Winters Creek in 2000 (at 35 cfs)

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Early Winters / Lost River	MR 1400	Obstructions	Fish Screening	Fish Screen Replacement	Early Winters Ditch	Replace fish screen on diversion									Replaced by WDFW in 2001
Early Winters / Lost River	MR 1410	Habitat Diversity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate						
Early Winters / Lost River	MR 1420	Sediment	Sediment Reduction	Sediment Control	Early Winters (lower) (USFS) Early Winters East & West campsites)	Assess and NEPA	Implement as appropriate					\$ 550,000			
Early Winters / Lost River	MR 1430	Habitat Diversity	Instream	Streambank Stabilization	Early Winters Campground (lower) (USFS) Early Winters East & West campsites)	Assess and NEPA	Implement as appropriate								
Early Winters / Lost River	MR 1440	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Pine Creek (WSDOT)		Replace existing undersized culvert to allow for fish passage								
Early Winters / Lost River	MR 1450	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration	Early Winters (HWY 20) and Pine Cr.		Implement as appropriate					\$ 3,000,000			
Early Winters / Lost River	MR 1460	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration	Early Winters Trail Bridge (MVSTA)		Renovate to raise and make wider					\$ 50,000			
Early Winters / Lost River	MR 1470	Sediment	Sediment Reduction	Road Reconstruction Erosion Control Structures Sediment Control	Sandy Butte Road		Assess and Design	Implement				\$ 50,000			
Early Winters / Lost River	MR 1480	Sediment	Sediment Reduction	Road Reconstruction Road Relocation	Highway 20	Evaluate Need						\$ 840,000			
Early Winters / Lost River	MR 1490	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Improvement or Enhancement Wetland Restoration Wetland Vegetation Planting	Robinson Creek; Lost River to Trout Creek	Implement Respect the River Program						\$ 75,000			
Early Winters / Lost River	MR 1500	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Lost River Airport	Establish flood management plan	Establish flood management plan	Establish flood management plan	Establish flood management plan						
Early Winters / Lost River	MR 1510	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit							\$ 800,000			
Early Winters / Lost River	MR 1520	Habitat Diversity and Quantity	Riparian Habitat	Recreation Management	Cougar Creek / Hidden Lake	Remove derelict fishing gear in lake									
Early Winters / Lost River	MR 1530	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Throughout Assessment Unit	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs					\$ 175,000			
Black Canyon	MR 1540	Sediment	Sediment Reduction	Channel Connectivity Riparian Habitat Planting Road Drainage System Improvements Road Obliteration Erosion Control Structures Sediment Control	Black Canyon watershed	assess sources and implement corrective action if warranted	Implement as appropriate					\$ 100,000			
Black Canyon	MR 1550	Sediment	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Sediment Control	USFS Black Canyon	assess sources and implement corrective action if warranted	Implement as appropriate					\$ 75,000			
Black Canyon	MR 1560	Obstructions	Fish Screening	Fish Screen Installation Fish Screen Removal Fish Screen Replacement	Black Canyon watershed	Remove barrier and replace screens						\$ 50,000			BOR, WDFW and irrigators replaced screen and barrier, completed in 2004
Black Canyon	MR 1570	Obstructions	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	RM 1 on Black Canyon	Assess and improve replaced culvert	Implement as appropriate								
Black Canyon	MR 1580	Obstructions	Fish Passage	Culvert Improvements or Upgrades	RM 1 on Black Canyon	Replace culvert to allow for fish passage									USFS replaced culvert in 2006
Gold / Libby Creeks	MR 1590	Habitat Diversity	Instream	Assessment	Throughout Assessment Unit	Assess current conditions and opportunities for projects									

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Gold / Libby Creeks	MR 1600	Habitat Diversity	Instream	Streambank Stabilization Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Mainstem, N. Fork Gold Creek.	Assess habitat issues associated with road locations						\$ 100,000			
Gold / Libby Creeks	MR 1610	Habitat Diversity	Instream	Channel Reconfiguration	Mainstem, N. Fork Gold Creek.	Add log and rock complexes to channel at key locations to reactivate floodplain where appropriate						\$ 150,000			
Gold / Libby Creeks	MR 1620	Habitat Diversity	Riparian Habitat	Fencing Livestock Exclusion	Throughout Assessment Unit	Identify areas and implement as appropriate	Identify areas and implement as appropriate	Identify areas and implement as appropriate	Identify areas and implement as appropriate						
Gold / Libby Creeks	MR 1630	Habitat Diversity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Notarro Diversion on Libby Creek	Convert surface diversion to groundwater well									
Gold / Libby Creeks	MR 1640	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	2 culverts at S. Fork. Gold and Rainy Cr., assess North Fork Gold	Implement Rainy/S Fork Gold, assess/design n. Fork	implement N. Fork.					\$ 160,000			USFS replaced culverts on Rainy Creek and South Fork in 2006
Gold / Libby Creeks	MR 1650	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Libby and mainstem Gold	Replace culverts						\$ 150,000			USFS replaced 2 on mainstem of Libby; 1 on the North; 2 on the South in 2005-2006
Gold / Libby Creeks	MR 1660	Obstructions	Fish Passage	Barriers Diversion Dam / Push-up Dam Removal Channel Reconfiguration	Libby and mainstem Gold	Assess issue of diversion dams throughout assessment unit and implement as appropriate	Implement as appropriate	Implement as appropriate							WDFW addressed push-up dam issue
Gold / Libby Creeks	MR 1670	Obstructions	Fish Passage	Culvert Improvements or Upgrades	Smith Canyon	Replace existing undersized, perched culvert to allow for fish passage									
Gold / Libby Creeks	MR 1680	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout	Mission Pond on NF, private pond on Smith Canyon Libby watershed	eliminate brook trout stocking on National Forest and private pond on Smith canyon	assess feasibility of eradication and implement as appropriate	maintain				\$ 75,000			WDFW stopped stocking brook trout in Libby and Gold (Bob Jateff)
Gold / Libby Creeks	MR 1690	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Throughout Assessment Unit	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Add nutrients using hatchery carcasses and/or carcass analogs	Add nutrients using hatchery carcasses and/or carcass analogs						
Beaver / Bear Creek	MR 1700	Habitat Diversity and Quantity	Off-Channel Wetlands	Beaver Introduction	Beaver Creek	Reestablish beaver populations on USFS and private where feasible.	Reestablish beaver populations on USFS and private where feasible.					\$ 75,000			Beavers successfully reintroduced in South Fork of Beaver Creek in 2001. USFS and Methow Conservancy implemented pilot project to reintroduce beavers throughout assessment unit in 2008.
Beaver / Bear Creek	MR 1710	Water Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit	Identify projects to increase water storage identified by Methow Watershed Council (MWC)	Implement projects to increase water storage identified by MWC	Implement projects to increase water storage identified by Methow Watershed Council MWC							
Beaver / Bear Creek	MR 1720	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate						To date, a total of 361 acres have been placed in conservation easement by the Methow Conservancy, of which 21 are in riparian areas.
Beaver / Bear Creek	MR 1730	Habitat Diversity and Quantity	Instream	Channel Reconfiguration	7 miles up Beaver Creek	Reestablish natural channel meander and gradient; remove riprap	Monitor and adaptively manage as appropriate								
Beaver / Bear Creek	MR 1740	Obstructions	Fish Screening	Fish Screen Installation Fish Screen Removal Fish Screen Replacement	Beaver Creek	Assess and implement improvements to fish return at Barclay	Implement as indicated								Between 2000 - 2008, BOR and WDFW replaced 8 screens

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Beaver / Bear Creek	MR 1750	Obstructions	Fish Passage	Fish Screen Installation Fish Screen Removal Fish Screen Replacement	Beaver Creek	Remove Batie barrier	Implement as indicated								Between 2000 - 2008, BOR and WDFW removed 7 barriers
Beaver / Bear Creek	MR 1760	Habitat Diversity and Quantity	Riparian Habitat	Fencing Livestock Exclusion	Blue, Buck, South Fork	Livestock exclusion fence maintenance on USFS						\$ 50,000			
Beaver / Bear Creek	MR 1770	Sediment	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Road Stream Crossing Improvements Channel Connectivity Sediment Control	Beaver Creek watershed - 131 miles of road.	Transportation planning in Beaver creek watershed: reconstruction, heavy maintenance, replace undersized culverts in Lightning Cr.	Implement as appropriate	maintain				\$ 150,000			
Beaver / Bear Creek	MR 1780	Habitat Diversity and Quantity	Instream	Streambank Stabilization Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Mainstem Beaver on NF and WDFW, South Fork Beaver.	Respect the River: 20 acres on NF and 40 acres on WDFW						\$ 25,000			
Beaver / Bear Creek	MR 1790	Habitat Diversity and Quantity	Instream	Large Woody Debris	S Fork Beaver	enforcement of NF firewood cutting regulations						\$ 15,000			
Beaver / Bear Creek	MR 1800	Habitat Diversity and Quantity	Instream	Beaver Introduction	Abandoned ponds on NF	Implement as appropriate						\$ 50,000			
Beaver / Bear Creek	MR 1810	Water Quantity	Instream Flow	Irrigation Practice Improvement	Beaver Creek	Evaluate / implement opportunities to increase flow through efficeincy improvemtns or water trust acquisitions	Implement as appropriate								
Beaver / Bear Creek	MR 1820	Water Quantity	Instream Flow	Irrigation Practice Improvement	Bear Creek	Evaluate / implement opportunities to increase flow through efficeincy improvemtns or water trust acquisitions	Implement as appropriate								
Beaver / Bear Creek	MR 1830	Water Quantity	Instream Flow	Irrigation Practice Improvement	Beaver Creek	Identify opportunities to establish Trust Water program participation	Identify opportunities to establish Trust Water program participation	Identify opportunities to establish Trust Water program participation	Identify opportunities to establish Trust Water program participation						
Beaver / Bear Creek	MR 1840	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	mainstem Beaver, Middle Fork = 2 high priority culverts and 2 medium priority culverts on Lightning Creek	culvert replacement for fish passage on USFS						\$ 320,000			USFS replaced culverts on mainstem, Blue Buck, Upper Lightning, Middle Fork, 3 on South Fork in 2006-2007; WSDOT replaced 2 culverts on HWY 153 in 2001 and 2006; MSRF replaced 5 Beaver Creek diversions in 2004-07; MSRF scheduled to replace last Beaver Creek diversion in 2009
Beaver / Bear Creek	MR 1850	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	Bear Creek - lower from Chewuch Spill to mouth	Identify opportunities / need for culvert replacement for fish passage	Implement as indicated								
Bear Creek	MR 1860	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Lower Bear Creek @ confluence with Methow	Side channel enhancements at Barclay, improvements at fish return	Implement as appropriate								
Beaver / Bear Creek	MR 1870	Habitat Diversity and Quantity	Riparian Habitat	Fencing Planting Livestock Exclusion Weed Control	Bear Creek	identify opportunities from Golf Course down	Implement as appropriate								
Beaver / Bear Creek	MR 1880	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout	Throughout Assessment Unit	explore feasibility of brook trout removal	Implement as appropriate					\$ 75,000			WDFW eliminated brook trout stocking on USFS land in 2006

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Lower Twisp (Mouth to Buttermilk)	MR 1890	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Throughout Assessment Unit	Side channel enhancements at MVID West; BOR Poorman reach assessment to identify future projects	Implement as appropriate	Implement as appropriate				\$ 800,000			MSRF completed dike removals and added complexity in the lower mile in 2002-06
Lower Twisp	MR 1900	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate			\$ 800,000			To date, a total of 228 acres have been placed in conservation easement by the Methow Conservancy, of which 124 are in riparian areas.
Lower Twisp	MR 1910	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	lower 8 miles of Twisp River	Evaluate effects of DOE ruling on MVID water rights	Implement projects as appropriate					\$ 400,000			MSRF completed Libby Hensler headgate removal and well conversion with BPA funds in 2006; MSRF abandoned Risley ditch in 2003
Lower Twisp	MR 1920	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Little Bridge Creek	Assess and implement as appropriate the improvement of late summer base flow condition	Implement projects as appropriate					\$ 260,000			OCD converted Tourangeau ditch to groundwater wells and abandoned the ditch in 2003
Lower Twisp	MR 1930	Water Quantity	Instream	Beaver Introduction	USFS in Little Bridge Creek, Buttermilk Creek and Poorman creek subwatersheds.	Re-introduce beavers in the mainstem Twisp where appropriate, on USFS in Little Bridge Creek, Buttermilk Creek and Poorman creek subwatersheds.	Re-introduce beavers in the mainstem Twisp where appropriate, on USFS in Little Bridge Creek, Buttermilk Creek and Poorman creek subwatersheds.					\$ 75,000			
Lower Twisp	MR 1940	Habitat Diversity and Quantity	Riparian Habitat	Fencing Livestock Exclusion Planting	Buttermilk Creek, Little Bridge Creek, Poorman Creek	Fence wetlands and riparian areas on USFS to allow recovery from livestock grazing and beaver recolonization. Protect steelhead and bull trout spawning areas.						\$ 45,000			OCD/USFS fenced out livestock in 2 miles of Little Bridge Creek in 2006-07; included riparian planting
Lower Twisp	MR 1950	Habitat Diversity and Quantity	Riparian Habitat	Fencing Livestock Exclusion Planting	Main stem	Implement BPA riparian projects at Daudon and Twisp River LLC. (just downstream from Buttermilk Creek confluence)	Implement BPA riparian at other conservation easment locations as indicated								Implementation started 2006 at Daudon and Twisp LLC
Lower Twisp	MR 1960	Habitat Diversity and Quantity	Fish Passage	Barriers Diversion Dam / Push-up Dam Removal Channel Reconfiguration Weirs	Mainstem Twisp River - MVID West diversion	Remove or modify diversion structures, levees and dikes where appropriate						\$ 720,000			USFS/Libby Hensler Ditch Co created side channel from old ditch with BPA funds in 2006
Lower Twisp	MR 1970	Habitat Diversity and Quantity	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	Buttermilk Cr. , Poorman Creek.	Continue to replace undersized culvert to restore alluvial fan function and delivery of LWD and gravel to Twisp River.	Continue to replace undersized culverts					\$ 175,000			USFS replaced 2 culverts on Little Bridge Cr in 2001; Aspen meadows diversion dam was rebuilt for fish passage in 2005; USFS replaced culvert at Poorman Creek in 2006

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Lower Twisp	MR 1980	Sediment	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Channel Connectivity Sediment Control	On USFS in Twisp Watershed including Buttermilk, Little Bridge, Poorman subwatersheds.	Transportation planning leading to road reconstruction, heavy maintenance and obliteration where appropriate.	Monitor road condition and status, road system maintenance	Monitor road condition and status, road system maintenance	Monitor road condition and status, road system maintenance			\$ 50,000			USFS obliterated Dry Creek road in Little Bridge Cr in 2005
Lower Twisp	MR 1990	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Mainstem Twisp River, and Little Bridge Creek	Continue implementation of Respect the River program at dispersed and developed recreation sites						\$ 25,000			
Lower Twisp	MR 2000	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Elbow Coulee	Implement side channel connection project						\$ 135,000			
Lower Twisp	MR 2010	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	Mouth of Little Bridge	Replace undersized culvert						\$ 350,000			
Lower Twisp	MR 2020	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout	mainstem Twisp River, Black Pine Lake, War Creek	Asses actions to reduce and remove brook trout from the Twisp River.						\$ 75,000			WDFW eliminated stocking program in Black Pine Lake
Lower Twisp	MR 2030	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Throughout Assessment Unit	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Upper Twisp (Buttermilk to Wildness Boundary)	MR 2040	Sediment	Riparian Habitat	Recreation Management Livestock Exclusion	on South Creek and North Creek trails.	monitor trail condition from excessive horse use and erosion						\$ 10,000			
Upper Twisp	MR 2050	Water Quantity	Instream	Assessment	Poplar Flats	Assess dewatering mechanism	Implement projects as appropriate					\$ 75,000			
Upper Twisp	MR 2060	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate			\$ 25,000			To date, a total of 131 acres have been placed in conservation easement by the Methow Conservancy, of which 128 are in riparian areas.
Upper Twisp	MR 2070	Obstructions	Fish Passage	Weirs	Near Mouth of War Creek	Remove War Creek Weirs						\$ 50,000			USFS replaced the culverts with a bridge in 2004 and removed the weirs in 2006
Upper Twisp	MR 2080	Obstructions	Fish Passage	Culvert Removal	Throughout Assessment Unit	Remove undersized culverts									USFS removed culverts at North, Scatter, East Fork Buttermilk, and Eagle Creeks between 2001-2007;
Upper Twisp	MR 2090	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Improvement or Enhancement Wetland Restoration Wetland Vegetation Planting	North Creek/Gilbert area, Reynolds Creek	Relocate Twisp River trail to top end of fan, reduce road density on fan, remove abandoned Klinkert cabin, irrigation pipe and revegetate site; continue to implement Respect the River at large dispersed site.						\$ 90,000	\$60,000		USFS obliterated half-mile of road, removed the cabin and removed the irrigation system in 2006; relocated trail in 2007
Upper Twisp	MR 2100	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Improvement or Enhancement Wetland Restoration Wetland Vegetation Planting	Twisp River mainstem, Gilbert, Roads End campground	Continue to implement Respect the River program	Continue to implement Respect the River program					\$ 25,000			

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Upper Twisp	MR 2110	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout	Mainstem Twisp, War Creek	Asses actions to reduce and remove brook trout from the Twisp River.						\$ 75,000			
Upper Twisp	MR 2120	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Throughout Assessment Unit	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Lower Chewuch (Mouth to Eight Mile)	MR 2130	Water Quantity	Instream	Beaver Introduction	Throughout Assessment Unit	Improve natural water storage by allowing beaver recolonization	Improve natural water storage by allowing beaver recolonization					\$ 75,000			
Lower Chewuch	MR 2140	Sediment	Sediment Reduction	Road Reconstruction Road Relocation Road Obliteration Road Drainage System Improvements Channel Connectivity Sediment Control	Throughout Assessment Unit	There are 579 miles of open road and 75 miles of closed road on USFS lands within the Chewuch watershed; 160 miles are within 200 feet of streams and there are over 1000 stream crossings. (Chewuch Watershed Analysis, 1994)						\$ 1,600,000			USFS conducted roads analysis for Eightmile Creek in 2008
Lower Chewuch	MR 2150	Habitat Diversity and Quantity	Land Protection, Acquisition, or Lease	Streambank Protection Upland Protection Wetland Protection	Throughout Assessment Unit	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate	Implement Conservancy easements as appropriate			\$ 800,000			To date, a total of 6 acres have been placed in conservation easement by the Methow Conservancy, of which 6 are in riparian areas.
Lower Chewuch	MR 2160	Habitat Diversity	Riparian Habitat	Fencing Planting Livestock Exclusion	Eightmile, Cub, Falls, Boulder Cr. Subwatersheds	fence riparian areas and wetlands; maintain existing fences	Implement as appropriate	maintain	maintain			\$ 7,000			
Lower Chewuch	MR 2170	Habitat Diversity	Riparian Habitat	Recreation Management	mainstem Chewuch, Eightmile Creek	Continue Respect the River program	Continue Respect the River program					\$ 25,000			
Lower Chewuch	MR 2180	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat Large Woody Debris Log Structure or Log Jam	Throughout Assessment Unit		BOR to conduct reach assessment in 2011; Evaluate and implement as appropriate	Implement projects as appropriate	Implement projects as appropriate			\$ 800,000			
Lower Chewuch	MR 2190	Habitat Diversity and Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat Large Woody Debris Log Structure or Log Jam	McPhearson	Implement culvert removal, bridge construction and channel improvements under BPA award									MSRF reconfigured channel and replaced culvert with bridge in 2007-08. Flow augmentation agreement in McPherson channel completed in 2004 through USFS Skyline use permit
Lower Chewuch	MR 2200	Habitat Diversity and Quantity	Instream	Large Woody Debris	Pete Creek	Install LWD structure for off-channel rearing improvements									
Lower Chewuch	MR 2210	Obstructions	Fish Passage	Road Crossings Channel Reconfiguration	Eightmile RM 1.7 USFS	Reconstruct road and channel for about 300'						\$ 250,000			
Lower Chewuch	MR 2220	Obstructions	Fish Passage	Diversion Dam / Push-up Dam Removal	Fulton and Chewuch	Remove diversion dams at Fulton and Chewuch						\$ 1,400,000			MSRF removed Chewuch in 2005 and Fulton in 2007
Lower Chewuch	MR 2230	Obstructions	Fish Screening	Fish Screen Replacement	Throughout Assessment Unit	Assess and replace pump screens on diversions									WDFW replaced screens on Skyline, Chewuch, Fulton and Mason in 2001
Lower Chewuch	MR 2240	Water Quantity	Instream Flow	Irrigation Practice Improvement	Skyline at RM 8.2	Complete trust agreement as appropriate						\$ 800,000			6.2 miles of Skyline piped. Flow reduction from 18 cfs diversion to 5.0 cfs accomplished 2002-2006 CBC / MSRF

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Lower Chewuch	MR 2250	Water Quantity	Instream Flow	Irrigation Practice Improvement	Chewuch Ditch at RM 7.9	Implement efficiency improvements and flow lease agreements	Implement long-term flow protection agreements as appropriate					\$ 700,000	\$ 490,000		2 +/- miles piped on CCC
Lower Chewuch	MR 2260	Water Quantity	Instream Flow	Irrigation Practice Improvement	Lower Eight Mile	Convert diversion ditch to wells							\$ 85,000		USFS / MSRF converted from surface to wells on Eight Mile Ranch in 2005
Lower Chewuch	MR 2270	Water Quantity	Instream Flow	Irrigation Practice Improvement	Fulton Canal Co. RM .2	Impelement efficiency improvemtns to reduce diversion needs	Impelement efficiency improvemtns to reduce diversion needs	Implement long-term flow protection agreements as appropriate					\$ 120,000		Initiated in 2004 CBC / MSRF
Lower Chewuch	MR 2280	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout	Boulder, Falls, Eightmile, Cub Creeks	explore options for brook trout population reduction						\$ 75,000			
Lower Chewuch	MR 2290	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Throughout Assessment Unit	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Upper Chewuch (Eightmile to Chewuch Falls)	MR 2300	Water Quantity	Project Maintenance	Site Maintenance	Andrews Creek	Maintain USGS flow gauge	Maintain USGS flow gauge	Maintain USGS flow gauge	Maintain USGS flow gauge			\$ 20,000			
Upper Chewuch	MR 2310	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Black Lake and upper Lake Creek	Implement Respect the River type projects adjacent to spawning and key rearing areas						\$ 25,000			
Upper Chewuch	MR 2320	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	RM 23	Move the road, remove the riprap, install log structures and evaluate channel reconfiguration	Implement as appropriate					\$ 335,000	\$ 175,000		USFS moved the road in 2007
Upper Chewuch	MR 2330	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Improvement or Enhancement Wetland Restoration Wetland Vegetation Planting	Throughout Assessment Unit	Continue Respect the River	Continue Respect the River	Continue Respect the River	Continue Respect the River			\$ 25,000			
Upper Chewuch	MR 2340	Habitat Diversity and Quantity	Off-Channel Wetlands	Beaver Introduction	Throughout Assessment Unit	Reintroduce beaver throughout the watershed, especially Black Lake						\$ 75,000			
Upper Chewuch	MR 2350	Species Interactions	Reduce or Eliminate Negative Species Interactions	Reduce or Eliminate Brook Trout	Throughout Assessment Unit up to Twenty Mile Cr	explore options for brook trout population reduction						\$ 75,000			
Upper Chewuch	MR 2360	Depleted Nutrients	Nutrient Enrichment	Fertilizer Carcass Analog Carcass Placement	Throughout Assessment Unit	Evaluate approach, identify appropriate methods and obtain permits and approval	Add nutrients using hatchery carcasses and/or carcass analogs	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.	Continue to add nutrients to make up the difference between annual escapement and needed abundance for recovery.			\$ 12,000			
Wolf / Hancock Creeks	MR 2370	Water Quantity	Instream Flow	Irrigation Practice Improvement	Wolf Creek	Evaluate well conversions	Implement as appropriate					\$ 175,000			WCRD replaced open ditch with pipe; converted to wells; 2001-09
Wolf / Hancock Creeks	MR 2380	Water Quantity	Instream Flow	Change Point of Diversion	Wolf Creek	Evaluate options to change point of diversions									BOR, WCRD, USFS replaced diversion dam in 2006
Wolf / Hancock Creeks	MR 2390	Obstructions	Fish Screening	Fish Screen Installation	Wolf Creek	Assess and replace pump screens on diversions									BOR, WCRD, USFS installed screen at diversion dam in 2001
Wolf / Hancock Creeks	MR 2400	Obstructions	Fish Passage	Weirs (log or rock)	Wolf Creek	Evaluate existing structures for passage	Implement as appropriate								
Wolf / Hancock Creeks	MR 2410	Habitat Diversity and Quantity	Upland Agriculture	Livestock Management	Wolf Creek	Grazing buyout									USFS grazing permit purchased by conservation buyer from holder in 2005; currently in non-use

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Wolf / Hancock Creeks	MR 2420	Habitat Diversity and Quantity	Riparian Habitat	Planting	Wolf Creek	Riparian re-plantings protection (1 stream mile - lower) conservations easement						\$ 30,000			
Wolf / Hancock Creeks	MR 2430	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Hancock Creek	Evaluate irrigation efficiencies and water banking	Implement opportunities for Trust Water program participation as appropriate					\$ 10,000			
Wolf / Hancock Creeks	MR 2440	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Patterson Lake		Assess opportunities to increase water storage in Patterson Lake	Implement							
Wolf / Hancock Creeks	MR 2450	Habitat Diversity and Quantity	Riparian Habitat	Fencing Livestock Exclusion Planting	Hancock Creek	Evaluate and implement as appropriate						\$ 50,000			YN completed in 2008
Wolf / Hancock Creeks	MR 2460	Habitat Diversity and Quantity	Off-Channel Wetlands	Wetland Restoration Wetland Vegetation Planting	Hancock Creek	Restoration 30%+ of lineal stream area	Implement as appropriate					\$ 10,000			YN completed in 2008
Wolf / Hancock Creeks	MR 2470	Habitat Diversity and Quantity	Instream	Large Woody Debris	Hancock Creek	Evaluate and implement as appropriate						\$ 150,000			YN completed in 2008
Wolf / Hancock Creeks	MR 2480	Habitat Diversity and Quantity	Instream	Log Structure or Log Jam	Hancock Creek	Evaluate and implement as appropriate						\$ 150,000			YN completed in 2008
Goat / Little Boulder Creeks	MR 2490	Water Quantity	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Goat Creek	Evaluate efficiencies and intake structure, and implement as appropriate	Evaluate efficiencies and intake structure, and implement as appropriate					\$ 75,000			
Goat / Little Boulder Creeks	MR 2500	Water Quantity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Goat Creek	Evaluate and implement as appropriate						\$ 120,000			
Goat / Little Boulder Creeks	MR 2510	Habitat Diversity	Instream	Channel Connectivity Channel Reconfiguration Off-Channel Habitat	Goat Cr. Fan on USFS and private land	Reactivate historic channel to split flow on alluvial fan and improve function						\$ 800,000			
Goat / Little Boulder Creeks	MR 2520	Habitat Diversity	Instream	Large Woody Debris	Goat Creek around Vanderpool crossing at RM 6.5 to 7.7	Add LWD complexes to channel to match natural wood loads in functioning reaches of Goat Creek						\$ 210,000			
Goat / Little Boulder Creeks	MR 2530	Habitat Diversity and Quantity	Riparian Habitat	Planting Fencing Livestock Exclusion Conservation Grazing Management	USFS lands Upper Goat	about 1 mile replanting and restoration; evaluate options for livestock management in bull trout spawning areas	Evaluate options for livestock management in bull trout spawning areas	Evaluate options for livestock management in bull trout spawning areas	Evaluate options for livestock management in bull trout spawning areas			\$ 30,000			
Goat / Little Boulder Creeks	MR 2540	Habitat Diversity and Quantity	Fish Passage	Road Crossings Channel Reconfiguration	Goat Creek	Re-establish alluvial fan function - County road bridge and reconstruction	Re-establish alluvial fan function - County road bridge and reconstruction	Re-establish alluvial fan function - County road bridge and reconstruction				\$ 400,000			
Goat / Little Boulder Creeks	MR 2550	Sediment	Sediment Reduction	Road Reconstruction Road Relocation Channel Connectivity Road Drainage System Improvements Road Obliteration Erosion Control Structures Sediment Control	USFS lands - Upper Goat	Assess and inventory road reconstructions and obliterations	Implement as appropriate					\$ 180,000			
Goat / Little Boulder Creeks	MR 2560	Obstructions	Instream Flow	Water Leased or Purchased Change Point of Diversion Irrigation Practice Improvement	Goat Creek	Reconstruct irrigation diversion						\$ 150,000			

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Goat / Little Boulder Creeks	MR 2570	Obstructions	Fish Passage	Road Crossings Channel Reconfiguration	Goat Creek	Trail Bridge reconstruction USFS (MVSTA)						\$ 100,000			
Goat / Little Boulder Creeks	MR 2580	Obstructions	Fish Passage	Road Crossings Channel Reconfiguration	Goat Creek	Trail Bridge reconstruction (Private)	Evaluate channel reconfiguration options					\$ 100,000			
Goat / Little Boulder Creeks	MR 2590	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	Little Boulder Creek										culvert replaced by WSDOT on little boulder in 2005
Goat / Little Boulder Creeks	MR 2600	Obstructions	Fish Passage	Culvert Improvements or Upgrades Culvert Removal Channel Reconfiguration	Goat Creek Rd at White Face Creek	Evaluate options to replace the barrier	Implement as appropriate								culvert replaced on little boulder in 2006