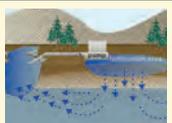


# Yakima Basin Integrated Water Resource Management Plan – Three-Year Funding Request

Project	Description More information: <a href="http://www.ecy.wa.gov/programs/wr/cwp/YBIP.html">http://www.ecy.wa.gov/programs/wr/cwp/YBIP.html</a>	Funding (Millions)			Funding (3 Years)	Total Cost (Rounded)
		2014	2015	2016		
 Tribes/Mainstem Habitat Enhancement	The fish habitat enhancement program will address mainstem floodplain and tributary habitat restoration priorities through habitat enhancement, flow restoration, fish barrier removal, and screening diversions. Actions will improved spawning, incubation, rearing, and migration conditions for all salmonid species; implement key strategies described in the Yakima Sub-basin Plan; and complete most of the actions described in the Yakima Steelhead Recovery Plan. Funding would be used to construct Habitat Enhancement Projects identified as top priorities by the Habitat Subcommittee to address critical tributary habitat areas in the basin. Projects are being chosen in cooperation with NOAA Fisheries, USFWS, and the Salmon Recovery Board director. Habitat enhancement is authorized under YRBWEP Title XII.	\$5	\$6	\$7	\$18	\$480
 Watershed Lands Acquisition	Acquisition of critical habitat is a keystone to ecological restoration of the Yakima River Basin. Funding would be used to secure an agreement for purchase of a large tract of property in the Teanaway drainage and to purchase forest land in the Naches watershed. This early action item is being funded by the State of Washington. Acquisition and effective management of watershed land will improve water supply and water quality and protect sources of cold water habitat needed for fish spawning and rearing.	\$3	\$3	\$3	\$9	\$100
 Cle Elum Fish Passage	The project will open approximately 29.4 miles of stream habitat to salmon and steelhead. Funding would be used to initiate hydraulic modeling, cultural surveys, and design data collection. NEPA has been completed.	\$5	\$6	\$7	\$18	\$90
 Box Canyon Creek Fish Passage	Initial funding would be used to complete design for fish passage at Box Canyon Creek, a Kachess Reservoir tributary that serves as critical habitat for bull trout, an Endangered Species Act (ESA) threatened species.	\$0	\$1	\$0	\$1	\$1
 Keechelus, Kachess, Tieton Fish Passage	Initial funding will be used to design upstream and downstream fish passage at these existing reservoirs. Fish passage will open approximately 53 miles of stream habitat to salmon and steelhead.	\$1	\$1	\$1	\$3	\$312
 Clear Lake Fish Passage	Funding would be used to complete feasibility level designs and site specific environmental compliance to improve passage for bull trout at Clear Lake Dam.					
 Keechelus to Kachess Conveyance	The project will convey water from Keechelus Reservoir to Kachess Reservoir, providing additional storage in Kachess reservoir to serve downstream needs and improving instream flow conditions in the upper Yakima River. Funding would be used to initiate site specific environmental compliance, perform preliminary geologic investigations, collect design data, and perform feasibility level designs.	\$1	\$2	\$2	\$5	\$200



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		2014	2015	2016		
 Subordinate Power Diversions	Funding would be used to quantify impacts to fisheries downstream of the Roza Dam diversion on the Yakima River and to identify the degree of subordination that would be appropriate to meet fish and power needs at this location.					
 Cle Elum Pool Raise	Spillway gates will be modified to allow Cle Elum Reservoir to be raised three feet, providing an additional 14,600 ac-ft of water that would be available for instream flow support in the Cle Elum and Yakima Rivers and to meet irrigation demand. A three-foot raise of the Cle Elum pool is authorized as part of YRBWEP Title XII legislation. Funding would be used to complete site specific environmental compliance and to initiate design data collection and final designs.	\$4	\$7	\$7	\$18	18
 Kachess Inactive Storage	The outlet at the existing Kachess Reservoir will be lowered to allow for an additional 80 feet of reservoir level draw down, providing access to another 200,000 ac-ft of water for drought relief. Funding would be used to initiate site specific environmental compliance, perform preliminary geologic investigations, collect design data, and perform feasibility level designs for a tunnel or pumping plant to tap 200,000 acre-feet of inactive storage in the reservoir.	\$15	\$20	\$20	\$55	\$280
 Wymer Reservoir Assessment	Funding would be used to initiate site specific environmental compliance, perform preliminary geologic investigations, collect design data, and perform feasibility level designs associated with developing a 162,500 ac-ft reservoir at Wymer. Water from the enlarged reservoir would be used to improve both instream flows and out-of-stream water supplies in the basin.	\$1	\$2	\$4	\$7	\$1,430
 Bumping Lake Enlargement	Funding would be used to initiate site specific environmental compliance, perform preliminary geologic investigations, collect design data, and perform feasibility level designs associated with creation of an additional 156,000 ac-ft of new water storage at Bumping Lake through construction of a new dam downstream of the current dam. Water from the enlarged reservoir would be used to improve both instream flows and out-of-stream water supplies in the basin.	\$1	\$2	\$4	\$7	\$571
 Groundwater Infiltration	Late-winter and early-spring flow will be diverted to ponds, canals, and spreading areas and allowed to infiltrate into the aquifer to be stored for later use to improve flow conditions and meet irrigation demand. Funding would be used to perform site specific environmental compliance, reconnaissance field investigations and feasibility level designs for a pilot groundwater infiltration and storage project in the Kittitas Valley. The pilot project is expected to be the basis for a future full scale project.	\$1	\$1	\$2	\$4	\$110
 Agricultural Conservation	Agricultural water conservation measures (piping and automating canals, on-farm water conservation improvements, etc.) will conserve approximately 170,000 ac-ft of water in good water years, substantially less in drought years.	\$5	\$5	\$5	\$15	\$430
 Municipal/Domestic Conservation	A multi-stakeholder advisory committee of municipal and domestic water conservation (including local and environmental stakeholders) will be convened to organize outreach to local elected officials and provide liaison with Reclamation, Ecology, and the Washington State Department of Health. (implementing leak control – promoting low impact landscaping and efficient indoor water use	\$0	\$0.1	\$0.1	\$0.2	Program
 Market Reallocation	Stage 1 of the program will continue existing water marketing and banking activities and reduce current barriers to water transfers. Stage 2 will focus on facilitating water transfers between irrigation districts.	\$0.2	\$0.2	\$0.2	\$0.6	Program