Orca Recovery in Northern Puget Sound

Amy Windrope, North Puget Sound Director



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WDFW Mission

To preserve, protect and perpetuate fish, wildlife and ecosystems while providing sustainable fish and wildlife recreational and commercial opportunities.







WDFW Administration & Structure

Fish and Wildlife Commission

- 9-members appointed by the Governor
- 6-year terms 3 East, 3 West, 3 anywhere
- Responsibility
 - Policy and direction to Department
 - Monitor Department's implementation of Commission's goals
 - Appoints Agency Director





WDFW Administration & Structure



http://wdfw.wa.gov/about/regions/

Olympia Headquarters

6 Regions

- 6 Programs
 - Fish
 - Wildlife
 - Habitat
 - Enforcement
 - Capital Asset Mgt
 - Tech/Financial Mgt

WDFW Conservation Tools

- Regulatory
- Setting Seasons
- Species Augmentation
- Land Use Planning Assistance
- Private Land Partnerships
- Real Property Management





WDFW plays a key role in the outdoors

Each year, WDFW's 1,800 employees:

- Partner with 500 businesses to sell millions of hunting and fishing licenses
- Manage 1 million acres for habitat, hunting, and recreation at 33 wildlife areas
- Make 300,000 enforcement and public education contacts
- Manage 83 hatcheries and 650 water access sites

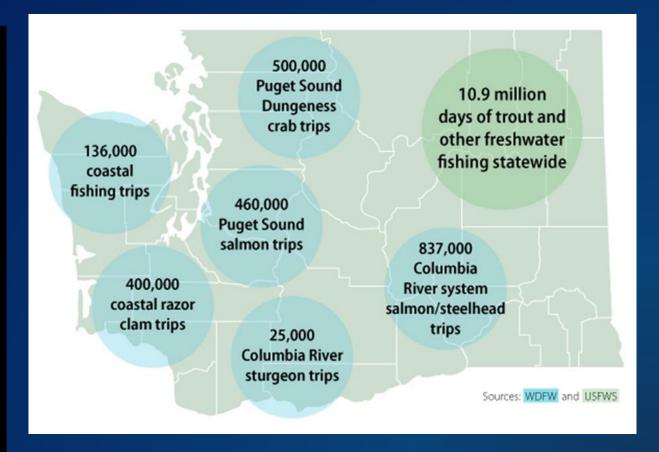




WDFW makes a difference in communities

More than \$1 billion in economic activity each year

The average angler spends \$40 per day



Hunters have opportunities in every region



Hunters generate \$356 million in economic activity per year

250,000 hunters

The average hunter spends \$64 per day

WDFW Approach to Orca Recovery Hatcheries, Habitat, Hydro and Harvest plus Predation



Two primary purposes of hatchery fish

 Provide fish for harvest (most cases)



 Contribute to natural population (conservation)



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Key Points

- Hatcheries mitigate for habitat
 - Contribute to fisheries
 - Supplement weak wild population
- Hatchery production is subject to:
 - US v Washington, and
 - US v Oregon
- State statutes direct development, operations and subsequent releases of juvenile salmonids





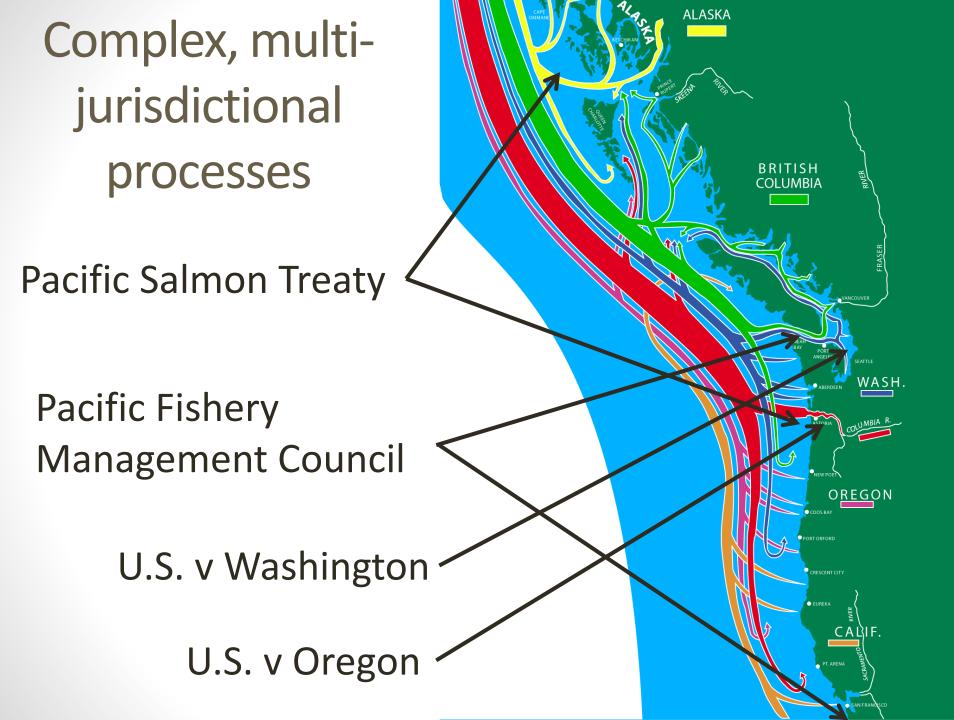
Green/Duwamish Watershed



Hatcheries and Harvest Salmon Fishery Management



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Agreement to boost salmon returning to Pacific Northwest waters



WA Governor's Office Sep 17

Treaty Rights of WA Tribes Co-Management

29
Federally
Recognized
Tribes

• Steven's Treaties

 Court Decisions



Washington Department of Fish and Wildlife State - Tribal Salmon Management Agreement Kendall Creek ake Whatcom Baker Lake Chewuch Rearing Pond Marblemount Methow Whitehorse Rearing Ponds Elwha Hurd Creek Dungeness \cap Morse Creek Wells Wallace River Bogachiel O Reiter Ponds Chiwawa Chelan Tumwater Dam FCF Tokul Creek saquah Hoodsport Hupp Springs U Rearing Pond 0 Eastbank Icy Creek Rearing Pond lumptulips McKernan George Adams Soos Creek Cedar River Bingham Creek Chambers Creek Hatchery and Trap Mayr Brothers Satsop Springs Voight Creel **Tumwater Falls** Lake Aberdeen O Skookumchuck **Priest Rapids** Lyons Ferry Forks Creek Nemah Cowlitz Trout Cowlitz Salmon **Ringold Springs** 3 Grays River North Toutle Naselle 🔘 👤 Tucannon North Toutle FCF Elochoman **Dayton Rearing Ponds** Beaver Creek Fallert Creek Modrow (Kalama) Adult Trap) Cottonwood Creek Rearing Pond O Speelyai Kalama Falls Lewis River Merwin Merwin Dam (FCF) Adult Trap Legend Washougal State Funded Boldt Case Area Skamania ISH and US v. WA **Federally Funded** WILDLIFE **Belloni** Case Area Locally Funded US v. OR 0 Other





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Habitat - Stillaguamish Watershed



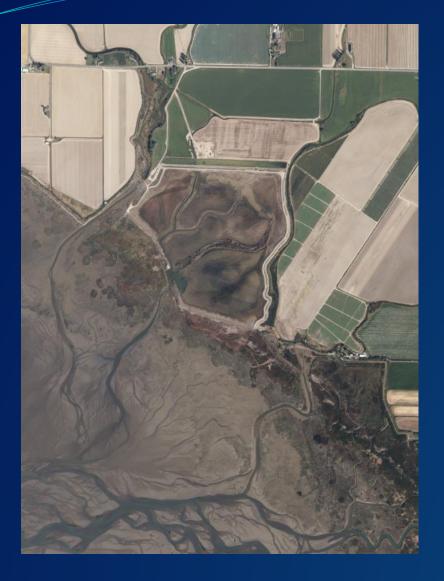
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Skagit River Watershed



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Fir Island Farm

Purchased in 1995 for snow goose reserve

Dike removed in 2016, restoring 131 acres of estuary habitat for Chinook salmon.

Hydro -Nooksack River Watershed



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Questions?



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