

2008
WRIA 32 Watershed Plan Project Update

AREA	TABLE/ Action	LOCATION	WP LEAD	PROJECT CONTACT	DESCRIPTION	SCHEDULE	COST LEVEL	STATUS
Upper Touchet Implementation Area								
Upper Touchet Implementation Area	11-1.1	Individual irrigators (throughout area)	CCD	Terry Bruegman	Improve irrigation efficiencies and upgrade diversions where needed.	By 2015	Medium	Pending
Upper Touchet Implementation Area	11-1.10	Headwaters (USFS property)	USFS	Steve Martin	Improve passage at the Ski Bluewood access road culvert.	By 2006	Low	Pending
Upper Touchet Implementation Area	11-1.11	Lewis Creek	USFS	Steve Martin	Lewis Creek Fuels & Veg. Mgmt. Project: increase wildlife habitat, riparian vegetation enhancement, review of road management to decrease sediment.	By 2010	Medium	PENDING
Upper Touchet Implementation Area	11-1.12	North Fork Touchet	USFS	Steve Martin	Install restroom facilities at Middle Point Ridge Trailhead & improve drainage for springs.	By 2015	Low	PENDING
Upper Touchet Implementation Area	11-1.13	North Fork Touchet	USFS	Steve Martin	Replace existing culvert under Forest Road 6400650 with bridge providing drainage for springs.	By 2012	Low	PENDING
Upper Touchet Implementation Area	11-1.14	North Fork Touchet (Tamarack Trail)	USFS	Steve Martin	Install 3 culverts where stream crosses Tamarack Trail.	By 2012	Low	PENDING
Upper Touchet Implementation Area	11-1.15	Surface waters within the IA	CCD		Install/upgrade screens for remaining diversions as part of basin-wide screening program. See Section 10 for additional detail.	By 2010	Medium	ACTIVE
Upper Touchet Implementation Area	11-1.16	Implementation area-wide with focus on Griffin/Burnt/Green Forks	USFS, Columbia County	Terry Bruegman	Analyze and manage the impacts of recreational development, including construction of cabins and day-use facilities. Also, see Action 29.	By 2007	Low	NO INFO
Upper Touchet Implementation Area	11-1.17	Upper reaches/headwater areas	USFS, Columbia County	Steve Martin	Work with private and public landowners to use best management practices to maintain and enhance pristine and other areas of the Upper Touchet implementation area.	Ongoing	Low	COMPLETE
Upper Touchet Implementation Area	11-1.18	North Fork and tributaries	CCD	Steve Martin	Conduct detailed irrigation efficiency opportunities study to develop updated target enhancement flow as measured at MP 6a (North Fork just above South Fork confluence).	By 2010	Low	COMPLETE

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Upper Touchet Implementation Area	11-1.19	Detour Road Bridge (MP 5a), Touchet Mainstem at Bolles (MP 11), Mill Creek at Kooskooskie (MP 1), North Fork (MP 6a)	Ecology		Amend Chapter 173-532 WAC to establish minimum instream flows as described in Section 6.	By 2007	Medium	COMPLETE
Middle Touchet Implementation Area								
Middle Touchet Implementation Area	11-2.12	Surface waters within the IA	CCD, WWCCD		Install/upgrade screens for remaining diversions as part of basin-wide screening program. See Section 10 for additional detail.	By 2010	Medium	ACTIVE
Mill Creek Implementation Area								
Mill Creek Implementation Area	11-3.17	Surface waters within the IA	CCD, WWCCD		Install/upgrade screens for remaining diversions as part of basin-wide screening program. See Section 10 for additional detail.	By 2010	Medium	ACTIVE
Walla Walla / College Place Implementation Area								
Walla Walla /College Place Implementation Area	11-4.31	Surface waters within the IA	CCD, WWCCD		Install/upgrade screens for remaining diversions as part of basin-wide screening program. See Section 10 for additional detail.	By 2010	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area								
Lower Walla Walla / Touchet Implementation Area	11-5.19	Surface waters within the IA	WWCCD		Install/upgrade screens for remaining diversions as part of basin-wide screening program. See Section 10 for additional detail.	By 2010	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.18	Detour Road Bridge (MP 5a), Touchet Mainstem at Bolles (MP 11), Mill Creek at Kooskooskie (MP 1), North Fork (MP 6a)	Ecology		Amend Chapter 173-532 WAC to establish minimum instream flows as described in Section 6.	By 2007	Medium	COMPLETE

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Mill Creek Implementation Area	11-3.18	Detour Road Bridge (MP 5a), Touchet Mainstem at Bolles (MP 11), Mill Creek at Kooskooskie (MP 1), North Fork (MP 6a)	Ecology		Amend Chapter 173-532 WAC to establish minimum instream flows as described in Section 6.	By 2007	Medium	COMPLETE
Lower Walla Walla / Touchet Implementation Area	11-5.25	Detour Road Bridge (MP 5a), Touchet Mainstem at Bolles (MP 11), Mill Creek at Kooskooskie (MP 1), North Fork (MP 6a)	Ecology		Amend Chapter 173-532 WAC to establish minimum instream flows as described in Section 6.	By 2007	Medium	COMPLETE
Upper Touchet Implementation Area	11-1.2	Drainage facilities on rural roads	Columbia County	Public Works	Develop plan and implement projects that improve stormwater management to improve treatment and increase groundwater infiltration.	Plan by 2007 Implement by 2015	Medium	NO INFO
Mill Creek Implementation Area	11-3.6	Drainage facilities on rural roads	Walla Walla County	Public Works	Develop plan and implement projects that improve stormwater management to improve treatment and increase groundwater infiltration.	Plan by 2007 Implement by 2015	Medium	NO INFO
Upper Touchet Implementation Area	11-1.20	Entire IA's (except in Mill Creek IA above MP 1)	Ecology	Mimi Waiwright	Amend Chapter 173-532 WAC, administrative stream closures, as described in Section 6.	By 2007	Low	COMPLETE
Middle Touchet Implementation Area	11-2.19	Entire IA's (except in Mill Creek IA above MP 1)	Ecology	Mimi Waiwright	Amend Chapter 173-532 WAC, administrative stream closures, as described in Section 6.	By 2007	Low	COMPLETE
Mill Creek Implementation Area	11-3.19	Entire IA's (except in Mill Creek IA above MP 1)	Ecology	Mimi Waiwright	Amend Chapter 173-532 WAC, administrative stream closures, as described in Section 6.	By 2007	Low	COMPLETE
Walla Walla /College Place Implementation Area	11-4.34	Entire IA's (except in Mill Creek IA above MP 1)	Ecology	Mimi Waiwright	Amend Chapter 173-532 WAC, administrative stream closures, as described in Section 6.	By 2007	Low	COMPLETE
Lower Walla Walla / Touchet Implementation Area	11-5.23	Entire IA's (except in Mill Creek IA above MP 1)	Ecology	Mimi Waiwright	Amend Chapter 173-532 WAC, administrative stream closures, as described in Section 6.	By 2007	Low	COMPLETE

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AREA	TABLE/ Action	LOCATION	WP LEAD	PROJECT CONTACT	DESCRIPTION	SCHEDULE	COST LEVEL	STATUS
Upper Touchet Implementation Area	11-1.21	Entire IA's, with special focus in the Walla Walla / College Place Implementation Area on the riparian wetlands and fish habitat conservation areas (critical areas), with near-term emphasis on Yellowhawk and Mill Creeks	Walla Walla County, Columbia County, DNR, USFS, City of Dayton, City of Waitsburg, City of Walla Walla, City of College Place	Terry Bruegman	Implement/enforce federal, state and local land use regulations to protect critical areas in the implementation area. Review and update, as needed, a best-available-science-based riparian buffer zones and critical areas regulations.	Ongoing	Medium	NO INFO
Middle Touchet Implementation Area	11-2.20	Entire IA's, with special focus in the Walla Walla / College Place Implementation Area on the riparian wetlands and fish habitat conservation areas (critical areas), with near-term emphasis on Yellowhawk and Mill Creeks	Walla Walla County, Columbia County, DNR, USFS, City of Dayton, City of Waitsburg, City of Walla Walla, City of College Place	Terry Bruegman	Implement/enforce federal, state and local land use regulations to protect critical areas in the implementation area. Review and update, as needed, a best-available-science-based riparian buffer zones and critical areas regulations.	Ongoing	Medium	NO INFO
Mill Creek Implementation Area	11-3.20	Entire IA's, with special focus in the Walla Walla / College Place Implementation Area on the riparian wetlands and fish habitat conservation areas (critical areas), with near-term emphasis on Yellowhawk and Mill Creeks	Walla Walla County, Columbia County, DNR, USFS, City of Dayton, City of Waitsburg, City of Walla Walla, City of College Place	WW County Community Development	Implement/enforce federal, state and local land use regulations to protect critical areas in the implementation area. Review and update, as needed, a best-available-science-based riparian buffer zones and critical areas regulations.	Ongoing	Medium	NO INFO
Walla Walla /College Place Implementation Area	11-4.32	Entire IA's, with special focus in the Walla Walla / College Place Implementation Area on the riparian wetlands and fish habitat conservation areas (critical areas), with near-term emphasis on Yellowhawk and Mill Creeks	Walla Walla County, Columbia County, DNR, USFS, City of Dayton, City of Waitsburg, City of Walla Walla, City of College Place	WW County Community Development	Implement/enforce federal, state and local land use regulations to protect critical areas in the implementation area. Review and update, as needed, a best-available-science-based riparian buffer zones and critical areas regulations.	Ongoing	Medium	NO INFO
Lower Walla Walla / Touchet Implementation Area	11-5.24	Entire IA's, with special focus in the Walla Walla / College Place Implementation Area on the riparian wetlands and fish habitat conservation areas (critical areas), with near-term emphasis on Yellowhawk and Mill Creeks	Walla Walla County, Columbia County, DNR, USFS, City of Dayton, City of Waitsburg, City of Walla Walla, City of College Place	WW County Community Development	Implement/enforce federal, state and local land use regulations to protect critical areas in the implementation area. Review and update, as needed, a best-available-science-based riparian buffer zones and critical areas regulations.	Ongoing	Medium	NO INFO

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Upper Touchet Implementation Area	11-1.22	Lands within the Mill Creek and Upper Touchet IA's zoned 10 acres or less and the Coppei, Whiskey, Dry and Patit drainages of the Middle Touchet IA with zoning density of 10 acres or less	Counties and Ecology		Conduct detailed hydrogeology study to understand existing and potential impacts of rural residential development (e.g., exempt wells). Identify projected water demand for future build out, based upon county zoning.	By 2007	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.21	Lands within the Mill Creek and Upper Touchet IA's zoned 10 acres or less and the Coppei, Whiskey, Dry and Patit drainages of the Middle Touchet IA with zoning density of 10 acres or less	Counties and Ecology		Conduct detailed hydrogeology study to understand existing and potential impacts of rural residential development (e.g., exempt wells). Identify projected water demand for future build out, based upon county zoning.	By 2007	Medium	ACTIVE
Mill Creek Implementation Area	11-3.23	Lands within the Mill Creek and Upper Touchet IA's zoned 10 acres or less and the Coppei, Whiskey, Dry and Patit drainages of the Middle Touchet IA with zoning density of 10 acres or less	Counties and Ecology		Conduct detailed hydrogeology study to understand existing and potential impacts of rural residential development (e.g., exempt wells). Identify projected water demand for future build out, based upon county zoning.	By 2007	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.26	Lands within the Mill Creek and Upper Touchet IA's zoned 10 acres or less and the Coppei, Whiskey, Dry and Patit drainages of the Middle Touchet IA with zoning density of 10 acres or less	Counties and Ecology		Conduct detailed hydrogeology study to understand existing and potential impacts of rural residential development (e.g., exempt wells). Identify projected water demand for future build out, based upon county zoning.	By 2007	Medium	ACTIVE
Upper Touchet Implementation Area	11-1.23	Entire IA	WDFW, Counties		Identify specific stream fords that could be eliminated by installing bridges or culverts. Pursue project funding.	By 2020	Medium	COMPLETE
Upper Touchet Implementation Area	11-1.3	Implementation area-wide	WSU Cooperative Extension	John Fouts (WSU)	Work with individual landowners to review pesticide and fertilizer use in upland areas and continue implementing best management practices to reduce erosion and limit water quality impacts.	Ongoing	Low	ACTIVE

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AREA	TABLE/ Action	LOCATION	WP LEAD	PROJECT CONTACT	DESCRIPTION	SCHEDULE	COST LEVEL	STATUS
Middle Touchet Implementation Area	11-2.10	Implementation area-wide	WSU Cooperative Extension	John Fouts (WSU)	Work with individual landowners to review pesticide and fertilizer use in upland areas and continue implementing best management practices to reduce erosion and limit water quality impacts.	Ongoing	Low	ACTIVE
Mill Creek Implementation Area	11-3.5	Implementation area-wide	WSU Cooperative Extension	Debbie Moberg (WSU)	Work with individual landowners to review pesticide and fertilizer use in upland areas and continue implementing best management practices to reduce erosion and limit water quality impacts.	Ongoing	Low	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.16	Implementation area-wide	WSU Cooperative Extension	Debbie Moberg (WSU)	Work with individual landowners to review pesticide and fertilizer use in upland areas and continue implementing best management practices to reduce erosion and limit water quality impacts.	Ongoing	Low	ACTIVE
Upper Touchet Implementation Area	11-1.4	State property and headwaters (USFS property)	DNR, USFS	Steve Martin	Decommission and revegetate any unused logging/access roads, and construct any new logging/access roads on ridge tops where possible.	Ongoing	High	ACTIVE
Middle Touchet Implementation Area	11-2.11	State property and headwaters (USFS property)	DNR, USFS	Steve Martin	Decommission and revegetate any unused logging/access roads, and construct any new logging/access roads on ridge tops where possible.	Ongoing	High	ACTIVE
Upper Touchet Implementation Area	11-1.5	1) North Fork Touchet 2) Wolf Fork 3) South Fork Touchet	CCD	Terry Bruegman	Identify and evaluate potential impacts associated with ponds on private land, including thermal inputs, species introduction hazards, and diversions. Implement feasible projects.	Evaluate by 2008 Implement by 2011		

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Upper Touchet Implementation Area	11-1.6	1) North Fork Touchet 2) South Fork Touchet 3) Wolf Fork 4) Robinson Creek 5) Griffen and Burnt Forks 6) Green Fork	CCD	Terry Bruegman	Remove existing non-essential structures from floodplains, including private ponds and low-use roads. Remove where feasible. (Note – the ability to remove roads is likely to be limited).	Identify by 2010 Implement by 2020	High	Pending
Upper Touchet Implementation Area	11-1.7	Headwaters (USFS property)	USFS	Steve Martin	Improve drainage & pave road from county road. to Ski Bluewood.	By 2006	Medium	COMPLETE
Upper Touchet Implementation Area	11-1.8	Headwaters (USFS property)	USFS	Steve Martin	Improve road maintenance and install protections to reduce fuels, oils and chemical inputs to the North Fork to reduce sediment and other water quality impacts.	By 2006	Low	COMPLETE
Upper Touchet Implementation Area	11-1.9	Entire Lower Walla Walla/Touchet and Middle Touchet IA's, and the Upper Touchet IA in select areas (Wolf Creek above Whitney Creek, the upper 5 mi of Wolf Fork, Burnt Fork, Upper 5 mi of N Fork of Touchet River, and the South Fork Touchet)	CCD, WDFW		Expand riparian enhancement (including CREP participation) and implement site-specific BMPs (e.g., placement of large woody debris, long-term recruitment from riparian planting, etc.) for restoration of degraded riparian areas and streams.	By 2020	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.17	Entire Lower Walla Walla/Touchet and Middle Touchet IA's, and the Upper Touchet IA in select areas (Wolf Creek above Whitney Creek, the upper 5 mi of Wolf Fork, Burnt Fork, Upper 5 mi of N Fork of Touchet River, and the South Fork Touchet)	CCD, WWCCD, WDFW		Expand riparian enhancement (including CREP participation) and implement site-specific BMPs (e.g., placement of large woody debris, long-term recruitment from riparian planting, etc.) for restoration of degraded riparian areas and streams.	By 2020	Medium	ACTIVE

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Lower Walla Walla / Touchet Implementation Area	11-5.20	Entire Lower Walla Walla/Touchet and Middle Touchet IA's, and the Upper Touchet IA in select areas (Wolf Creek above Whitney Creek, the upper 5 mi of Wolf Fork, Burnt Fork, Upper 5 mi of N Fork of Touchet River, and the South Fork Touchet)	WWCCD, WDFW		Expand riparian enhancement (including CREP participation) and implement site-specific BMPs (e.g., placement of large woody debris, long-term recruitment from riparian planting, etc.) for restoration of degraded riparian areas and streams.	By 2020	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.1	West End Ditch (Touchet mainstem)	Ditch Board, CCD		Continue to replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2008		ACTIVE
Middle Touchet Implementation Area	11-2.13	Whiskey Creek - Dam at RM 1.0 Dry Creek - Failed culvert at RM 28.8	WDFW, CTUIR, and SRFB		Removed fish barriers.		N/A	COMPLETE
Middle Touchet Implementation Area	11-2.14	Juvenile Fishing Pond in Dayton (Touchet mainstem)	CCD, City of Dayton, Walla Walla Watershed Alliance		Convert fishing pond water source from gravity diversion to screened pump system or consider use of a shallow well.	By 2006	Medium	COMPLETE
Middle Touchet Implementation Area	11-2.15	Upper elevations of Coppei, Whiskey, Dry and Patit	WDFW, Walla Walla County, Columbia County		Identify specific stream fords that could be eliminated, and modify (e.g., install bridge or culvert) fords at suitable locations.	By 2020	High	COMPLETE
Middle Touchet Implementation Area	11-2.16	Surface water irrigation systems within area	WWCCD and CCD	Terry Bruegman	Conduct detailed irrigation efficiency opportunities study to develop updated target enhancement flow as measured	By 2007	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.2	Hearn Ditch (Touchet mainstem)	Ditch Board, CCD	Terry Bruegman	Continue to replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2008		ACTIVE
	11-2.22	Cities of Dayton and Waitsburg	City of Dayton, City of Waitsburg, USACE	Terry Bruegman	Pursue feasibility study funding to evaluate modifying Dayton and Waitsburg dikes, and if modifications feasible then pursue project funding.	Long-term	High	NO INFO
Middle Touchet Implementation Area	11-2.23	Waitsburg	City of Waitsburg, others TBD		Investigate feasibility of using wells for summer supplies to Waitsburg to enhance instream flow levels in Coppei Creek up to .5 cfs.	Near	Medium-High	NO INFO

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Middle Touchet Implementation Area	11-2.24	Whiskey Creek	TBD		Enhance understanding of Whiskey Creek hydrology to determine appropriate flow enhancement	Mid-term	Low	NO INFO
Middle Touchet Implementation Area	11-2.3	East End Ditch (Touchet mainstem)	Ditch Board and CCD		Replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2008		ACTIVE
Middle Touchet Implementation Area	11-2.4	West End and Hearn Ditches (Touchet mainstem)	Ditch Board, CCD and WDFW		Consolidate the diversions with the Dayton acclamation pond intake structure.	By 2008		ACTIVE
Middle Touchet Implementation Area	11-2.5	Huntsville Ditch (Touchet mainstem)	Ditch Board and CCD	Terry Bruegman	Replace earth-lined open ditches with closed-conduit gravity piping.	By 2015		Pending
Middle Touchet Implementation Area	11-2.6	Individual irrigators (throughout area)	WWCCD and CCD	Rick Jones Terry Bruegman	Improve irrigation efficiencies and upgrade diversions where needed.	By 2015	Medium	Pending
Middle Touchet Implementation Area	11-2.7	Cities of Dayton, Waitsburg, and Prescott water service areas	City of Dayton, City of Waitsburg, City of Prescott	Terry Bruegman	Implement water conservation elements as outlined in water system plans.	Ongoing	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.12	Cities of Dayton, Waitsburg, and Prescott water service areas	City of Dayton, City of Waitsburg, City of Prescott	Terry Bruegman	Implement water conservation elements as outlined in water system plans.	Ongoing	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.8	Drainage facilities on roads in Dayton and Waitsburg, and rural roads	City of Dayton, City of Waitsburg, Walla Walla County, Columbia County, WSDOT		Identify and implement projects to manage stormwater to improve treatment and increase groundwater infiltration.	Mid-term	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.15	Wellhead capture zones in Dayton, Prescott, Waitsburg, and Coppei springs	City of Dayton, City of Prescott, City of Waitsburg, Walla Walla County, Columbia County		Continue implementing source and wellhead protection plans (cities) to maintain drinking water quality. Protect critical aquifer recharge areas.	Ongoing	Medium	ACTIVE
Middle Touchet Implementation Area	11-2.9	Wellhead capture zones in Dayton, Prescott, Waitsburg, and Coppei springs	City of Dayton, City of Prescott, City of Waitsburg, Walla Walla County, Columbia County		Continue implementing source and wellhead protection plans (cities) to maintain drinking water quality. Protect critical aquifer recharge areas.	Ongoing	Medium	ACTIVE
Mill Creek Implementation Area	11-3.1	City of Walla Walla	City of Walla Walla	Hal Thomas	Work with City of Walla Walla and State and Federal agencies to determine flows available for use in irrigation.	By 2010	Medium	NO INFO

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Mill Creek Implementation Area	11-3.10	Entire Implementation Area	WWCCD, WSU Cooperative Extension		Work with landowners to manage impact on habitat from livestock through use of CREP and BMPs.	Ongoing	Low	ACTIVE
Mill Creek Implementation Area	11-3.11	Walla Walla Community College	WWCCD	Jerry Anhorn	Remove Walla Walla Community College pond supplied by Titus Creek, and evaluates other ponds in the floodplain, and manage to reduce	By 2015	Medium	ACTIVE
Mill Creek Implementation Area	11-3.12	Bennington Lake Diversion	USACE	ask Glen or Dave K (is this part of 1135 process?)	Modify fish ladder and screen system of dam to improve fish passage conditions.	By 2015	High	NO INFO
Mill Creek Implementation Area	11-3.13	Titus Creek	WDFW and Ecology		Based upon Action 3 above, implement preferred Titus Creek improvement plan.	By 2010	Medium	PENDING
Mill Creek Implementation Area	11-3.14	Upper Mill Creek	USFS, City of Walla Walla		Continue to periodically reevaluate the feasibility of a hazardous fuels reduction project in Mill Creek and consider possible fire mitigation such as the establishment of "buffer zones"	By 2007	Medium	COMPLETE
Mill Creek Implementation Area	11-3.15	Titus Creek	WDFW		Collect information regarding flows, water temperature, fish usage and habitat conditions for input into future management.	By 2007	Low	ACTIVE
Mill Creek Implementation Area	11-3.16	Bennington Lake diversion	USACE	Dave Karl Rick Jones	Improve fish counting system at diversion	By 2008	Medium	ACTIVE
Mill Creek Implementation Area	11-3.2	Titus Creek	WWCCD	Jerry Anhorn	Identify ways to maintain flows in lower Titus Creek during winter and spring months (October to April).	By 2010	Low	TABLED
Mill Creek Implementation Area	11-3.21	Mill Creek Headwaters	USFS and City of Walla Walla	Hal Thomas	Continue to maintain restricted access to Mill Creek headwaters.	Ongoing	Medium	ACTIVE

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Mill Creek Implementation Area	11-3.22	Kooskooskie Dam	City of Walla Walla	Hal Thomas	Maintain regulation of FERC target flows at Kooskooskie.	Ongoing	Low (annual cost)	ACTIVE
Mill Creek Implementation Area	11-3.24	IA upper elevations	WDFW, WWCCD	Dave Karl Rick Jones	Work with necessary government agencies to develop plan which allows landowners to take pro-active measures to prevent catastrophic events (landslides, streambank erosion, loss of	By 2015	High	Pending
Mill Creek Implementation Area	11-3.25	Mill Creek (Phase 1: Kooskooskie to Blue Creek, Phase 2: Blue Creek to Bennington, future phases TBD)	WWCCD	Rick Jones	Conduct reach by reach fluvial geomorphology study to develop stream function restoration plan.	By 2008	Low	ACTIVE
Mill Creek Implementation Area	11-3.26	Bennington Lake	USACE	Chris Hyland	Explore potential to use Bennington Lake as storage reservoir by capturing tail end of spring flows after flood potential has diminished.	By 2015	Medium	NO INFO
Mill Creek Implementation Area	11-3.3	Titus Creek	WWCCD	Ask Jerry (cidmp/wmi)	Organize necessary agencies/public parties and make determination regarding status and future of Titus Creek: Water supply, habitat and water quality.	By 2007	Low	NO INFO
Mill Creek Implementation Area	11-3.4	Throughout IA	WWCCD	Rick Jones	Improve irrigation efficiencies and upgrade diversions where needed.	By 2010	Medium	Pending
Mill Creek Implementation Area	11-3.7	Pump intakes identified by WWCCD, Titus Creek diversions,	WWCCD	Rick Jones	Work through WWCCD to identify and install fish compliant screens for all diversions and pump intakes.	By 2006	Medium	ACTIVE
Mill Creek Implementation Area	11-3.8	Kooskooskie Dam	Tri-State Steelheaders		Removal of Kooskooskie Dam.	By 2006 (In progress)	Medium	COMPLETE

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Mill Creek Implementation Area	11-3.9	Entire stretch of Mill Creek with emphasis from Seven-Mile Road to Kooskooskie, also on Blue Creek and WWCC campus	WWCCD	Rick Jones	Enhance riparian areas and increase buffer widths through programs such as CREP and other measures. Implement CRP and direct seeding for the improvement of water quality and habitat.	By 2015	Medium	ACTIVE
Walla Walla /College Place Implementation Area	11-4.1	Mill Creek and eastern portion of City	City of Walla Walla, City of College Place	Hal Thomas	Identify potential aquifers, test and where feasible expand ASR program to increase underground storage of Mill Creek water to improve low summer flow conditions and meet peak City	Turbidity reduction by 2010 ³	High	NO INFO
Walla Walla /College Place Implementation Area	11-4.10	Cottonwood Creek	City of Walla Walla	Mike Bireley, ask about Yellowhawk Pilot	Expand city water delivery to residences along Cottonwood Creek, if feasible and reduce out of stream diversions.	By 2020	Low	Pending
Walla Walla /College Place Implementation Area	11-4.11	City of Walla Walla Service Area	City of Walla Walla	Hal Thomas	Implement DOH-compliant water conservation program that includes: leak detection/pipe replacement (and other measures to get unaccounted for water at or below 10%); public education, technical assistance, flat or inclining rates structure, large-user audits, incentives to reduce water use, and other elements as defined in individual water system plans.	Ongoing	Varies (Low to High on annual basis)	ACTIVE

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Walla Walla /College Place Implementation Area	11-4.16	City of College Place, Water Districts Service Areas	City of Walla Walla, City of College Place, Water Districts	Hal Thomas	Implement DOH-compliant water conservation program that includes: leak detection/pipe replacement (and other measures to get unaccounted for water at or below 10%); public education, technical assistance, flat or inclining rates structure, large-user audits, incentives to reduce water use, and other elements as defined in individual water system plans.	Ongoing	Varies (Low to High on annual basis)	ACTIVE
Walla Walla /College Place Implementation Area	11-4.12	TBD	Walla Walla County, USACE/CTUIR, Irrigation Districts, Walla Walla Watershed Alliance		Identify potential shallow aquifer recharge project areas for testing and establishing long-term recharge operations that use winter and spring flows from streams to enhance summer stream and spring flows in water bodies within the IA.	Identify by 2007 Implement by 2008	High	NO INFO
Walla Walla /College Place Implementation Area	11-4.13	Mouth of Yellowhawk, and Cottonwood Creek	Ecology	Mimi Waiwright	Develop flow enhancement target for Yellowhawk (near-term) and Mill Creek (long-term) based upon potential operational and structural actions outlined in the instream flow strategy.	YH – 2007 MC - 2015	Low	ACTIVE
Walla Walla /College Place Implementation Area	11-4.14	City of Walla Walla	City of Walla Walla	Hal Thomas	Explore feasibility and funding sources for City to build turbidity reduction system for its municipal supply to improve reliability and ability to increase ASR.	By 2007	Medium	ACTIVE
Walla Walla /College Place Implementation Area	11-4.15	Throughout Implementation Area	All public water purveyors, Walla Walla County		Implement various actions suggested 1995 report* including groundwater metering, improving and analyzing groundwater database, groundwater monitoring network, etc. (See pages 4-16, 4-17, 7-4 of report). Avoid mining the basalt aquifer and coordinate ground water management efforts.	Varies based upon action. Some near-term, some long-term, some ongoing	High	NO INFO

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AREA	TABLE/ Action	LOCATION	WP LEAD	PROJECT CONTACT	DESCRIPTION	SCHEDULE	COST LEVEL	STATUS
Walla Walla /College Place Implementation Area	11-4.17	Throughout Implementation Area	All public water purveyors, and Walla Walla County		Update Coordinated Water System plan to identify actions, strategies, roles and responsibilities for improving surface and groundwater monitoring, management and conservation, conjunctive use strategies and updating regional coordination efforts.	By 2007	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area, Walla Walla /College Place Implementation Area	11-4.18 11-5.11	Urban growth areas and rural areas of the IA zoned 10 acres or less in lot size	City of Walla Walla, City of College Place, Walla Walla County	Bob Bower	Conduct the following actions for rural water supply:1) Complete a detailed hydro-geologic assessment and develop groundwater management strategy 2): Implement regional groundwater monitoring program to characterize water use trends and impacts; and 3) Establish water budget for the Walla Walla/College Place fringe residential areas (defined as lots 10 acres or less in size). See Section 6 of the Instream Flow strategy for additional information.	By 2010	Medium	ACTIVE
Walla Walla /College Place Implementation Area	11-4.19	Cities of Walla Walla and College Place	City of Walla Walla, City of College Place	Hal Thomas	Manage stormwater to enhance shallow aquifer recharge, where possible (see Action 22 below).	Projects defined by 2007 and implementation ongoing after 2007	High	ACTIVE
Walla Walla /College Place Implementation Area	11-4.2	Mill Creek	City of Walla Walla	Hal Thomas	Continue to evaluate potential opportunities and develop recommendation for using City of Walla Walla return flows to improve temperature and flow conditions on Mill Creek.	By 2010	Low	NO INFO

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Walla Walla /College Place Implementation Area	11-4.20	City of College Place	City of College Place	kathy Bowman	Per City's water system plan, secure additional water rights for meeting growth demands within next 20 years and beyond. Coordinate regionally on basalt groundwater management.	By 2020	High	NO INFO
Walla Walla /College Place Implementation Area	11-4.21	Cities of Walla Walla/College Place	City of Walla Walla, City of College Place	Hal Thomas	Characterize stormwater impacts to water quality. Develop storm water management plans (regulations and projects) consistent with NPDES Phase II requirements.	By 2007 Implement by 2020	High	ACTIVE
Walla Walla /College Place Implementation Area	11-4.22	Cities of Walla Walla/College Place	City of Walla Walla, City of College Place	Hal Thomas	Implement stormwater management through increased street sweeping, retention basins, updated development regulations, and other activities to treat potential contaminants, recharge the shallow aquifer and manage peak	Ongoing with updated program by 2007	High	ACTIVE
Walla Walla /College Place Implementation Area	11-4.23	Mill Creek	City of Walla Walla	Frank Nicholson Hal Thomas	Manage City of Walla Walla return flows to improve water quality conditions: temperature, turbidity and nitrogen, while maintaining viability of City drinking water treatment system.			ACTIVE
Walla Walla /College Place Implementation Area	11-4.24	City of Walla Walla. Mill Creek flood control channel	City of Walla Walla, Walla Walla County, and USACE	Travis Burns	Evaluate feasibility (USACE Section 1135) of modifying Mill Creek flood control channel to include low flow channel, adequate water supply, subsurface flood control system, or	By 2010	High	ACTIVE
Walla Walla /College Place Implementation Area	11-4.25	City of Walla Walla/Mill Creek flood control channel	USACE	Chris Hyland	Develop plans for and test feasibility of low flow/fish passage channel on a selected stretch of Mill Creek levee section.	By 2015	High	ACTIVE
Walla Walla /College Place Implementation Area	11-4.26	All Urban Areas	WWCCD, and Walla Walla Backyard Stream Team		Implement an urban CREP and conservation easement program on all small streams within urbanized areas to provide for greater shading, cover, and sediment control.	By 2008	Low	ACTIVE

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Walla Walla /College Place Implementation Area	11-4.27	Garrison Creek	WWCCD		Screen off migratory fish access to Garrison Creek.	By 2008	Medium	ACTIVE
Walla Walla /College Place Implementation Area	11-4.28	Gose Street grade control structure	CTUIR		Design upgrade to Gose street grade control structure to improve fish passage; determine whether cost is worth implementing in the near-term.	By 2006	Design – Low Construct – Medium	COMPLETE
Walla Walla /College Place Implementation Area	11-4.29	Yellowhawk	WDFW and WWCCD	Rick Jones Dave Karl	Installation of artificial structures to improve instream habitat conditions: step pools, LWD, root wads, rock piles, etc. to enhance spawning and rearing habitat conditions.	By 2010	High	Pending
Walla Walla /College Place Implementation Area	11-4.3	Blalock Irrigation District #3	WWCCD	Rick Jones	Improve irrigation water conveyance efficiencies of Blalock District #3 through replacement of leaking pipes as needed.	By 2010	High	TABLED
Walla Walla /College Place Implementation Area	11-4.30	Yellowhawk Creek	Ecology	Mimi Waiwright	Develop flow management strategy in coordination with USACE and WDFW to maintain or create flushing flows along Yellowhawk with to prevent sediment accumulation and improve habitat conditions, and to ensure adequate passage at different flow levels.	By 2010	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.22	Lower Touchet, Lower Walla Walla and Lower Dry Creek	Ecology	Mimi Waiwright	Develop New Appropriation Flow recommendations for Touchet at MP 14; Walla Walla at 5a (summer months), 5b and 5c; and Dry Creek at MP 13, and Yellowhawk at MP 3b (depending upon available funding and gauging data availability).	By 2015	Medium	TABLED

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Walla Walla /College Place Implementation Area	11-4.33	Mouth of Yellowhawk	Ecology	Mimi Waiwright	Develop New Appropriation Flow recommendations for Touchet at MP 14; Walla Walla at 5a (summer months), 5b and 5c; and Dry Creek at MP 13, and Yellowhawk at MP 3b (depending upon available funding and gauging data availability).	By 2015	Medium	TABLED
Walla Walla /College Place Implementation Area	11-4.35	Implementation Area, with near-term emphasis on Yellowhawk	Walla Walla County, City of Walla Walla, City of College Place, WWCCD, Kooskooskie Commons		Establish local region public outreach program to provide education of urban, suburban and fringe rural households regarding riparian enhancement, water conservation and improving water quality.	2006	Low (Annual cost)	ACTIVE
Walla Walla /College Place Implementation Area	11-4.36	Mill Creek and Yellowhawk	WDFW	Dave Karl Rick Jones	Collect information regarding flows, water temperature, fish usage and habitat conditions.	By 2008	Medium	ACTIVE
Walla Walla /College Place Implementation Area	11-4.4	Stiller Ditch intake	WWCCD	Rick Jones	Improve Stiller Ditch intake through completion of improvements suggested in 1999 Montgomery Watson (MW) study.	By 2006	Medium	ACTIVE
Walla Walla /College Place Implementation Area	11-4.5	Rec. Fields (Schulke) Ditch	WWCCD	Rick Jones	Install fish screen on Rec. Fields Ditch. Evaluate opportunities to modify diversion to improve fish passage.	By 2007	Medium	TABLED
Walla Walla /College Place Implementation Area	11-4.6	Bossini Ditch	WWCCD	Rick Jones	Install fish screen on Driving Range Ditch	Complete	N/A	COMPLETE
Walla Walla /College Place Implementation Area	11-4.7	Jones Ditch	WWCCD	Rick Jones	Improve Jones Ditch through completion of improvements suggested in 1999 MW study	By 2010	Medium	Pending
Walla Walla /College Place Implementation Area	11-4.8	Other small ditches on Yellowhawk and Garrison	WWCCD	Mike Bireley	Identify and implement opportunities to improve irrigation efficiency. Explore option of water right transfers, converting to wells, or use of city water to increase instream flow.	By 2015	Medium	ACTIVE

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Walla Walla /College Place Implementation Area	11-4.9	All pump/gravity diversions in implementation area	WWCCD	Rick Jones	Screen and meter all pump/gravity diversions.	By 2020	High	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.1	West Side/East Side Ditch (Touchet mainstem)	Ditch Board and WWCCD	Rick Jones	Design and upgrade Hofer diversion to improve fish passage (for both West Side and East Side ditches).	By 2007	High	COMPLETE
Lower Walla Walla / Touchet Implementation Area	11-5.10	Locher Rd. gravel pit, Hall-Wentland Site, HBDIC test site, other sites to be determined	Walla Walla County, Walla Walla Basin Watershed Council, USACE/CTUIR		Test potential shallow aquifer recharge project areas and establish long-term recharge operations that use winter and spring flows from streams to enhance summer stream and spring flows in water bodies within the IA. Identify new sites for additional recharge.	Complete testing by 2007 Implement by 2008	High	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.13	Pine Creek in Oregon	USACE/CTUIR		Support new storage on Pine Creek, if project feasible.	2015	High	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.14	Drainage facilities on roads in Prescott, Touchet and Lowden, and rural roads	City of Prescott, Walla Walla County, and WSDOT	County public works got a "Stormwater" permit	Manage stormwater to improve treatment and increase groundwater infiltration/shallow aquifer recharge.	Mid-term	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.17	Lower Walla Walla /Lower Touchet	WWCCD	Rick did Hofer action1 , might be working on 5	Remove fish passage barriers as described in Actions 1 and 5 above.	By 2010	Medium	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.18	Entire IA	WWCCD	Rick Jones	Conduct detailed irrigation efficiency opportunities study and water balances to develop updated target enhancement flows as measured at MP 14 (Touchet); MPs 5a, 5b and 5c (Walla Walla) and	Study by 2010 Implement by 2020	Medium	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.2	West Side/East Side Ditch (Touchet mainstem)	Ditch Board and WWCCD	Rick Jones	Replace earth-lined open ditches with closed-conduit gravity flow piping where economically feasible to do so.	By 2012	High	ACTIVE

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Lower Walla Walla / Touchet Implementation Area	11-5.21	Little Walla Walla system and spring-fed streams	TBD	Rick worked on Doan Ck	Protect and restore channels and flows for Stone, Doan, MacAvoy, Little Walla Walla, Mud and other streams within the IA. Maintain flows in East Little Walla Walla and screen diversions.	By 2015	High	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.27	Dry Creek	WWCCD	Rick Jones	Enhance understanding of lower Dry Creek hydrology, stream and riparian conditions, and fish usage to determine appropriate flow enhancement and habitat enhancement goals and strategies.	Mid-term	Low	NO INFO
Lower Walla Walla / Touchet Implementation Area	11-5.3	Garden City Ditch (Walla Walla mainstem)	Ditch Board and WWCCD	Rick Jones	Replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2009	High	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.4	Old Lowden Ditch (Walla Walla mainstem)	Walla Walla Watershed Alliance	Cathy Schaeffer	Replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2009	High	COMPLETE
Lower Walla Walla / Touchet Implementation Area	11-5.5	Bergevin/Williams, Old Lowden and Byerley Diversions	Ditch Board and WWCCD	Rick Jones	Explore feasibility of consolidating the diversions and upgrade screen(s).	By 2008	Medium	ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.6	Bergevin/Williams	Ditch Board and WWCCD	Rick Jones	Replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2010	High	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.7	Lowden Irrigation District No. 2 Canal (Walla Walla mainstem)	Ditch Board and WWCCD	Rick Jones	Replace earth-lined open ditches with closed-conduit gravity flow piping.	By 2010	High	Pending
Lower Walla Walla / Touchet Implementation Area	11-5.8	Gardena Farms Irrigation District system	Gardena Farms Irrigation District	Stuart Durfee	Replace earth-lined open ditches on the north and south laterals, with closed-conduit piping. Line upper canal from diversion to siphon. Install re-	By 2020		ACTIVE
Lower Walla Walla / Touchet Implementation Area	11-5.9	Individual irrigators (throughout IA)	WWCCD	Rick Jones	Improve irrigation efficiencies and upgrade diversions where needed.	By 2025	High	Pending