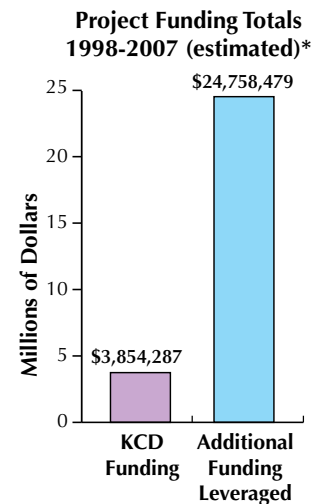
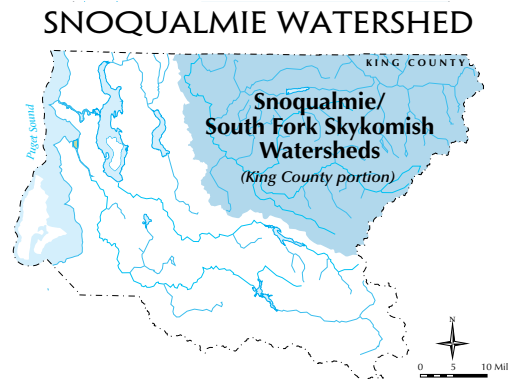


The King Conservation District Assessment

MAKING A DIFFERENCE IN NATURAL RESOURCES STEWARDSHIP

KCD-Funded Projects in the Snoqualmie Watershed

The Snoqualmie Watershed Forum is comprised of the cities of Carnation, Duvall, North Bend and Snoqualmie, along with King County and the Snoqualmie Tribe. The Forum makes recommendations to the King Conservation District on watershed protection, restoration and salmon conservation projects to be funded with a portion of the KCD per-parcel assessment and implemented in eligible jurisdictions within the King County portion of the watershed. In 2008, the Snoqualmie Forum will make recommendations for approximately \$92,000 in projects, based on the 2008 assessment of \$10 per parcel.



Snoqualmie Watershed Project List

1998-2007 (listed earliest to most recent)

City of Carnation: Stormwater Program Review

KCD Funds: \$86,000

Additional Amount Leveraged: \$1,400

Evaluate stormwater plan and construction standards for consistency with state standards and Endangered Species Act (ESA) requirements. Develop permanent funding recommendation for improvements.

City of Duvall: Habitat Protection of Duvall-Area Tributaries/GIS Mapping of Sensitive Areas and Shorelines

KCD Funds: \$103,000

Additional Amount Leveraged: \$2,000

Increase effectiveness of environmental regulations by applying improved habitat information. Evaluate city's habitat restoration needs and support ESA response.

Snoqualmie Watershed Forum: Support for Snoqualmie Watershed Forum (1999-2000)

KCD Funds: \$130,000

Additional Amount Leveraged: \$610,000

Support public and local jurisdiction involvement in developing the Snohomish Basin Salmon Conservation Plan. Create habitat conditions report and develop strategy to protect and restore the Snoqualmie/Skykomish watersheds.

King County: Support for Agriculture Best Management Practices (BMPs)

KCD Funds: \$100,000

Additional Amount Leveraged: \$100,000

Collect habitat and fish data to guide application of Best Management Practices to rural streams and ditches. Provide agricultural land owners with technical assistance on new BMPs and monitor effectiveness and feasibility.

King County: Snoqualmie Watershed Festival

KCD Funds: \$5,000

Coordinate community involvement in local festival to increase public awareness and understanding of water resources in the Snoqualmie Watershed.

King County: Plants for Parks

KCD Funds: \$5,000

Additional Amount Leveraged: \$2,000

Restore native plant vegetation on natural lands managed by King County through community stewardship.

King County: Watershed Action Grants for Community Groups

KCD Funds: \$15,000

Additional Amount Leveraged: \$8,000

Provide direct grant support for projects that protect waterways and fish habitat and related public education projects.

* For the years 1998-2005, the KCD assessment was \$5 per parcel; for the years 2006 and 2007 it was \$10 per parcel.

King County: Lower Griffin Creek Restoration

KCD Funds: \$50,000

Additional Amount Leveraged: \$213,000

Complete habitat improvement phase of restoration project by reducing water quality impacts from livestock and reducing flood impacts to a farm.

City of North Bend: Flood Regulations Consistency Project

KCD Funds: \$40,000

Additional Amount Leveraged: \$60,000

Evaluate North Bend regulations for consistency with King County Flood Hazard Reduction Plan, minimize new flood hazards and protect habitat.

City of Snoqualmie: Snoqualmie 205 Flood Reduction Project

KCD Funds: \$100,000

Additional Amount Leveraged: \$2,700,000

Excavate the Snoqualmie River channel to lower flood water levels in the City of Snoqualmie.

Snoqualmie Watershed Forum: Support for Snoqualmie Watershed Forum (2001)

KCD Funds: \$85,000

Additional Amount Leveraged: \$50,400

Develop the Snohomish Basin Chinook Salmon Near Term Action Agenda. Evaluate and identify salmon conservation and recovery actions in the Snoqualmie/Skykomish watershed.

King County: Snoqualmie/Skykomish Habitat Acquisitions

KCD Funds: \$140,000

Additional Amount Leveraged: \$860,000

Implement chinook conservation and recovery strategy and build on the Waterways 2000 Program to acquire and protect corridors of high quality habitat.

King County: Tolt MacDonald Park Riparian Enhancement

KCD Funds: \$5,000

Additional Amount Leveraged: \$25,000

Plant 150-ft. native vegetation buffer along the Snoqualmie River bank, including protective hedgerow, followed by one year of monitoring, maintenance and watering.

City of North Bend: North Bend Flood Hazard Management Plan Cost/Benefit Analysis

KCD Funds: \$75,000

Additional Amount Leveraged: \$66,667

Analyze alternative flood mitigation actions being developed to avoid future flooding and need for flood assistance. Provide public information on alternatives.

Snoqualmie Watershed Forum: Support for Snoqualmie Watershed Forum (2002)

KCD Funds: \$49,712

Additional Amount Leveraged: \$140,319

Work with Snoqualmie residents and local jurisdictions to implement recommendations of the Snohomish Near Term Action Agenda.

King County: Chinook Bend Riparian Enhancement

KCD Funds: \$25,000

Additional Amount Leveraged: \$75,000

Plant 400 conifer trees to create riparian buffer and floodplain that prevents erosion, enhances habitat and provides recreation. Educate public through volunteer planting events and provide monitoring, maintenance and watering of restoration plantings.

City of North Bend: Tollgate Farm Acquisition

KCD Funds: \$200,000

Additional Amount Leveraged: \$9,800,000

Acquire 35 acres of critical floodwater storage area. Preserve flood storage and prime riparian habitat in the upper Snoqualmie Valley; enhance water quality in the South Fork Snoqualmie River; prevent further soil erosion and reduced sedimentation and pollution in the South Fork Snoqualmie River. Create permanent wildlife corridor in a public network of 1,200 acres on the valley floor.

Snoqualmie Watershed Forum: Support for Snoqualmie Watershed Forum (2003)

KCD Funds: \$52,197

Additional Amount Leveraged: \$144,185

Provide administrative support, policy analysis and technical assistance to coordinate public involvement and development of the Snohomish Basin Salmon Conservation Plan. Review local planning policies and regulations with staff of Snoqualmie Forum cities.

King County: Patterson Creek Tributary 0383 Restoration

KCD Funds: \$42,500

Additional Amount Leveraged: \$154,742

Restore Patterson Creek corridor on public and private land using riparian plantings, livestock fencing, interpretive signage, streambank stabilization, large woody debris (LWD) installation, culvert replacement, and relocation of stream channel.

King County: Snoqualmie Small Habitat Restoration

KCD Funds: \$25,000

Additional Amount Leveraged: \$25,000

Assist five private landowners with habitat restoration activities in stream corridors and wetlands. Includes stabilizing eroding streambanks, removing fish passage barriers, restoring and enhancing in-stream and riparian habitats.

City of Snoqualmie: Kimball Creek Water Quality Monitoring and Improvement Plan

KCD Funds: \$19,000

Additional Amount Leveraged: \$42,000

Monitor water quality in Kimball Creek with help from local students and develop recommendations for improving water quality.

City of Duvall: Thayer Creek Culvert Replacement

KCD Funds: \$77,500

Additional Amount Leveraged: \$3,600

Replace two culverts on Thayer Creek with bridges to improve fish passage. Improve bank habitat with riparian plantings.

Snoqualmie Watershed Forum: Support for Snoqualmie Watershed Forum (2004)

KCD Funds: \$62,340

Additional Amount Leveraged: \$234,517

Provide policy analysis, conservation planning, project implementation and public outreach support to the Snoqualmie Watershed Forum. Develop draft Snohomish Basin Salmon Conservation Plan.

King County: Snoqualmie Agricultural Production District Best Management Practices Education and Implementation Program

KCD Funds: \$85,000

Additional Amount Leveraged: \$129,164

Work with agricultural community to implement best management practices by providing a cost share program and technical workshops.

King County: Lower Tolt River Floodplain Reconnection Design and Permit

KCD Funds: \$125,000

Additional Amount Leveraged: \$250,000

Complete design and permitting needed to set back levees and naturalize the restored floodplain area in the lower 0.5 miles of the Tolt River.

King County: Middle Fork Snoqualmie Riparian Restoration at Norman Bridge

KCD Funds: \$10,000

Additional Amount Leveraged: \$24,200

Remove invasive plants and plant 3,000 native trees in a 100-ft. buffer with help from local community, students and the Snoqualmie Tribe.

Snoqualmie Watershed Forum: Support for Snoqualmie Watershed Forum (2005)

KCD Funds: \$71,970

Additional Amount Leveraged: \$269,944

Finalize Snohomish Basin Salmon Conservation Plan and create watershed-wide list of protection and restoration projects.

King County: Chinook Bend Floodplain Revegetation Completion

KCD Funds: \$15,000

Additional Amount Leveraged: \$16,500

Coordinate three volunteer planting events at Chinook Bend Natural Area for an ongoing floodplain revegetation project.

King County: Riparian Plantings on Snoqualmie Agriculture Lands

KCD Funds: \$60,000

Additional Amount Leveraged: \$86,600

Prepare planting designs, install riparian plantings on four acres of farmland and foster long-term stewardship in the agricultural community.

City of Snoqualmie: Snoqualmie River Bank Restoration in Snoqualmie

KCD Funds: \$25,000

Additional Amount Leveraged: \$5,688

Remove invasive plants, install riparian planting and erosion control on 500 feet of streambank with help from community volunteers and the Mountains to Sound Greenway Trust.

City of North Bend: Gardiner Creek Restoration

KCD Funds: \$25,000

Additional Amount Leveraged: \$36,500

Improve water quality and wildlife habitat along 1,600 feet of riparian corridor by removing invasive plants and installing over 6,000 native trees and shrubs with help from community volunteers and the Mountains to Sound Greenway Trust.

City of Duvall: Coe-Clemmons Creek Restoration

KCD Funds: \$23,265

Additional Amount Leveraged: \$8,000

Enhance 800 feet of Coe-Clemmons Creek by improving riparian vegetation and installing two beaver deceiver devices to control water levels of the Snoqualmie Valley Trail.

City of Carnation: Wetland Inventory

KCD Funds: \$6,586

Additional Amount Leveraged: \$11,000

Finalize wetland inventory and map critical areas identified in Carnation.

Drainage District #7: Cherry Creek Pump Station

KCD Funds: \$69,944

Additional Amount Leveraged: \$257,493

Replace conventional pump system on Cherry Creek with a fish-friendly system (hidrostal pump and gates) designed to improve fish passage and reduce mortality rates.

Snoqualmie Tribe: Fish Passage Effectiveness Monitoring at Cherry Creek Hidrostal Pump Station

KCD Funds: \$34,550

Additional Amount Leveraged: \$3,100

Measure fish mortality rates associated with hidrostal pump passage and monitor bi-directional fish migration.

Stilly-Snohomish Fisheries Enhancement Task Force: Lower Snoqualmie (City of Duvall Reach) Riparian Restoration and Awareness

KCD Funds: \$25,000

Additional Amount Leveraged: \$57,281

Remove invasive species, plant five acres of native vegetation, conduct outreach to local community, and monitor and maintain site at McCormick Park in Duvall.

Ducks Unlimited: Wetland Enhancement and Creation at Chinook Bend Natural Areas (Design Phase)

KCD Funds: \$14,000

Additional Amount Leveraged: \$111,300

Design wetland enhancement project using reclaimed water from the City of Carnation to benefit wildlife habitat and improve water quality.

City of Snoqualmie: Kimball Creek Restoration Phase II

KCD Funds: \$21,805

Additional Amount Leveraged: \$9,773

Restore riparian buffer along Kimball Creek by removing non-native plants, installing 2,250 native trees, shrubs and willow stakes, and providing maintenance.

King County: Raging River Preston Reach Floodplain Reconnection

KCD Funds: \$122,645

Additional Amount Leveraged: \$390,000

Remove levee, reconnecting the river with seven acres of floodplain and reestablishing prime spawning and rearing habitat for salmon.

City of North Bend: Ribary Creek Restoration

KCD Funds: \$25,000

Additional Amount Leveraged: \$20,000

Restore 1.5 acres of riparian habitat, fence 1,000 feet along the creek and install over 3,000 native trees, willow stakes and shrubs on a publicly owned farm to address erosion and water quality concerns.

King County: Riparian Plantings on Snoqualmie Agriculture Lands/Landowner Incentives Phase II

KCD Funds: \$20,000

Additional Amount Leveraged: \$23,000

Install riparian plantings on two acres of farm land to build landowner leadership. Develop cost-effective plantings and identify a local labor pool for long-term maintenance.

Stewardship Partners: Snoquamie Valley Salmon Safe

KCD Funds: \$12,000

Additional Amount Leveraged: \$28,000

Promote farming practices that contribute to salmon recovery and habitat conservation through a fish-friendly certification program.

King County: Snoqualmie Juvenile Fish Surveys

KCD Funds: \$50,000

Additional Amount Leveraged: \$82,732

Survey juvenile fish use of different habitats in floodplain reaches to help prioritize restoration and preservation projects and provide a baseline measurement for recovery actions.

Snoqualmie Watershed Forum: Community Outreach and Capacity Building for Project Implementation in the Snoqualmie Watershed

KCD Funds: \$79,385

Additional Amount Leveraged: \$10,000

Engage landowners in habitat restoration efforts and educate watershed organizations on conservation priorities. Develop capacity building partnerships with nonprofit organizations for salmon conservation projects.

City of Duvall: Coe Clemmons Creek Sediment Study and Remediation Alternatives

KCD Funds: \$62,234

Additional Amount Leveraged: \$1,000

Conduct a sediment study, develop remediation alternatives, and complete design of one alternative for the Coe Clemmons Creek alluvial fan sedimentation problem at State Highway 203 in Duvall.

King County and City of Seattle: Lower Tolt Floodplain Reconnection Project –Construction Phase

KCD Funds: \$100,000

Additional Amount Leveraged: \$4,900,000

Restore habitat connectivity between the Tolt River and 48 acres of floodplain habitat by removing 0.5 miles of levee at the confluence of the Tolt and Snoqualmie rivers, improving rearing and spawning habitat for Chinook salmon.

Washington Trout: Cherry Creek/Mainstem Snoqualmie River Relict Channel Restoration

KCD Funds: \$50,000

Additional Amount Leveraged: \$120,000

Restore floodplain connectivity to 2,800 ft. of Cherry Creek, improving salmon spawning, refuge, and rearing habitat for seven species of salmonids.

Stilly-Snohomish Fisheries Enhancement Task Force: Duvall Reach Floodplain Habitat Enhancement – Phase 2

KCD Funds: \$49,750

Additional Amount Leveraged: \$50,100

Restore 10 acres of degraded riparian habitat along a mile of the Snoqualmie River in the City of Duvall's McCormick Park. The project will also involve extensive outreach and education to the local community.

King County: Riparian Plantings on Snoqualmie Agriculture Lands (Phase 3)

KCD Funds: \$40,000

Additional Amount Leveraged: \$36,500

Improve riparian forest conditions on agricultural lands on high priority reaches of the mainstem Snoqualmie River. The project will plant up to four acres with native plants.

King County: Snoqualmie Watershed Priority Habitat Acquisitions

KCD Funds: \$100,000

Additional Amount Leveraged: \$566,000

Protect up to 16 acres in three high-priority salmon habitat areas along Griffin Creek, the Raging River, and the Tolt River.

King County: Chinook Bend Levee Removal Design

KCD Funds: \$50,000

Additional Amount Leveraged: \$100,000

Design a floodplain restoration project along the Snoqualmie River that will remove a levee and allow the river to access its floodplain on King County's Chinook Bend Natural Area.

Mountains to Sound Greenway Trust: Upper Snoqualmie Restoration Site Maintenance/Plant Establishment

KCD Funds: \$26,220

Additional Amount Leveraged: \$2,620

Provide two years of habitat restoration project maintenance to ensure long-term success in creating a healthy riparian zone along Kimball and Gardiner Creeks and Snoqualmie River.

City of North Bend: Ribary Creek Restoration - Phase 2

KCD Funds: \$42,000

Additional Amount Leveraged: \$10,105

Restore an additional three acres along Ribary Creek in the City of North Bend's Tollgate Farm, including planting more than 5,000 native trees, shrubs and willow stakes.

Stewardship Partners: Snoqualmie Restoration and Maintenance Crew 2007

KCD Funds: \$41,900

Additional Amount Leveraged: \$57,080

Maintain existing habitat restoration projects in the Snoqualmie Watershed initially implemented by a variety of organizations and agencies. Focus is primarily but not exclusively on riparian projects with agricultural landowners.

City of Snoqualmie: Riverfront Property Acquisition

KCD Funds: \$120,000

Additional Amount Leveraged: \$60,000

Protect one or more open space-zoned parcels along the Snoqualmie River in the City of Snoqualmie. The project will protect habitat, open space and remove a structure in the designated 100-year floodplain.

City of Duvall: Frykholm Property Acquisition

KCD Funds: \$38,537

Additional Amount Leveraged: \$37,563

Purchase .88 acres in the City of Duvall to protect habitat and aquatic resources, and link existing public open space. The property includes important coho salmon habitat along Coe Clemons Creek.

Snoqualmie Watershed Forum: 2007 Community Outreach and Capacity Building for Project Implementation in the Snoqualmie Watershed

KCD Funds: \$72,000

Additional Amount Leveraged: \$71,915

Maximize regional success of Snohomish River Basin Salmon Conservation Plan implementation and broader Snoqualmie Watershed activities through project coordination, public outreach and capacity building.

Snoqualmie Tribe: Snoqualmie Hills Restoration

KCD Funds: \$14,500

Additional Amount Leveraged: \$20,663

Design and implement one acre of riparian restoration within the Snoqualmie Tribe's Initial Reservation. Project will involve local community and tribal members in the restoration activities.

Snoqualmie Tribe: Traditional Ecological Knowledge Education Project

KCD Funds: \$17,679

Additional Amount Leveraged: \$21,299

Design and implement one additional acre of riparian restoration within the Snoqualmie Tribe's Initial Reservation. The project builds on past restoration work and community involvement begun by the Snoqualmie Hills Restoration project.

Wild Fish Conservancy: Weiss Creek Restoration Project Maintenance

KCD Funds: \$12,200

Maintain an existing habitat restoration project, installed in 1999, by controlling non-native vegetation, reapplying rodent guards, and repairing a livestock exclusion fence along lower Weiss Creek.

Washington Trails Association: Grand Ridge - Canyon Creek Trail Bridge

KCD Funds: \$13,250

Additional Amount Leveraged: \$25,796

Improve water quality and protect riparian habitat along a tributary to Canyon Creek by constructing a multiuse trail bridge in King County's Grand Ridge Park.

Nature Vision: Snoqualmie Valley Water Education Project

KCD Funds: \$13,000

Educate local students about water resources and foster sustainable stewardship values in the community. Develop a Snoqualmie Watershed specific curriculum, conduct 50 pre-field classroom presentations and field trips.

King County: Morgan Property Restoration

KCD Funds: \$20,000

Additional Amount Leveraged: \$6,824

Restore 900 feet of Clough Creek riparian area on private land near North Bend by controlling invasive weeds and replanting native plants.

Stewardship Partners: Wetland Restoration on Oxbow Farm

KCD Funds: \$20,000

Additional Amount Leveraged: \$66,900

Restore up to two acres of wetland and wetland buffer in a remnant oxbow channel of the Snoqualmie River near Duvall at Oxbow Farm.

Restoration Logistics: Olsby Property Riparian Area Enhancement

KCD Funds: \$15,975

Restore 450 feet of riparian area along the South Fork Snoqualmie River by controlling invasive weeds and replanting native trees and shrubs.

Restoration Logistics: Riedel Property Conifer Regeneration & Wetland Buffer Enhancement Project

KCD Funds: \$7,575

Restore up to 2.5 acres of wetland buffer to Hart's Swamp by planting native trees and shrubs.

Nature Vision: 2007 Snoqualmie Valley Watershed Festival

KCD Funds: \$8,168

Additional Amount Leveraged: \$1,000

Develop and conduct the 2007 Snoqualmie Watershed Festival to educate Girl Scouts and local school children about watershed protection efforts and promote stewardship values in the Snoqualmie Watershed.

Lake Marcel Community Club: Control of Noxious Weeds in Lake Marcel

KCD Funds: \$5,400

Additional Amount Leveraged: \$600

Control noxious weeds in Lake Marcel and survey the success reducing water lily, yellow iris and milfoil infestations.

City of North Bend: Wetland Creation and Enhancement Project

KCD Funds: \$30,000

Additional Amount Leveraged: \$286,000

Improve 1,000 feet of stormwater channel, enhance 0.15 acres of wetland and enhance 0.3 acres of wetland buffer downstream of the channel in the City of North Bend adjacent to the South Fork Snoqualmie River.

King County: Chinook Bend Levee Removal Construction

KCD Funds: \$250,000

Additional Amount Leveraged: \$750,000

Restore Chinook salmon habitat along the Snoqualmie River by removing a levee that currently prevents the river from accessing its floodplain on King County's Chinook Bend Natural Area.

Mountains to Sound Greenway Trust: Raging River Floodplain Enhancement

KCD Funds: \$25,500

Additional Amount Leveraged: \$9,750

Enhance three acres of riparian habitat and forested wetland along the Raging River by controlling noxious weeds and installing native trees and shrubs on public and private lands.

Stewardship Partners: Snoqualmie Salmon-Safe Marketing and Promotion

KCD Funds: \$15,000

Additional Amount Leveraged: \$17,000

Conduct a targeted Salmon-Safe marketing and promotional campaign that promotes Snoqualmie Valley farms in the Seattle metropolitan area.

Stewardship Partners: Snoqualmie Restoration and Maintenance Crew 2008

KCD Funds: \$50,000

Additional Amount Leveraged: \$58,765

Maintain existing habitat restoration projects in the Snoqualmie Watershed initially implemented by a variety of organizations and agencies. The project, started in 2006, will continue to ensure the long-term success of habitat restoration projects.

Wild Fish Conservancy: Fish Passage and Water Quality Monitoring at the Cherry Creek Hidrostral Pump Facility (2007-2008)

KCD Funds: \$50,000

Additional Amount Leveraged: \$51,268

Complete and enhance the 2006 Cherry Creek pump station fish passage monitoring study and disseminate definitive recommendations about the value of Hidrostral pumps for both farmers and fish.

Snoqualmie Watershed Forum: 2008 Community Outreach and Capacity Building Program

KCD Funds: \$80,000

Additional Amount Leveraged: \$233,201

Continue implementation of the Snohomish River Basin Salmon Conservation Plan and broader Snoqualmie Watershed activities through project coordination, public outreach and capacity building activities.

Stilly-Snohomish Fisheries Enhancement Task Force: Snoqualmie River Riparian Restoration and Awareness Project at Stillwater Wildlife Area

KCD Funds: \$49,550

Additional Amount Leveraged: \$48,425

Enhance up to 15 acres of riparian forest along 0.5 miles of the Snoqualmie River in the State Stillwater Wildlife Area near Carnation.