



*** Bridging Community
and Ecology within the
Columbia River Estuary**

- * Council of Governments serving local governments surrounding the Columbia River Estuary
- * Provide land use planning and special project assistance for member jurisdictions as a regional planning body
- * Assist Bonneville Power Administration and the Army Corps of Engineers with salmon recovery efforts

* Who/What is CREST?



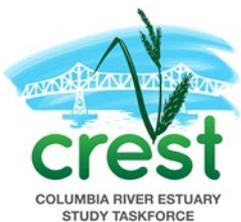
- * CREST was formed in 1974 to develop the Columbia River Estuary Management Plan through a local, collaborative process
- * CREDDP & Local Planning Services
- * Oregon Plan for Salmon and Watersheds
- * Current members include jurisdictions in both Oregon & Washington: Clatsop County, Wahkiakum County, Cities of Astoria, Warrenton, Gearhart, Seaside, Cannon Beach, Ilwaco, Port of Astoria

* History & Background



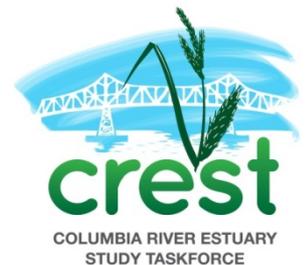
- * Cost effective and professional technical assistance to local jurisdictions, agencies, and individuals in land use planning, wetland delineation, permitting assistance, grant writing, habitat restoration (design/permitting/implementation), special projects, etc.
- * Restoration Economy - projects both large and small with ecological and economic benefits
- * Opportunity for regional cooperation, the ability to learn about and provide input on work occurring throughout the estuary

* Benefits of CREST



* Why Restoration on the Columbia?

- * Federal Columbia River Power System (FCRPS)
- * Hydropower electricity
- * 13 species of Columbia River Basin salmon and steelhead listed for protection under the Endangered Species Act (ESA).
- * Federal agencies + Endangered Species = DO NO HARM
- * Who are these federal agencies? Army Corps of Engineers, Bonneville Power Administration, and the Bureau of Reclamation.
- * The FCRPS Biological Opinion (BiOp) requires a series of mitigation measures, called Reasonable and Prudent Alternatives (RPA).
- * One Reasonable and Prudent Alternative is Columbia River Estuary Restoration projects.



* Reasonable and Prudent Alternatives

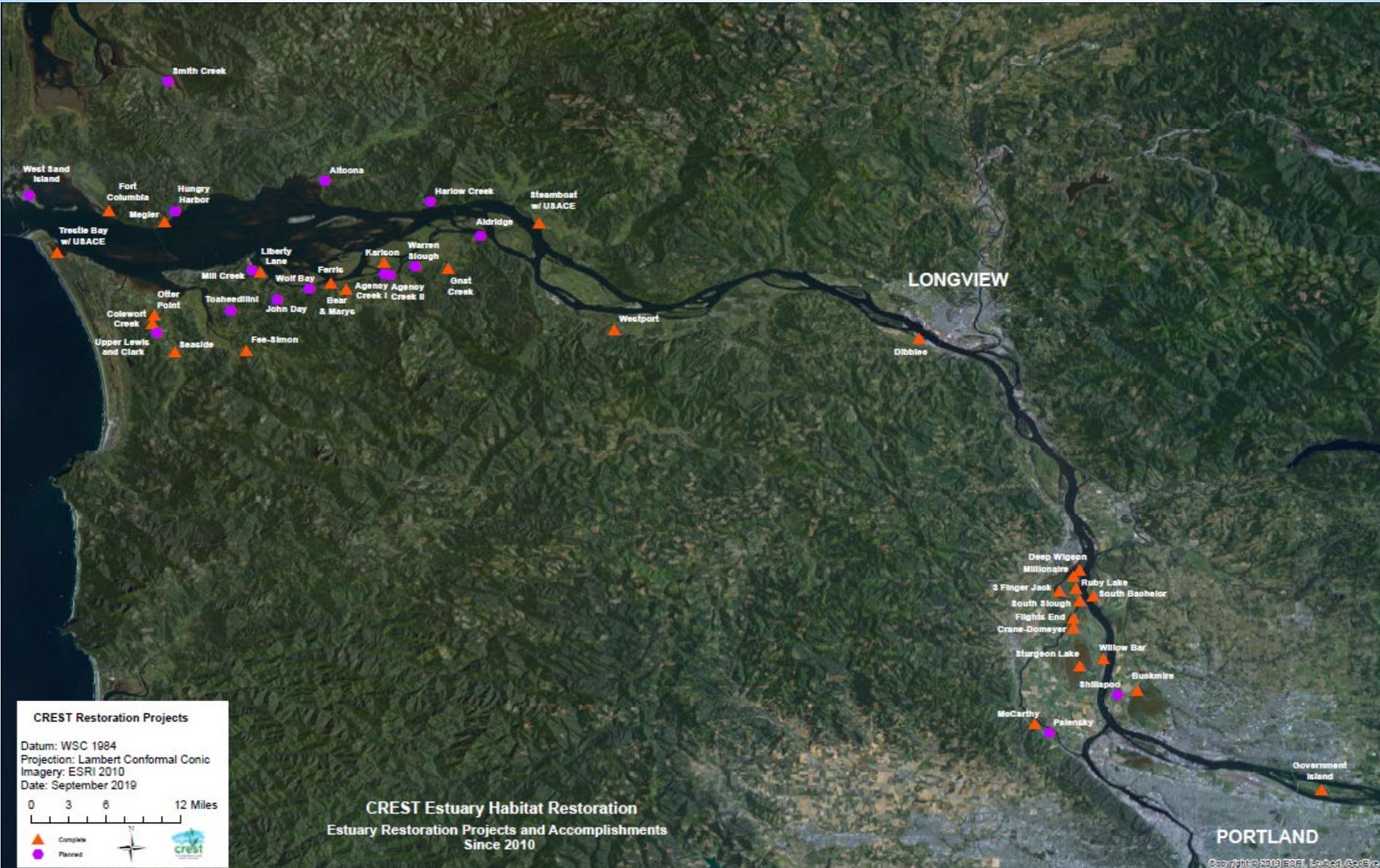
Habitat Measures

- * The FCRPS Reasonable and Prudent Alternatives includes a program of actions to improve estuary habitat limiting factors.
- * The goal of estuary habitat actions is improving survival for all populations.
- * Measures include protecting and restoring riparian and off-channel habitat, reconnecting flood plains, increasing fish access to productive habitat, and reducing predation.
- * For more information on how the FCRPS agencies are implementing these actions, visit www.salmonrecovery.gov.

CREST Estuary Habitat Restoration

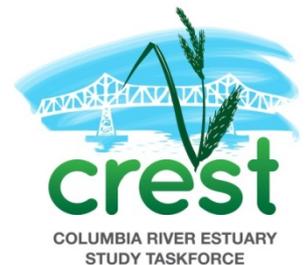
Estuary Restoration Projects and Accomplishments since 2010

www.columbiaestuary.org



*CREST Habitat Restoration Project Process

- * Identify, prioritize, and develop potential habitat restoration projects.
- * Scope and select restoration projects based on technical evaluation and scientific review.
- * Design and implement 3-5 on the ground estuarine restoration projects each year.
- * Coordinate and conduct Action Effectiveness Monitoring and research of restoration projects.



* Dalton Lake Nature Preserve

* Goals

- Improve/Restore/Maintain Ecosystem Processes
- Promote Multi-Species Benefits
- Maintain Public Access

* Competitive bidding process

- Put out an RFP to hire an engineering and design consultant to investigate the Feasibility of restoration at the Dalton Lake site.

* Received proposals from six highly qualified consulting firms.

- Inter-Fluve Inc., Lower Columbia Engineering, Otak, Wolf Water Resources, R2 Resource Consultants Inc., Stillwater Sciences

* Process/Timeline

- Proponent Selection, NOA/Contracting
- Data Collection, Background Research
- Modeling
- Alternatives Analysis
- Bring Selected Alternative to the 30% Design Level

*Questions?