Floodplains by Design

• REDUCING RISK, RESTORING RIVERS •

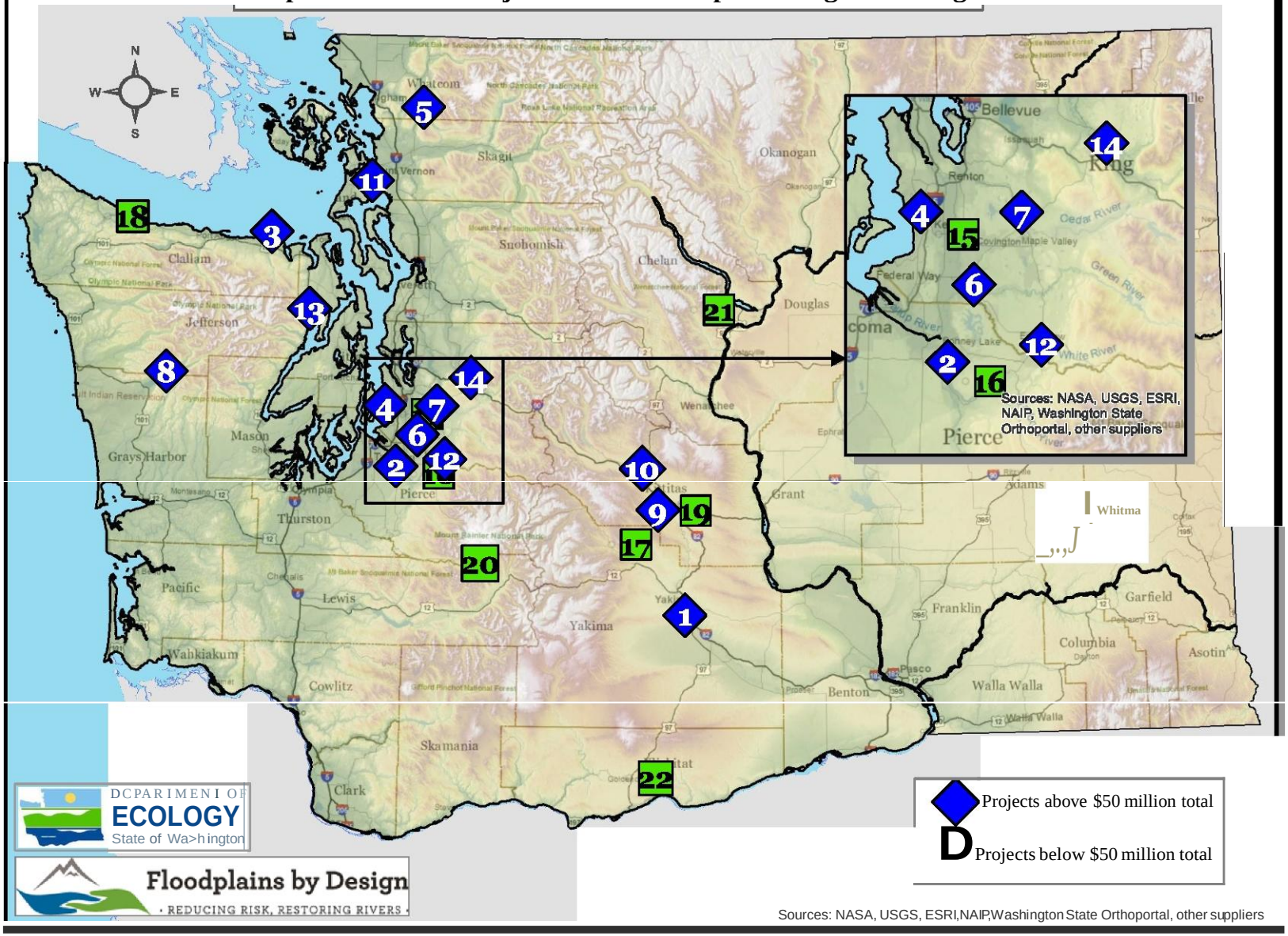
DEPARTMENT OF ECOLOGY
State of Washington

Proposed Ranked List of Projects for 2015-17 Capital Budget Funding

Ecology Publication #: 14-06-033

October 2014

Proposed Ranked Projects for 2015-17 Capital Budget Funding



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Focus on Proposed Projects for FY 15-17 Floodplains by Design Funding

Budget Request
The Department of Ecology is requesting continued funding at the $50 million level for Floodplains by Design in the FY 2015-17 State budget. This program supports projects across the state that address vital flood risk reduction and habitat improvement in our floodplains.

This is a list of identified and ranked projects to support Ecology's $50 million budget request for Floodplain by Design grants for the 2015-17 Biennial Budget. Funding will depend on legislative approval of the budget request, which will be determined in the spring of 2015. Some projects were submitted to multiple state funding programs. If listed projects are funded through another source or if projects are withdrawn, the cutoff line will be adjusted accordingly to fund additional project(s) on the ranked list depending on the amount of funding provided by the Legislature.

Background
In 2013 the Department of Ecology and its partners, the Puget Sound Partnership and The Nature Conservancy, were successful in securing legislative funding through the Floodplain by Design effort. Ecology was given $33 million to advance integrated floodplain projects in Puget Sound and an additional $11 million for a statewide floodplain management and control competitive grant program.

For the 2015-2017 biennium the Department of Ecology conducted a competitive process to create a ranked project list, supporting the agency's Floodplains by Design budget proposal to continue funding at $50 million. In May 2014 Ecology solicited pre-applications for the FY 2015-17 FbD program. Of the 71 submittals, 36 projects were invited to submit full grant applications. The applications were submitted September 8. A team of technical and policy experts from state and federal agencies reviewed the 30 submitted applications and recommend the following projects for funding.

Below is the ranked list of projects that supports Ecology's request for continued funding at the $50 million level in FY 2015-17. The $50 million cutoff line is identified. All the projects on this list are considered to be highly qualified for this funding program.

MORE INFORMATION

Floodplains by Design (FbD) is a partnership led by Ecology, Puget Sound Partnership and The Nature Conservancy to coordinate investment in the management of the lands along Washington's major rivers, home to a host of our region's most valuable assets.

There are two goals of the program:

1. Promote the reduction of flood risks and floodplain ecosystem recovery while maintaining or improving agricultural production, water quality, and open space/recreation.
2. Improve the coordination of public funding for floodplain efforts.

For more information on the Floodplains by Design partnership see www.floodplainsbydesign.org

Contact

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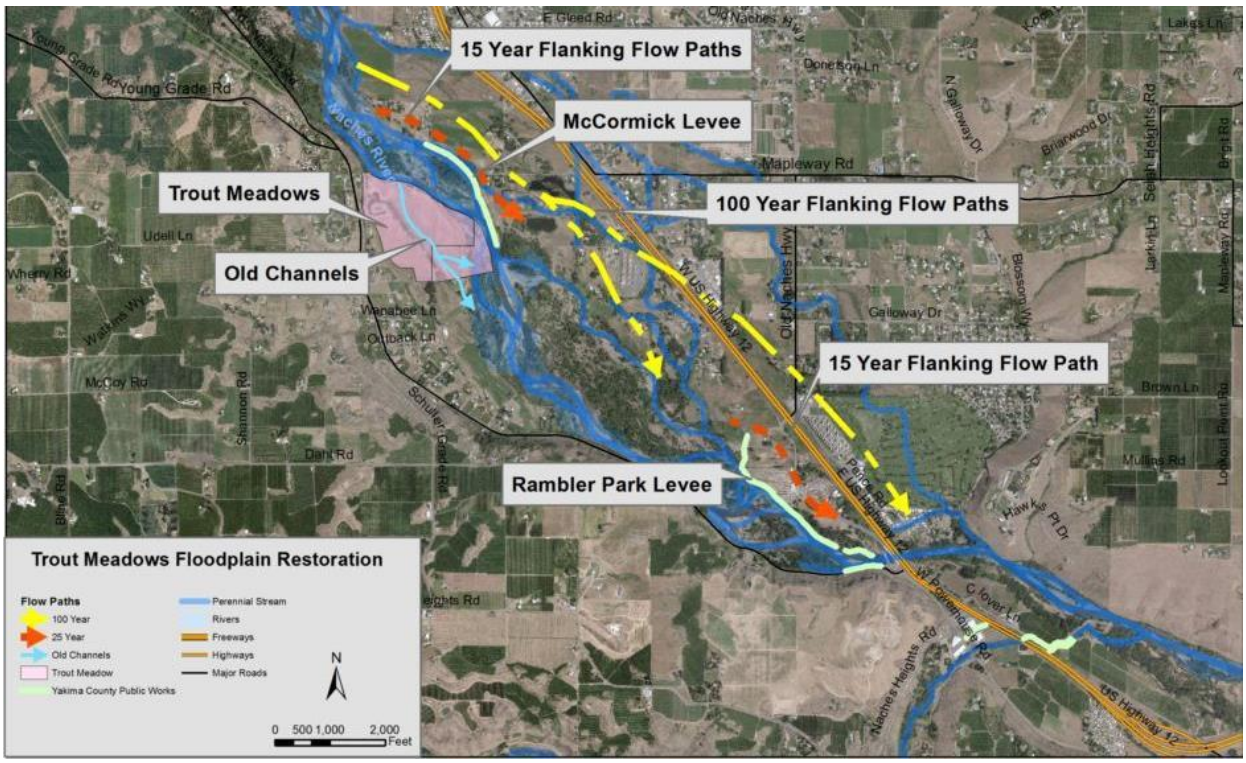
Ecology FY 2015-17 Proposed Floodplain by Design Project List

Rank	Project Description	Grant Request	Local Match	Project Total	Legis Dist.
1	Yakima FP Management Program: Rambler's Park Phase IV and Trout Meadows Phase II (Yakima County)	$2,358,000	$592,000	$2,950,000	15
2	Puyallup Watershed Floodplain Reconnections - Tier 1 (Pierce County)	$10,240,000	$2,544,250	$12,784,250	31
3	Lower Dungeness River Floodplain Restoration (Clallam County)	$9,501,600	$2,375,400	$11,877,000	24
4	Boeing Levee/Russell Road Improvements & Floodplain Restoration (King County Flood & Control District)	$4,900,000	$24,400,000	$29,300,000	33
5	South Fork Nooksack - Flood, Fish and Farm Conservation (Whatcom Land Trust)	$3,216,958	$811,090	$4,028,048	42
6	Middle Green River/Porter Gateway Protection and Restoration (King County)	$3,648,926	$1,737,373	$5,386,299	31
7	Cedar River Corridor Plan Implementation (King County)	$5,000,000	$3,000,000	$8,000,000	5
8	Sustainable Management of the Upper Quinault River Floodplain (Quinault Indian Nation)	$560,000	$140,000	$700,000	24
9	Manastash Creek Corridor Plan Phase II (Kittitas County Flood Control District)	$1,460,000	$565,680	$2,025,680	13
10	Yakima and Teanaway Reach Scale Flood Hazard Management Plans (Kittitas County Flood Control District)	$1,375,000	$404,000	$1,779,000	13
11	Skagit Delta Farm, Fish & Flood Initiative - Phase 2: Preliminary Design and Feasibility (The Nature Conservancy)	$397,075	$99,275	$496,350	10
12	Boise Creek Habitat Restoration and Flood Attenuation Project (King County)	$3,507,894	$957,000	$4,464,894	31
13	Lower Big Quilcene Preliminary Design: A Community Approach to Restoration (Jefferson County)	$908,616	$227,154	$1,135,770	24
14a	Snoqualmie Riverfront Project (City of Snoqualmie)	$1,062,945	$212,589	$1,275,534	5

	FbD Staffing for Grant Management (assumes $50 million in grants. If appropriation is lower, staffing costs will be adjusted proportionately).	$1,662,986		$1,662,986	State-wide
	Cultural Resource Protection to fund unanticipated expenses	$200,000		$200,000	State-wide
	Qualified project proposals below $50,000,000 funding line				
14b	Snoqualmie Riverfront Project – Remainder of project	$457,575	$91,515	$549,090	5
15	Downey Farmstead Restoration (City of Kent)	$4,735,940	$1,183,988	$5,919,928	33
16	Puyallup Watershed Floodplain Reconnections - Tier 2 (Pierce County)	$10,600,000	$2,120,000	$12,720,000	31
17	Yakima River Nine Mile 30 Levee Removal (Yakima County)	$480,000	$120,000	$600,000	14
18	Pysht River Floodplain Restoration and Flood Reduction (Lower Elwha Tribe)	$1,830,000	$442,000	$2,272,000	24
19	Anderson Property - Yakima River Floodplain Restoration (Trout Unlimited)	$151,164	$43,000	$194,164	13
20	Upper Nisqually Community Channel Migration Protection Project (Nisqually Land Trust)	$140,000	$35,000	$175,000	2,20
21	Entiat River Stormy Floodplain Reconnection Project (Chelan County)	$500,000	$590,000	$1,090,000	12
22	Lower Klickitat Floodplain Enhancement Assessment (Central Klickitat Conservation District)	$180,000	$45,000	$225,000	14

1. Yakima Floodplain Management Program: Rambler's Park Phase 4 and Trout Meadows Phase 2

Proponent:	Yakima County	**County:**	Yakima	**Requested Amount:**	$2,358,000
Legislative District:	15	**River:**	Naches	**Match:**	$592,000



Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration

Project Summary: The Rambler's Park and Trout Meadow projects are part of a broadly supported vision and strategy to develop and implement a package of floodplain management projects geared at improved ecosystem function, salmon recovery and increased flood protection for the Naches River. The work at Rambler's Park will be the final phase of a project aimed at reducing flood risk and restoring fish passage and habitat around Nelson Dam. It will include a new fish-friendly boulder bed overflow channel around Nelson Dam while ensuring two bridges are protected. The Trout Meadows project is also the second and final phase of work to reconnect and restore floodplain habitat while reducing risk to the McCormick Levee which has been breached at low level flows. The project will reduce pressure on McCormick levee, reduce flood heights in the immediate vicinity, and reconnect approximately 60 acres of quality floodplain habitat.

2. Puyallup Watershed Floodplain Reconnections—Tier 1

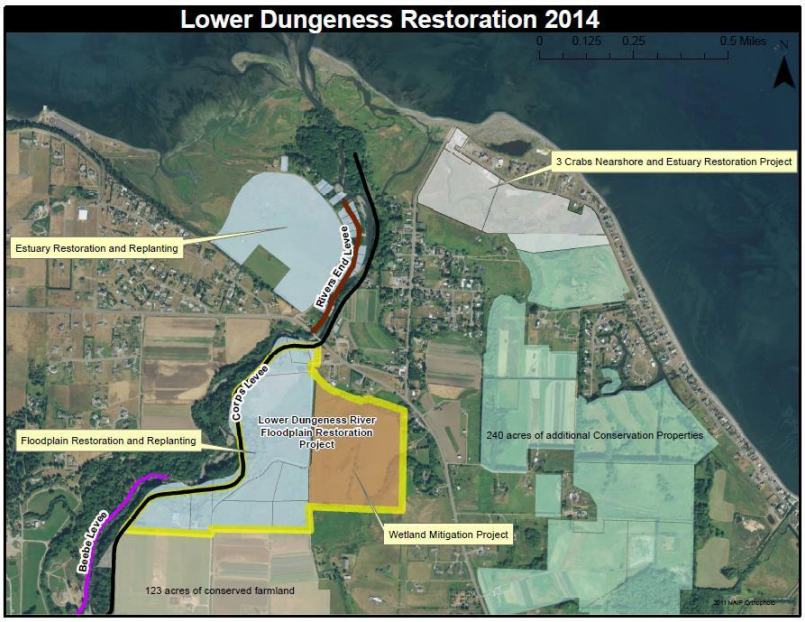
Proponent:	Pierce County	**County:**	Pierce	**Requested Amount:**	$10,240,000
Legislative District:	31	**River:**	Puyallup	**Match:**	$2,544,250

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: The Puyallup River Watershed Floodplain Reconnections plan is a broadly supported multiyear strategy that serves as a model for the scale and level of effort necessary to achieve the Floodplains by Design vision. Tier I acquisition and construction projects include: the design and construction of Puyallup River floodplain protection such as engineered log jams or flood fences at Kapowsin Creek; land acquisition for Orville Road Channel Migration Protection in preparation for later phases; land acquisition and structure removal in the Neadham Road flood hazard area in preparation for future levee setback; and land acquisition and structure removal in the Clear Creek/Lower Puyallup River floodplain, in preparation for later phases which will reconnect over 500 acres of floodplain that have been subject to recent flooding – dramatically reducing flood risk while restoring critical tidal marsh habitat.

3. Lower Dungeness River Floodplain Restoration

Proponent:	Clallam County	**County:**	Clallam	**Requested Amount:**	$9,501,600
Legislative District:	24	**River:**	Dungeness	**Match:**	$2,375,400



Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: This project is a key element of the Dungeness River Management Plan to improve flood protection and ecosystem benefits along the Dungeness River while supporting local farms and other interests. This project would continue implementation of this larger floodplain management strategy, including a levee setback and habitat restoration to reconnect 112 acres of floodplain while reducing downstream flood risk.

4. Boeing Levee/Lower Russell Road Improvements and Floodplain Restoration

Proponent:	King County Flood Control District	**County:**	King	**Requested Amount:**	$4,900,000
Legislative District:	33	**River:**	Green	**Match:**	$24,400,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Water Quality Improvement; Public Access and Open Space

Project Summary: This project is focused on meeting the goals of the Lower Green River System Wide Improvement Framework (SWIF). It will raise the existing levee to provide a higher level of protection to existing development and restore floodplain habitat on the right bank of the lower Green River. The project will replace and upgrade the existing levee to provide a higher level of flood risk reduction; restore 60 acres of floodplain; 4,400 feet of riparian buffer (4.6 acres); improve salmon habitat; and improve public access by integrating the new levee, road and reconnected floodplain with existing parks, the Green River Trail and open space.

5. South Fork Nooksack--Flood, Fish, and Farm Conservation Integration

Proponent:	Whatcom Land Trust	**County:**	Whatcom	**Requested Amount:**	$3,216,958
Legislative District:	42	**River:**	Nooksack	**Match:**	$811,090

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: This project supports coordinated public investment to implement floodplain conservation, flood protection improvements and restoration actions on the South Fork Nooksack River. It includes permanent protection of up to 200 acres of floodplain habitat and 200 acres of farmland; improving salmon habitat through the removal of artificial constraints and restoration of log jams; and pre-construction work for future phases of shoreline armoring removal or setback to reduce flood hazard to Acme and other communities. It includes hydraulic modeling, alternatives analysis and engineering design.

6. Middle Green River/Porter Gateway Protection and Restoration

Proponent:	King County	**County:**	King	**Requested Amount:**	$3,648,926
Legislative District:	31	**River:**	Green	**Match:**	$1,737,373

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: The project will protect long-term agricultural uses, reducing flood risks to an existing arterial road and adjacent farmland. It will be the culmination of 15 years of restoration projects along this river reach and will consist of removing the 1,550-foot long Porter Levee; reconstruction of a raised revetment; placement of log structures to deflect river flows away from arterial road and improve habitat; restoration of floodplain forest; and purchase of development rights on 112 acres of farmland.

7. Cedar River Corridor Plan Implementation

Proponent:	King County	**County:**	King	**Requested Amount:**	$5,000,000
Legislative District:	5	**River:**	Cedar	**Match:**	$3,000,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Water Quality Improvement; Public Access and Open Space

Project Summary: This project advances implementation of the long-term Cedar River Corridor Plan to improve ecosystem functions, flood protection, water quality, recreation and other local interests. The project will reduce flood hazard to Kent, Highway 169 and the associated fiber optic line while improving salmon habitat. Project activities include the development of a final design and permitting package for the contiguous Riverbend, Cavanaugh Pond and Herzman Levee Setback and Restoration projects; preparation work at the Riverbend site for future levee setback; and acquisition of up to 15 key properties that are high priority acquisition targets for subsequent floodplain reconnection projects on the lower Cedar River.

8. Sustainable Management of the Upper Quinault River Floodplain

Proponent:	Quinault Indian Nation	**County:**	Jefferson	**Requested Amount:**	$560,000
Legislative District:	24	**River:**	Quinault	**Match:**	$140,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Public Access and Open Space; Agricultural Viability

Project Summary: The project will provide access roads to an economically important part of the Olympic Peninsula. The Upper Quinault River road system provides public access to Olympic National Park, private property and public recreation sites. However, these roads are located in high-risk areas within the channel migration zone and floodplain of the Upper Quinault River. The road system artificially constrains natural channel migration and floodplain processes. Road washouts and emergency repairs have been a chronic, costly problem for decades. This project will assess the issues and develop a plan to improve public safety, restore fish and wildlife habitat and reduce the annual costs to the National Park Service, counties, and state. Alternative locations for existing roads and alternative access to the area will be assessed.

9. Manastash Creek Corridor Plan Phase II

Proponent: Kittitas County Flood Control Zone District	**County:** Kittitas	**Requested Amount:** $1,460,000
Legislative District: 13	**River:** Yakima	**Match:** $565,680

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration

Project Summary: The project will remove existing floodplain structures and ensure permanent protection of critical habitat as identified in the Manastash Creek Corridor Plan. Activities include hydraulic, hydrology & sediment analysis to support implementation of multiple projects identified in the plan; acquisition of three high-risk properties and the purchase of three conservation easements at the confluence of Manastash Creek and the Yakima River; increased public access to the creek; removal of Reed Diversion Dam to improve natural function and habitat conditions.

10. Yakima and Teanaway Reach Scale Flood hazard Management Plans

Proponent: Kittitas County Flood Control Zone District	**County:** Kittitas	**Requested Amount:** $1,375,000
Legislative District: 13	**River:** Yakima, Teenaway	**Match:** $404,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration

Project Summary: Update Kittitas County's Comprehensive Flood Hazard Management Plan by performing smaller assessments within specific areas of the county. The planning process will include landowner and agency involvement in order to develop permit-ready projects when funding becomes available. The Upper Yakima River and Teanaway River (West, Middle and North Forks) have both been previously identified as high priority areas. The project will also analyze protection of the Hanson Ponds, the South Cle Elum Way Bridge and the Teanaway River Bridge.

11. Skagit Delta Farm, Fish, and Flood Initiative—Phase 2

Proponent:	The Nature Conservancy	**County:**	Skagit	**Requested Amount:**	$397,075
Legislative District:	10	**River:**	Skagit	**Match:**	$99,275

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: A ranked suite of projects meeting fish, flood and farm objectives will be identified, along with outreach to landowners. This project continues previously identified work to identify and assess projects that restore fish habitat, and improve flood protection and agricultural viability in the Skagit Delta. Phase 1 was funded by an EPA Puget Sound National Estuary Program grant. Phase 2 will model the complex freshwater/saltwater system in this area to develop a ranked suite of projects based on their ability to meet the multiple objectives. The project includes outreach to landowners to evaluate, measure and assess the costs and benefits for private property owners to participate in salmon recovery and flood risk reduction projects.

12. Boise Creek Habitat Restoration and Flood Attenuation Project

Proponent:	King County	**County:**	King	**Requested Amount:**	$3,507,894
Legislative District:	31	**River:**	White	**Match:**	$957,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: This project will reduce flooding of agricultural lands, improve salmon habitat by implementing the Boise Creek Restoration Plan (part of Puyallup/White River floodplains reconnection effort), and increase capacity of the creek through bridge reconstruction and channel restoration. Boise Creek is one of the most productive salmon streams in the Puyallup River system and is a key to improving salmon production on the White River. Project includes constructing two new bridges to reduce flood risk and increase sediment conveyance; improving drainage on private land; reducing animal access to the creek; expanding the channel capacity of the stream; placing in-stream log structures; revegetating the creek's riparian zone; purchasing development rights on 80 acres of farmland.

13. Lower Big Quilcene Preliminary Design: A Community Approach to Restoration

Proponent:	Jefferson County	**County:**	Jefferson	**Requested Amount:**	$908,616
Legislative District:	24	**River:**	Big Quilcene	**Match:**	$227,154

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Shellfish Viability; Recreational Access; Water Quality Improvements

Project Summary: Develop a preliminary design to achieve integrated floodplain management objectives in the lower reach of the Big Quilcene River by identifying a suite of actions that increase flood protection, improve ecosystem functions and address other community needs and priorities, including shellfish compatibility, recreational access, education of local students about the natural resources of the river and bay, and economic vitality. The project will acquire 1-3 floodplain parcels in the area at highest risk for flooding, including structure demolition and habitat improvements.

14. Snoqualmie Riverfront Project – Phase 1

Proponent:	City of Snoqualmie	**County:**	King	**Requested Amount:**	$1,520,520 ***Funded $1,062,945 above cutoff (A) Funded $457,575 below cutoff (B)***
Legislative District:	5	**River:**	Snoqualmie	**Match:**	$304,104

Primary Objectives: Flood Risk Reduction; Habitat Restoration; Public Access and Open Space; Economic Vitality

Project Summary: This is the first of three phases of the Snoqualmie Riverfront Project, part of a long-standing community effort to address flooding in an area that has the highest number of flood damage claims in Washington State. It will reduce flood risk, improve habitat, create public access and enhance livability and tourism in the city. This phase of implementation includes acquiring 5 high-risk parcels in the designated floodway and removing flood-prone structures; removing invasive plant species and replanting with native vegetation on 8.5 acres; and designing a trail for the south bank of river.

Note: The following projects are below the current proposed funding cutoff line. They may be funded if projects above receive funding from another source or other conditions change.

15. Downey Farmstead Restoration

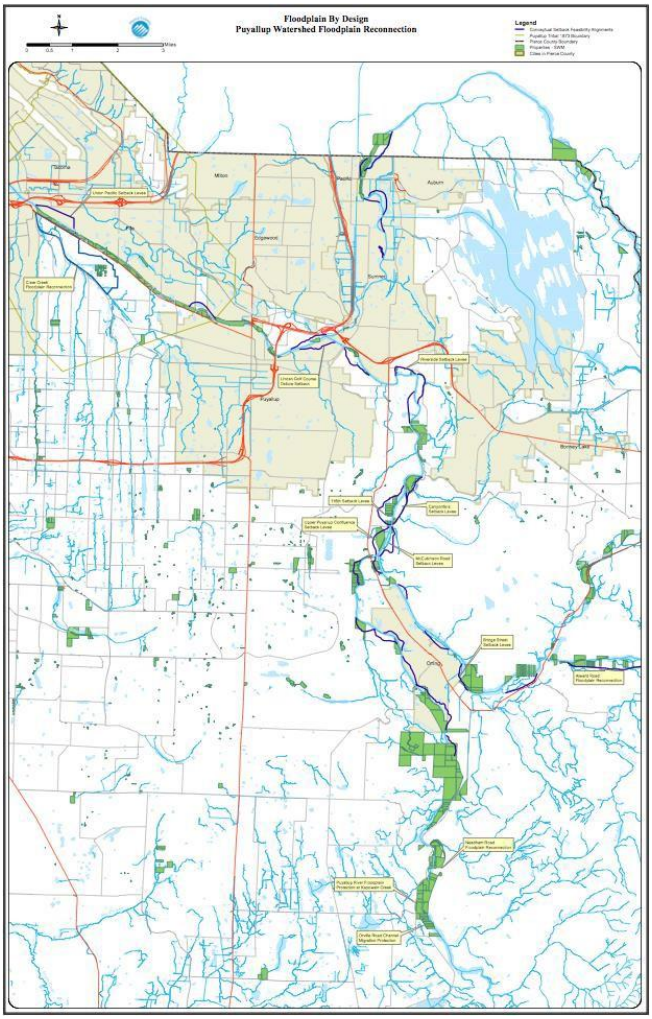
Proponent:	City of Kent	**County:**	King	**Requested Amount:**	$4,735,940
Legislative District:	33	**River:**	Green	**Match:**	$1,183,988

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Water Quality Improvement

Project Summary: This project will restore side channel and wetland habitat, move a farm access road away from the river's edge, and create additional flood storage in a frequently flooded area on the Green River. Habitat restoration will improve conditions for salmon. Frager Road will be relocated away from the river's edge, and existing recreational parking will be relocated west of the project site.

16. Puyallup Watershed Floodplain Reconnections Tier 2

Proponent:	Pierce County	**County:**	Pierce	**Requested Amount:**	$10,600,000
Legislative District:	31	**River:**	Puyallup	**Match:**	$2,120,000



Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: This project would support the Tier 2 components of the Puyallup River Watershed Floodplain Reconnections plan, including property acquisition and structure removal in preparation for the Horse Haven Creek levee setback project; property acquisition and structure removal in preparation for the Clear Creek floodplain reconnection project; and deconstruction and setback of the Needham Road levee. Additional funds would be applied to further top tier acquisition priorities, additional floodplain reconnection implementation, and implementation of agricultural program efforts such as identifying alternative land use strategies and addressing the long-term impacts of seasonal flooding on agricultural lands.

17. Yakima River Nile Mile 30 Levee Removal

Proponent:	Yakima County	**County:**	Yakima	**Requested Amount:**	$480,000
Legislative District:	14	**River:**	Naches	**Match:**	$120,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration

Project Summary: This project is part of Yakima County's long-term efforts to reduce flood risks and recurrent flood damages while restoring ecosystem functions and recovering salmon habitat throughout the Naches River corridor. The project focuses on an island in the river, and includes acquisition of 15 acres of high-risk land; removal of 700 feet of levee; opening up and restoration of existing side channels, floodplains, and high priority habitat; and removal or demolition of the structure on island.

18. Pysht River Floodplain Restoration and Flood Reduction

Proponent:	Lower Elwha Klallam Tribe	**County:**	Clallam	**Requested Amount:**	$1,830,000
Legislative District:	24	**River:**	Pysht	**Match:**	$442,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration

Project Summary: The Pysht River project is a collaboration between the Makah and Lower Elwha Klallam tribes, Washington Department of Transportation, and private citizens who reside along the river to reduce flood hazards to State Highway 112 and nearby houses, and to improve spawning and rearing habitat for native salmon. The project will include reactivating the floodplain by installing engineered log jams, log revetments and flood fencing in a 1.8-mile reach of Pysht River.

19. Anderson Property—Yakima River Floodplain Restoration

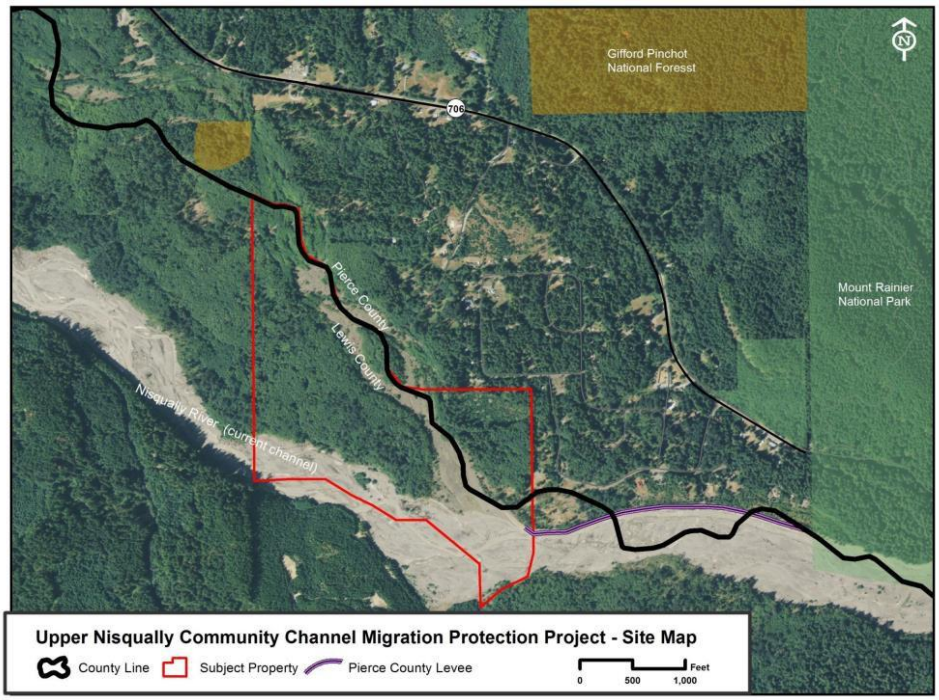
Proponent:	Trout Unlimited	**County:**	Kittitas	**Requested Amount:**	$151,164
Legislative District:	13	**River:**	Yakima	**Match:**	$43,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability

Project Summary: This project will develop a suite of actions that will better balance flood protection, ecosystem improvement efforts and agricultural viability in rural Kittitas County. The project will include assessments of reshaping and rebuilding a 3000-foot levee; removing smaller downstream levees and restoring floodplain and historic side channels; floodplain and riparian forest restoration to about 100 acres of cottonwoods; irrigation ditch removal and piping options; and protecting a farm operation.

20. Upper Nisqually Community Channel Migration Protection Project

Proponent:	Nisqually Land Trust	**County:**	Pierce, Lewis	**Requested Amount:**	$140,000
Legislative District:	2, 20	**River:**	Nisqually	**Match:**	$35,000



Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration

Project Summary: This project will further decades of work by stakeholders in the Nisqually River system to protect and restore habitat while actively keeping new floodplain structures from being developed in harm's way. Specifically, it will acquire two parcels totaling 130 acres of flood-prone land in the channel migration zone of the Nisqually River. The acquisition of these parcels may eliminate the need to do future flood protection efforts in Pierce County and bring flood hazard areas in Lewis County into conservation ownership for habitat and flood storage management. The acquisition of this project is also critical to maintaining the flexibility of the channel migration of the Nisqually River, one of the state's most dynamic and scenic rivers.

21. Entiat River Stormy Floodplain Reconnection Project

Proponent:	Chelan County	**County:**	Chelan	**Requested Amount:**	$500,000
Legislative District:	12	**River:**	Entiat	**Match:**	$590,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Agricultural Viability; Water Quality

Project Summary: This project will improve natural channel and floodplain processes and prevent future flood risks to the Entiat River, a Columbia River tributary, through acquisition of development rights, levee and road removal and habitat restoration. The U.S. Bureau of Reclamation and Bonneville Power Administration are currently funding design for this broadly supported, reach-based project. The Chelan-Douglas Land Trust has secured an option and funding to purchase approximately 100 acres of

adjoining floodplain. Specifically, this project will remove part of the existing levee, access road and associated shoreline armoring; replant 12 acres of floodplain area behind the levee; and install engineered log jams to facilitate lateral channel migration.

22. Lower Klickitat Floodplain Enhancement Assessment

Proponent:	Central Klickitat Conservation District	**County:**	Klickitat	**Requested Amount:**	$180,000
Legislative District:	14	**River:**	Klickitat	**Match:**	$45,000

Primary Objectives: Flood Risk Reduction; Salmon Habitat Restoration; Water Quality Improvement; Agricultural Viability

Project Summary: This basin-wide effort will develop conceptual designs for several projects to reduce flood hazard and improve floodplain habitat and water quality on the Little Klickitat River, a Columbia River tributary. The project will include detailed modeling of hydrologic and hydraulic conditions; landowner outreach and education; and identification of potential floodplain enhancement projects over 16 miles of the Little Klickitat River.