

New Projects Proposed by Flood Authority Jurisdictions

Public Information

No new projects have been submitted

Regulation

- 2/19 Workshop – Give tax breaks to people who remove structures and fill from the floodplain (Grays Harbor)
- 2/19 Workshop – Penalize people who build or fill in the floodplain (Chehalis Tribe)
- 2/19 Workshop – Formation of the Flood District

Flood Damage Reduction

Thurston County—Moon Road / East 188th Roadway – Raise in Elevation
Thurston County—Elevating homes in the Chehalis Basin

Lewis County—Lincoln Creek Floodplain Purchase
Lewis County—Floodplain Property Acquisition Project with developed criteria to determine feasibility, priority, and value of potential properties

Emergency Response and Preparedness

- 2/19 Workshop – Coordinate operation of the Wynoochee Dam and the Skookumchuck Dam (Grays Harbor & Transalta)
- 2/19 Workshop – Add gauge just below the Wynoochee Dam (Grays Harbor)
- 2/19 Workshop – Consider adding rain gauges (Grays Harbor)
- 2/19 Workshop – Add generator at Grays Harbor Fairgrounds. (Grays Harbor)
- 2/19 Workshop – Address loss of power, loss of cell phone coverage (Lewis County)
- 2/19 Workshop – Critter pads – addresses livestock loss (Lewis County)

Floodplain Protection

- Oakville—Construct relief culvert to improve drainage from the north side of the City of the south side
- Oakville—Replace the existing culvert at Harris Creek under State Street with a three-sided structure
- Oakville—Install four three-sided structures in the northerly approach to the Sigmund-Ford bridge
- 2/19 Workshop – River braiding on Wynoochee, Satsop – open old migration channels (Grays Harbor)
- 2/19 Workshop – Culvert projects on Hiram Hall (Grays Harbor)

2/19 Workshop – Raise the height of dikes around, or otherwise protect, the Montesano WWTP (Montesano)

Bank Protection

2/19 Workshop – ¼-mile Chehalis River bank protection at Mary's River Lumber, Montesano (Montesano)
Thurston County—Independence Road Bank Protection Project

Conveyance Capacity

2/19 Workshop – Open Migration Zone of the River – remove or mitigate man-made obstacles in the Satsop River (Grays Harbor - will submit form)
2/19 Workshop – Dredging of Lake Sylvia behind dam (Montesano)

Natural Resource Protection Projects

2/19 Workshop – Montesano / Grays Harbor County Camp Creek drainage improvements (Montesano & Grays Harbor)

Studies

Mapping/Modeling

Local

Lewis County—Channel Migration Zone Mapping

Centralia—Channel Migration Zone Mapping

Chehalis Tribe—Conduct a channel migration analysis for the Chehalis River from the city of Centralia to the Grays Harbor County line

Chehalis Tribe—Augment the Chehalis Tribe Comprehensive Flood Plan with 2-, 5-, and 10-year recurrence interval flood surface maps

Regional

Public comment – Survey of river cross-sections.

Thurston County—Remap floodplains using new 2-foot contour data for all rivers; submit changes to FEMA for map revisions

Plans

Local

Lewis County and Chehalis—Berwick Creek Drainage Basin Plan

Lewis County and Chehalis—China Creek Drainage Basin Plan

Thurston County—Rochester Stormwater Plan

Thurston County—Revise Thurston County's Comprehensive Flood Hazard Management Plan

Regional

Thurston County—Reevaluate land uses and zoning based on the new floodplain maps

Studies

Local

Chehalis Tribe—Evaluate river channel responses to influx and deposition of sediment in vicinity of the Chehalis Reservation

Chehalis Tribe—Conduct a study to determine volume, placement, and potential impacts of flood on failed riprap placed by Thurston County on the Chehalis River bank adjacent to Independence Road

Chehalis Tribe—Identify and conduct studies that would need to be accomplished in order to design the proposed mitigation strategies (such as raising Moon Road)

Chehalis Tribe—Investigate local conditions in the vicinity of the pushup levee near Wickett properties to assess site specific and downstream impacts during flooding

Public comment – Determine what is causing water backup over Highway 6.

Chehalis Tribe—Conduct a study to determine the type and volume of fill adjacent to Harris Creek and evaluate if it would be beneficial to remove the fill

Thurston County—Feasibility Study – Independence Road Bank Realignment out of Flood Plain

Thurston County—Skookumchuck River scour potential with dam modifications

Chehalis Tribe—Coordinate with the Flood Authority to develop a dynamic model of the middle basin to assess effects of future basin development on the flood hydrology at the Chehalis Reservation

Chehalis Tribe—Construct a two-dimensional flow model for the floodplain with Chehalis Reservation boundaries

Chehalis Tribe—Model the effects of removing/modifying the Sickman-Ford bridge approach and Balch Road

Regional

Chehalis Tribe—Conduct a detailed cumulative downstream flood impacts analysis

Chehalis Tribe—Develop a semi-annual monitoring program focused on documenting changes in Chehalis River channel conditions and dimensions

Public comment – Study the surface water and runoff impact of recent large trucking and warehouse facilities built in the Basin.

Public comment – Study how groundwater flooding impacts flood events.

2/19 Workshop – Study groundwater/surface water interaction (Grays Harbor – will submit form)

Thurston County—Inventory high quality riparian habitat along river reaches

Chehalis Basin Partnership – USGS Groundwater Characterization Study

Lewis County PUD – Phase II Feasibility Study of Water Retention Facilities Potential

Lewis County—Evaluate opportunities for flood warning systems

Lewis County PUD/Chehalis River Partnership - Study impacts and feasibility of upstream storage on flood elevations and summer low flows. Coordinate with the

Chehalis River Partnership on their grant-funded study evaluating all storage options in the basin

USACE – Twin Cities Flood Reduction Study (cost share with the State)

Chehalis Tribe/Grays Harbor County – Develop accurate hydraulic model of the Chehalis River below Grand Mound. Determine needed/available topographic data and bathymetry. Submit results to FEMA for remapping.

USGS/FEMA – Floodpath warning model (cost share with USGS/FEMA)

Grays Harbor County for the Chehalis Partnership—Analysis and Valuation of Flood Protection and Other Ecosystem Services in the Chehalis Watershed

Lewis County Public Works – Floodplain Property Acquisition Program

Corps of Engineers – Basin-Wide General Investigation

ESA Adolfson – Identification of grant opportunities

Chehalis Basin Partnership - A Decision Support Tool for Watershed Planning in the Chehalis River Basin—the tool can be used to evaluate the effects of various land use and water management scenarios on the timing and magnitude of floods in the basin

Projects Identified in Existing Comprehensive Flood Hazard Management Plans

Public Information

- Grays Harbor County—Provide educational materials on flood hazard management
- Grays Harbor County—Provide floodproofing guidance to residents
- Centralia—Provide on-going public education regarding best management practice issues, flood hazard mitigation, water quality, stormwater
- Chehalis Tribe—Develop a community-wide flood hazard educational outreach program

Regulation

- Grays Harbor County—Develop floodplain conservation easement program
- Centralia—Improve floodplain and stormwater regulations

Planning and Data Collection

- Lewis County and Chehalis—Berwick Creek Drainage Basin Plan
- Lewis County and Chehalis—China Creek Drainage Basin Plan
- Lewis County—Channel Migration Zone Mapping
- Centralia—Channel Migration Zone Mapping
- Chehalis Tribe—Coordinate with the Flood Authority to develop a dynamic model of the middle basin to assess effects of future basin development on the flood hydrology at the Chehalis Reservation
- Chehalis Tribe—Conduct a detailed cumulative downstream flood impacts analysis
- Chehalis Tribe—Evaluate river channel responses to influx and deposition of sediment in vicinity of the Chehalis Reservation
- Chehalis Tribe—Conduct a study to determine volume, placement, and potential impacts of flood on failed riprap placed by Thurston County on the Chehalis River bank adjacent to Independence Road
- Chehalis Tribe—Conduct a channel migration analysis for the Chehalis River from the city of Centralia to the Grays Harbor County line
- Chehalis Tribe—Construct a two-dimensional flow model for the floodplain with Chehalis Reservation boundaries
- Chehalis Tribe—Model the effects of removing/modifying the Sickman-Ford bridge approach and Balch Road
- Chehalis Tribe—Develop a semi-annual monitoring program focused on documenting changes in Chehalis River channel conditions and dimensions
- Chehalis Tribe—Identify and conduct studies that would need to be accomplished in order to design the proposed mitigation strategies (such as raise Moon Road)
- Chehalis Tribe—Investigate local conditions in the vicinity of the pushup levee near Wickett properties to assess site specific and downstream impacts during flooding
- Chehalis Tribe—Conduct a study to determine the type and volume of fill adjacent to Harris Creek and evaluate if it would be beneficial to remove the fill

Chehalis Tribe—Augment the Chehalis Tribe Comprehensive Flood Plan with 2-, 5-, and 10-year recurrence interval flood surface maps
Thurston County—Remap floodplains using new 2-foot contour data for all rivers; submit changes to FEMA for map revisions
Thurston County—Reevaluate land uses and zoning based on the new floodplain maps
Thurston County—Inventory high quality riparian habitat along river reaches

Flood Damage Reduction

Grays Harbor County—Join the NFIP Community Rating System
Grays Harbor County—Develop a home elevation and buyout program
Bucoda—Regrade Main Street
Bucoda—Raise houses
Centralia—Participate in NFIP Community Rating System
Chehalis Tribe—Raise Moon Road south of Highway 12 to provide emergency access
Chehalis Tribe—Elevate homes in the floodplain inundated by previous events

Emergency Response and Preparedness

Lewis County—Evaluate opportunities for flood warning systems
Grays Harbor County—Establish policies to ensure that flood hazard warnings are posted during flood events and that flood elevation poles are placed near rivers to show high water marks from previous floods
Grays Harbor County—Install new gauges and upgrade existing gauges
Install flow gauge on Humptulips River
Install stage gauges on the Satsop River, Chehalis River at the Harbor and Upper Humptulips River
Montesano—Install generator at City Hall for Emergency Operations Center
Montesano—Construct drinking water reservoir on city property
Bucoda—Improve flood notification and response program
Centralia—Develop and maintain a specific flood warning and evaluation program for the city
Chehalis Tribe—Implement the Emergency Preparedness and Response Plan for the Chehalis Tribe adopted in May 2008
Chehalis Tribe—Improve flood warning procedures
Chehalis Tribe—Acquire facilities and equipment to improve emergency preparedness and responsiveness

Floodplain Protection

Lewis County and Centralia—Flood alleviation project along I-5
Lewis County and Centralia—Construct regional flood detention facilities
Lewis County and Centralia—Construct regional stormwater detention facilities
Lewis County and Centralia—Salzer Creek backwater control
Lewis County and Centralia—Coordinate with USACE on Skookumchuck Dam for flood control

Grays Harbor County—Provide increased on-site detention and retention
Bucoda—Build an overtopping levee at the north end of town
Bucoda—Install twin 18-inch culverts under Main Street at 11th
Centralia—Construct levees along the Chehalis River in Centralia (USACE project)
Chehalis Tribe—Install large diameter culverts beneath State Road at Harris Creek to improve flood passage
Chehalis Tribe—Install culverts under South Bank Road along the approach to Sickman-Ford bridge
Chehalis Tribe—Install floodplain roughening along the left bank of the Chehalis River downstream of the Sickman-Ford bridge
Chehalis Tribe—Remove push-up levee downstream of the Sickman-Ford bridge
Chehalis Tribe—Remove road embankment fill under Balch Road
Chehalis Tribe—Replace Highway 12 bridge at Black River
Thurston County—Complete storm and surface water utility projects at Meridian Heights, Mallard Pond Phase 2, and Evergreen Terrace (scheduled for 2009)

Bank Protection

Lewis County—Develop a technical assistance program for bank stabilization and/or debris removal
Grays Harbor County—Incorporate biostabilization and other engineered solutions to stabilize banks
Montesano—Provide long-term stabilization of the Wynoochee River banks to protect City sewage facilities
Bucoda—Streambank stabilization

Conveyance Capacity

Natural Resource Protection Projects

Centralia—Protect and restore critical areas
Centralia—Provide habitat for wildlife and fish
Thurston County—Establish reforested corridors along river and stream shorelines, working with landowners and others

New Projects Proposed by Flood Authority Jurisdictions

Planning and Data Collection

Thurston County—Revise Thurston County's Comprehensive Flood Hazard Management Plan

Floodplain Protection

Oakville—Construct relief culvert to improve drainage from the north side of the City of the south side

Oakville—Replace the existing culvert at Harris Creek under State Street with a three-sided structure

Oakville—Install four three-sided structures in the northerly approach to the Sigmund-Ford bridge