



LOWER SNOQUALMIE RIVER

King County Flood Hazard Management Plan Update

Lower Snoqualmie floodplain, Dec. 2010

King County's river and floodplain management vision and strategy:

- Work with partners valley-wide to balance floodplain management goals with farming and habitat needs.
- In channel migration areas, allow more room for natural channel movement and increase capacity for floodwaters and sediment through levee setbacks and voluntary acquisitions, and coordinate with affected landowners.
- In the broader valley, where flows are slower, continue to work with farmers to reduce flooding impacts.
- Outside the Tolt and Raging alluvial fan areas, reduce flooding impacts on farm operations while protecting floodplain functions by elevating houses and barns and building farm pads.

Existing conditions of the Lower Snoqualmie valley:

- In this deep, broad floodplain, levees limit bank erosion but do not protect against inundation.
- Homes, farms and businesses are regularly impacted by flooding.
- In several locations, facilities that protect roads or other infrastructure are eroding or unstable.
- The steeper gradient and additional gravel found downstream of the Tolt and Raging Rivers increase the risks of fast and erosive flows and channel migration.
- This basin provides important habitat for Chinook and coho salmon and steelhead.



Above: State Route 202 damage near Fall City, Jan. 2009



Left: Flooded farm near Carnation, Jan. 2009

King County Flood Plan accomplishments 2006-2012:

- Provided technical and permitting help for 34 farm pads; 24 of which were constructed.
- Elevated two barns and twelve homes.
- Acquired 36 acres of land and 15 residences to reduce flood hazards.
- Repaired two levees after the November 2006 flood.
- Submitted a draft flood insurance study of the Lower Snoqualmie River to the Federal Emergency Management Agency, which is awaiting adoption.

Proposed river and floodplain management actions for 2013-2018:

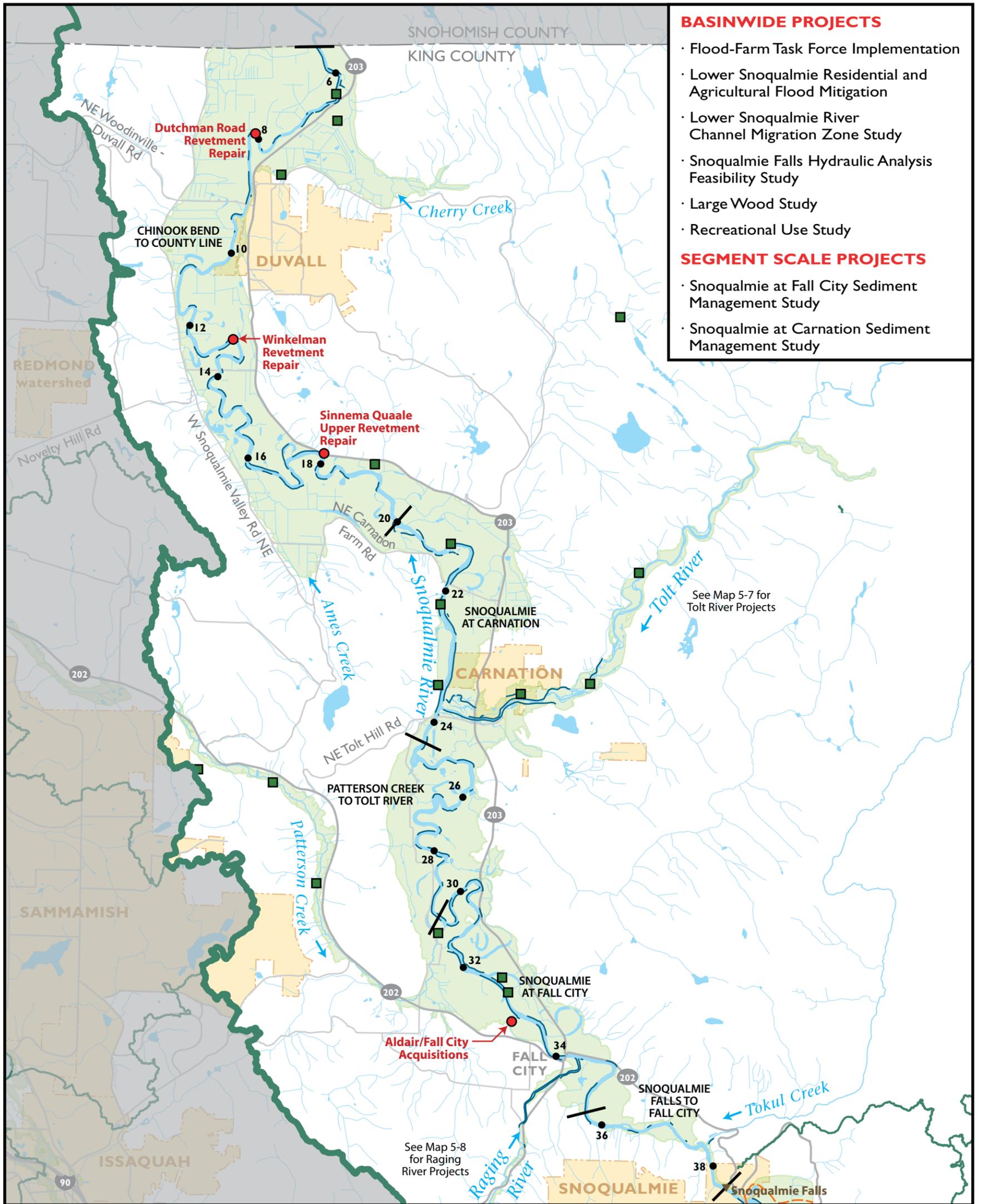
- Continue collaboration to balance King County's interest in fish, farms and flood safety.
- Build farm pads, elevate barns and consider a study of recent changes at Snoqualmie Falls.
- Elevate homes and farm buildings, and acquire homes in high erosion risk locations.
- Study flood and erosion reduction measures to see how they could affect wood accumulation and recreational safety. Study the type and extent of recreational use in the Lower Snoqualmie River.
- Acquire at-risk structures in the Fall City area; support levee setback projects on mainstem Snoqualmie downstream of Fall City and provide related benefits to agriculture.
- Support monitoring and adaptive management of restoration projects on mainstem Snoqualmie downstream of Carnation.
- Repair the Sinnema Quaale Upper Revetment (Snoqualmie Valley Trail and State Route 203), the Winkelman Revetment (Tolt water supply pipeline), and the Dutchman Road Revetment (West Snoqualmie River Road NE).
- Conduct channel migration mapping of the Lower Snoqualmie River.
- Continue gravel monitoring and implement gravel management actions if appropriate in the river segments below the Tolt and Raging rivers.



Barn elevation near Carnation, Oct. 2012

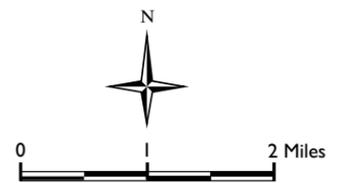
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or email WLR-rivers@kingcounty.gov.

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- BASINWIDE PROJECTS**
- Flood-Farm Task Force Implementation
 - Lower Snoqualmie Residential and Agricultural Flood Mitigation
 - Lower Snoqualmie River Channel Migration Zone Study
 - Snoqualmie Falls Hydraulic Analysis Feasibility Study
 - Large Wood Study
 - Recreational Use Study
- SEGMENT SCALE PROJECTS**
- Snoqualmie at Fall City Sediment Management Study
 - Snoqualmie at Carnation Sediment Management Study

LOWER SNOQUALMIE RIVER
KING COUNTY FLOOD HAZARD MANAGEMENT PLAN



- Proposed Project Sites, as described in Chapter 5 (Project locations are approximate)
- NAME River Segment Boundary and Segment Name
- Rivers and Streams with FEMA Mapped 100-Year Regulatory Floodplains
- Rivers and Streams with Unmapped Regulatory Floodplains
- Flood Protection Infrastructure (Levees & Revetments)
- WRIA Salmon Recovery 3-Year Work Plan Project Sites
- 2 River Miles (Approximate)
- Watershed/Basin Boundary
- Road
- Incorporated Area

King County
 Department of Natural Resources and Parks
Water and Land Resources Division

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Data sources: King County datasets
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