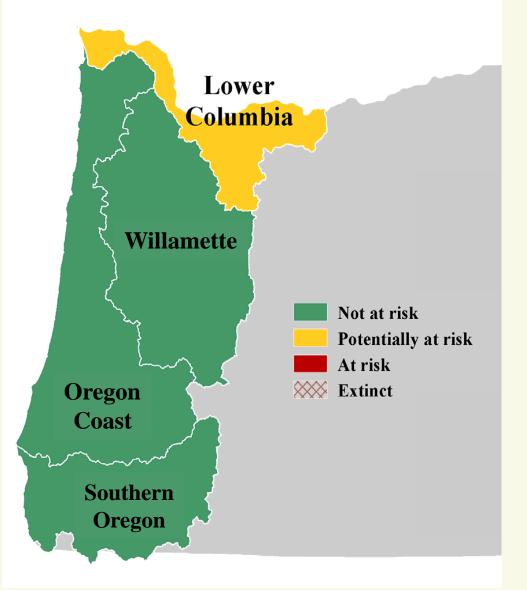
Status and Management of Coastal Cutthroat Trout in Oregon

Christopher Lorion Oregon Department of Fish and Wildlife

Oregon Native Fish Status Report - 2005

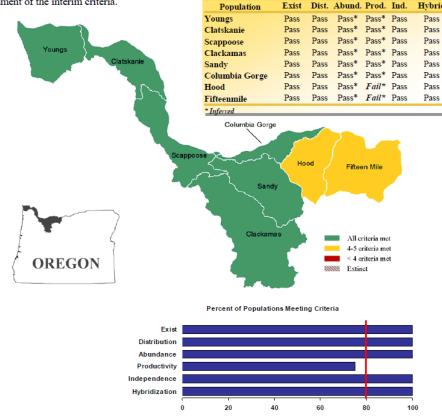


- CCT populations grouped into 4 Species Management Units (SMUs)
- Conservation risk assessed based on interim criteria:
 - Existing populations
 - Habitat Use Distribution
 - Abundance
 - Productivity
 - Reproductive Independence
 - Hybridization
- All life history strategies considered part of a single population

Lower Columbia Coastal Cutthroat SMU

ESA Designation:	State Status:	Interim Assessment:
None	Critical	Potentially at Risk

The Lower Columbia River basin supports the resident, fluvial, adfluvial and anadromous life histories of coastal cutthroat trout. The Lower Columbia River Coastal Cutthroat SMU is comprised of eight populations. All populations passed all six of the interim criteria except the Hood and Fifteenmile populations, which failed the productivity criterion due to the extremely depressed anadromous life-history. Since quantitative data are limited, the assessment was based on available data, as well as anecdotal evidence and professional opinion. This SMU was assessed as 'potentially at risk' due to the failure of the productivity criterion. Limited data sets and inferences from other information for populations in this SMU provide a qualified level of confidence in the assessment of the interim criteria.



- Quantitative data was limited, so assessment was based on available data and professional opinion
- Important consideration for Lower Columbia SMU was potential loss of anadromous life history in some populations

Coastal Multi-Species Conservation and Management Plan - 2014

- Includes Oregon Coast Coastal Cutthroat Trout SMU
- Spatial structure and diversity were used to evaluate CCT status
- All 19 CCT "populations" deemed viable, with data gaps acknowledged
- Southern Oregon CCT SMU will be included in Rogue-South Coast Multi-Species Plan, for which development has recently begun

		Chinook ^ª	Spring Chinook	Chum	Winter Steelhead	Summer Steelhead	Cutthroat
SMU Non-Vi Viability Results Popula	Viable Populations	17	1	3	19	2	19
	Non-Viable Populations	1	1	1	0	0	0
	Populations with Unknown Viability	0	0	9	0	0	0
	Viable Strata	4/4	1/1	N/A	4/4	2/2	4/4
Indicators of Confidence in Results	Populations with Declining Trend	7	1	4 ^b	2	0	N/A
	Populations with Incomplete Data	4	0	13	17	0	19
с	urrent Overall SMU Status	Strong – Guarded	Sensitive - Vulnerable	Sensitive – Critical	Strong – Guarded	Sensitive - Vulnerable	Strong – Guarded

Status and Trend Data Sources

- Dam counts
- Resting hole counts
- Angler reports
- Forest Practices Act stream checks
- Research projects by ODFW and others
- Western Oregon Rearing Project
 Juvenile Snorkel Surveys
- Life Cycle Monitoring Project Smolt and Adult Trapping



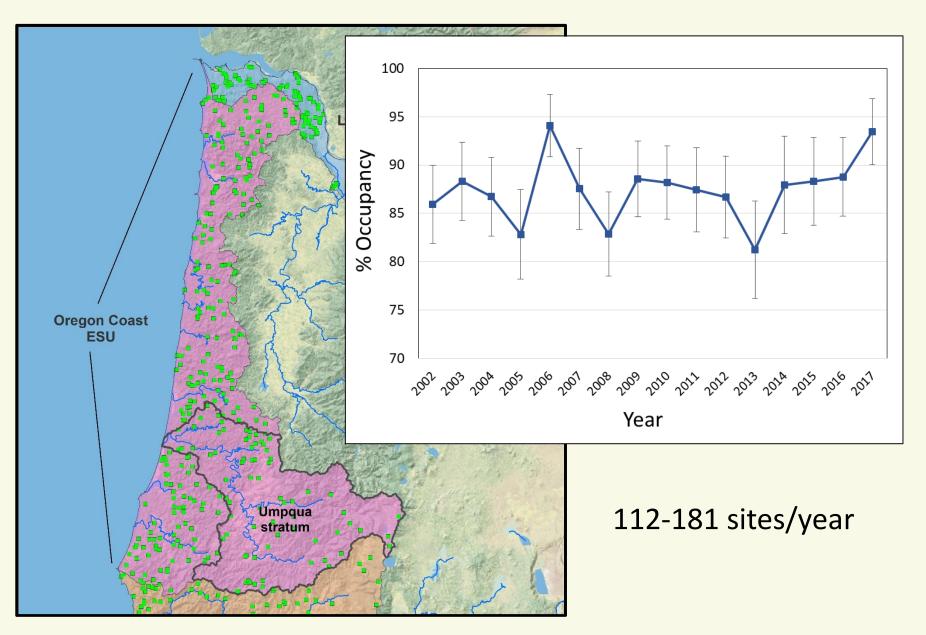


Western Oregon Rearing Project

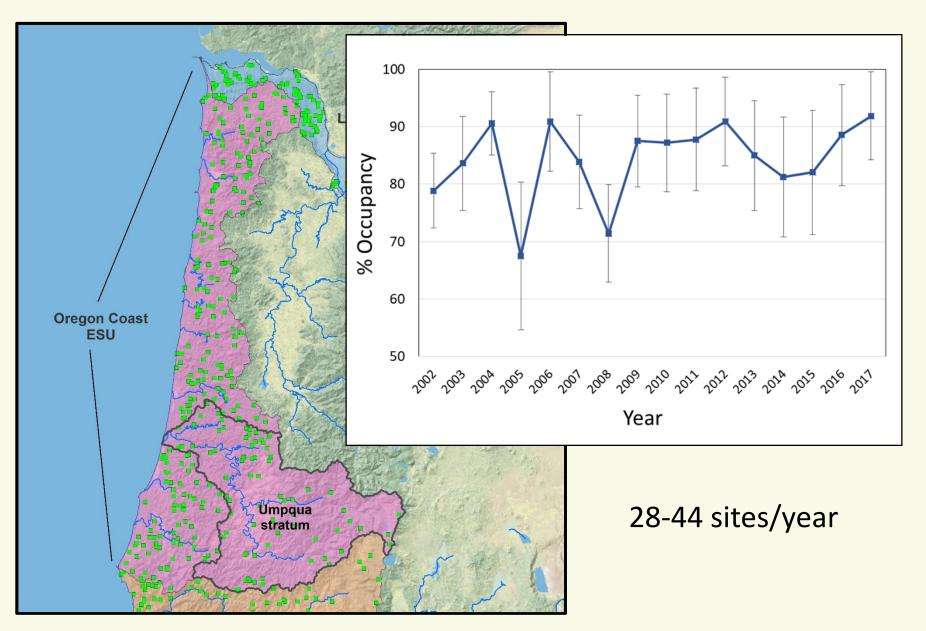


- Spatially balanced random sampling design
- Rotating panel of annual, 3year, 9-year and once-only sites
- Sites organized by Coho ESU, which correspond to CCT SMUs
- 1st-3rd order streams, although surveys were conducted in 1st-6th order streams in some years
- All pools within 1 km reach are snorkeled at base flows

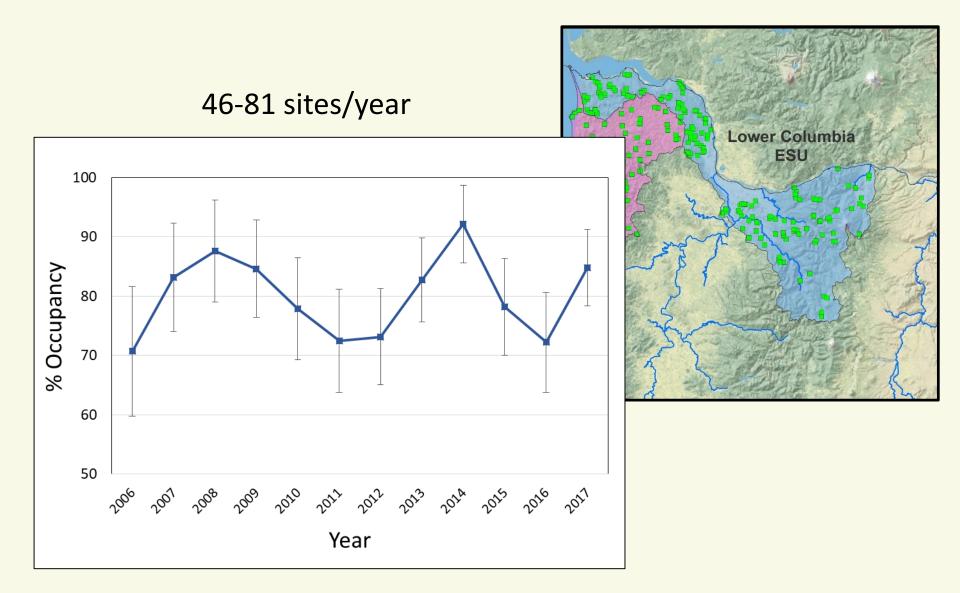
Oregon Coast CCT SMU



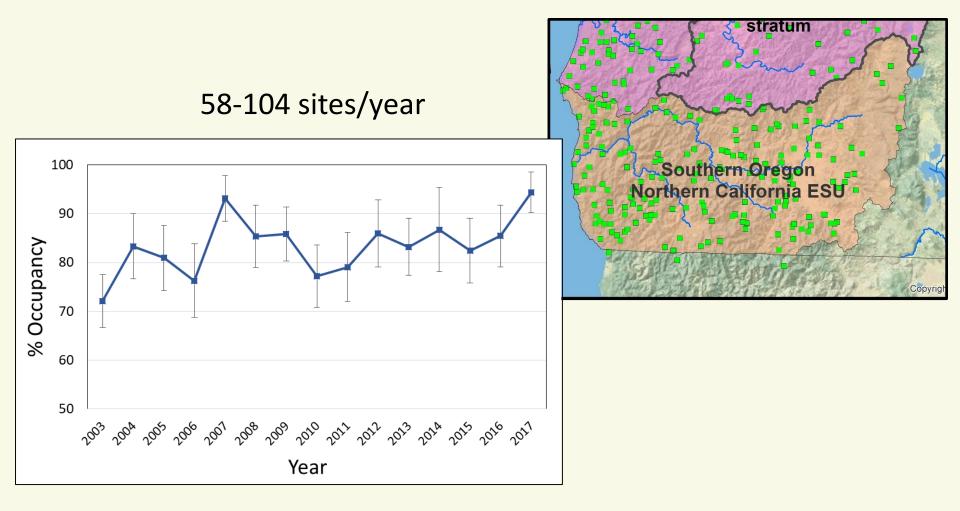
Umpqua Basin

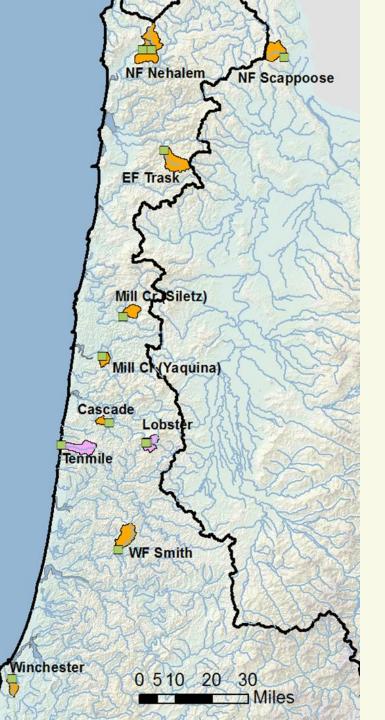


Lower Columbia CCT SMU



Southern Oregon CCT SMU

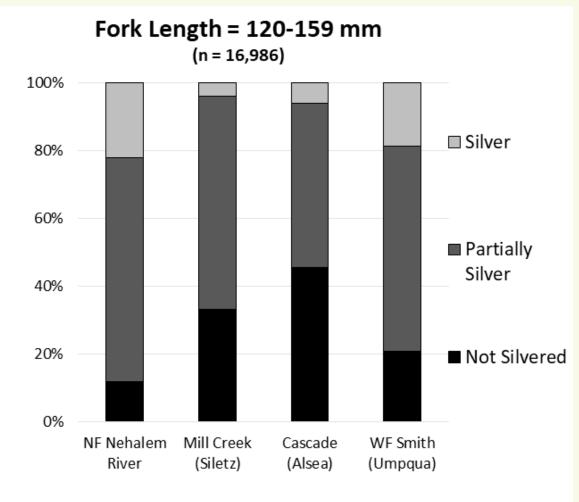




Life Cycle Monitoring Project

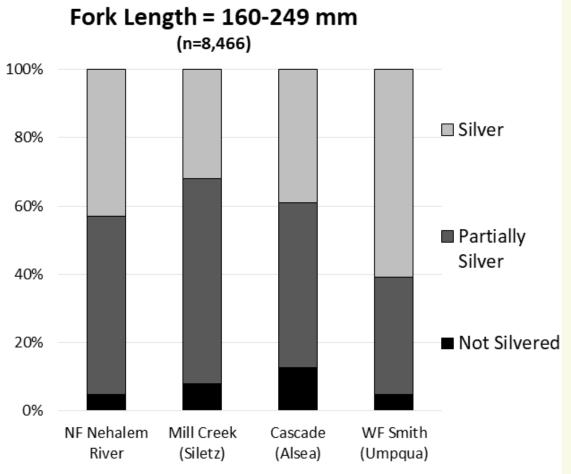
- Intensive monitoring sites with smolt and adult traps
- Continuous monitoring since 1998 at 6 coastal sites and 1 site in Lower Columbia
- Smolt trapping occurs from March-June and out-migrant estimates are made for all salmonid species
- Design of adult traps does not generally allow for complete count of adult cutthroat trout

Cutthroat Trout Out-Migrants





Cutthroat Trout Out-Migrants

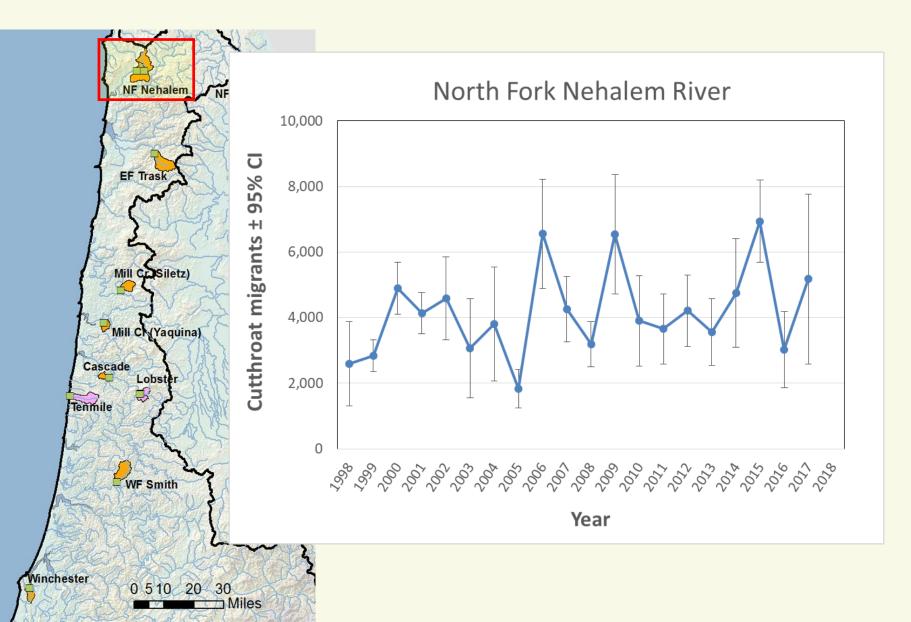




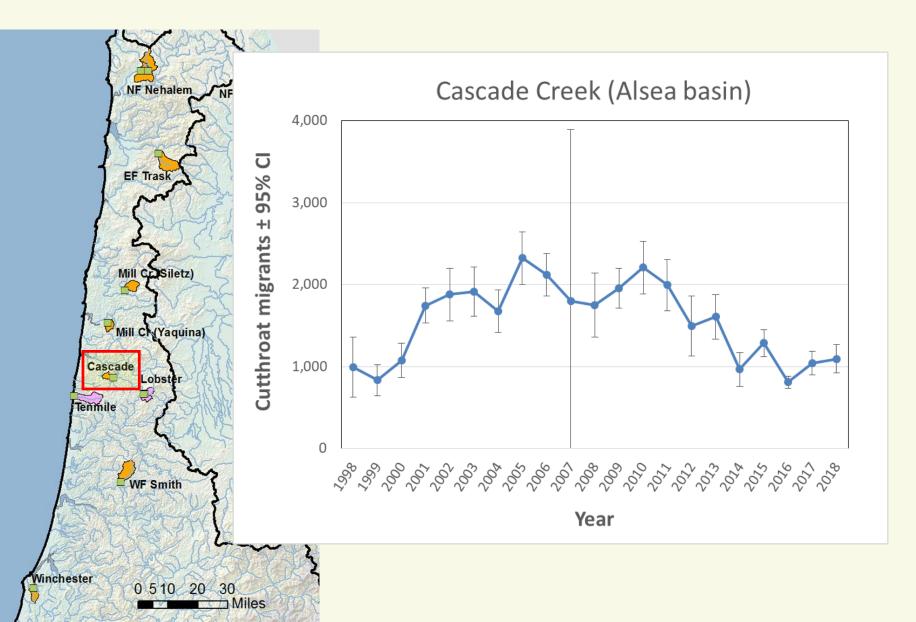


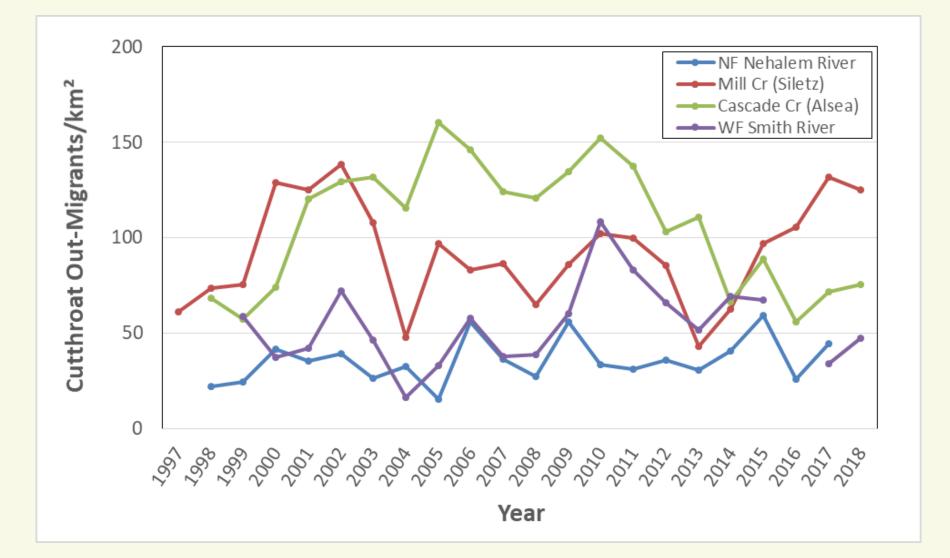


Cutthroat Out-Migrants (120-249 mm FL)

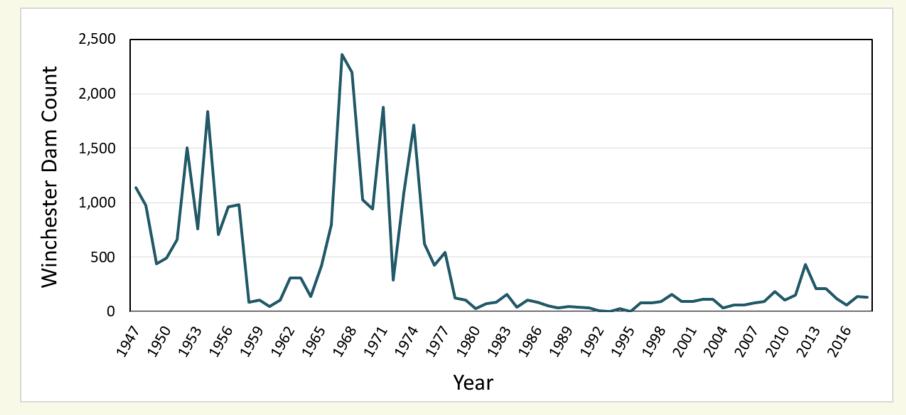


Cutthroat Out-Migrants (120-249 mm FL)



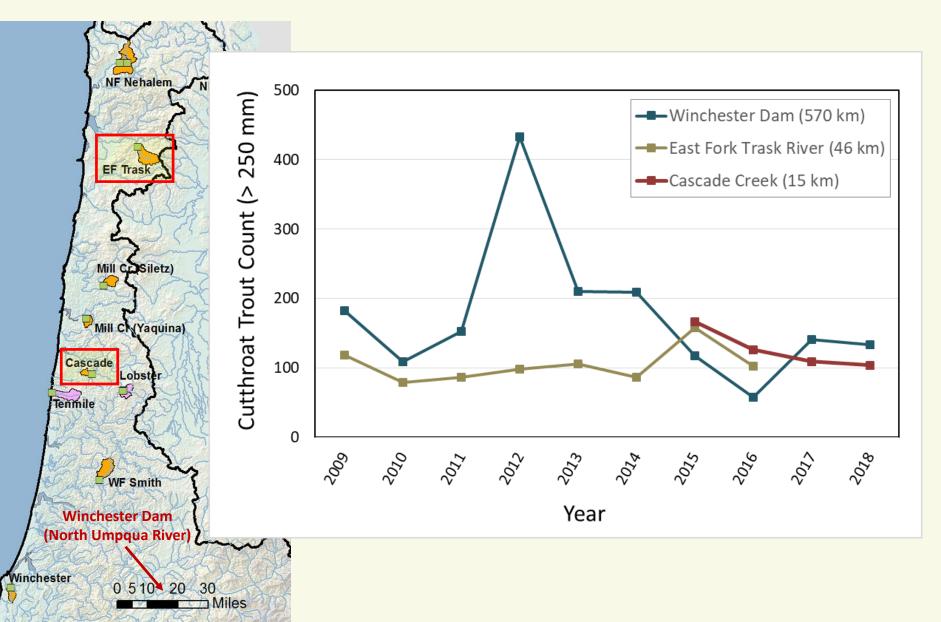


Sea-Run Cutthroat Trout Abundance

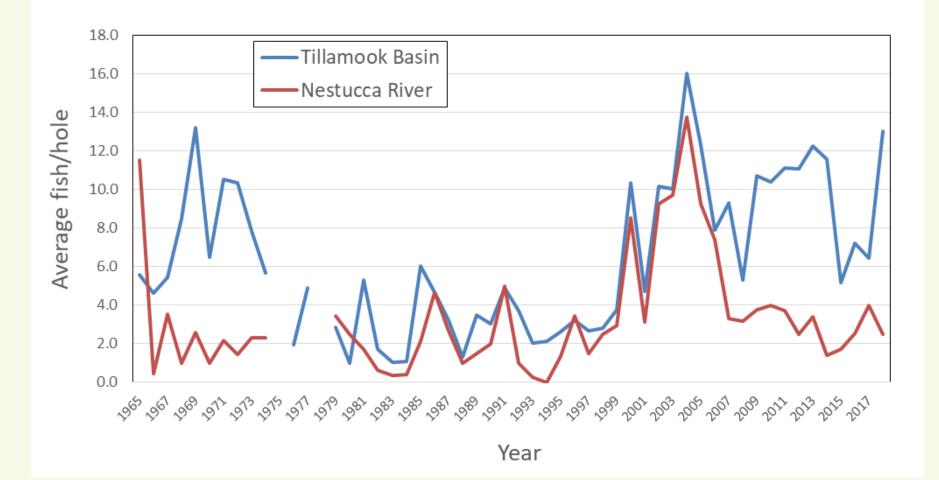




Sea-Run Cutthroat Abundance



Sea-Run Cutthroat Resting Hole Counts



CCT Management in Oregon

- Cutthroat trout considered in habitat altering activities, Oregon Forest Practices Act, fish passage
- Large number of habitat restoration projects with direct benefits for cutthroat trout
- No hatchery releases in streams
- Fishing regulations provide diverse angling opportunities and allow harvest where consistent with conservation goals
- MOU between ODFW and USFWS signed in 2005

History of Fishing Regulations

• <u>Pre-1980</u>

10 fish/day, 8 inch minimum length

• <u>1980-1997</u>

Late May-October 31: 5 fish/day, 8 inch minimum length November 1-March 31: 2 fish/day, 12 inch minimum length

• <u>1997</u>

Coast-wide catch and release during summer season Winter season closed End of hatchery releases in streams, previously 60,000-120,000 on central coast alone

• <u>2001</u>

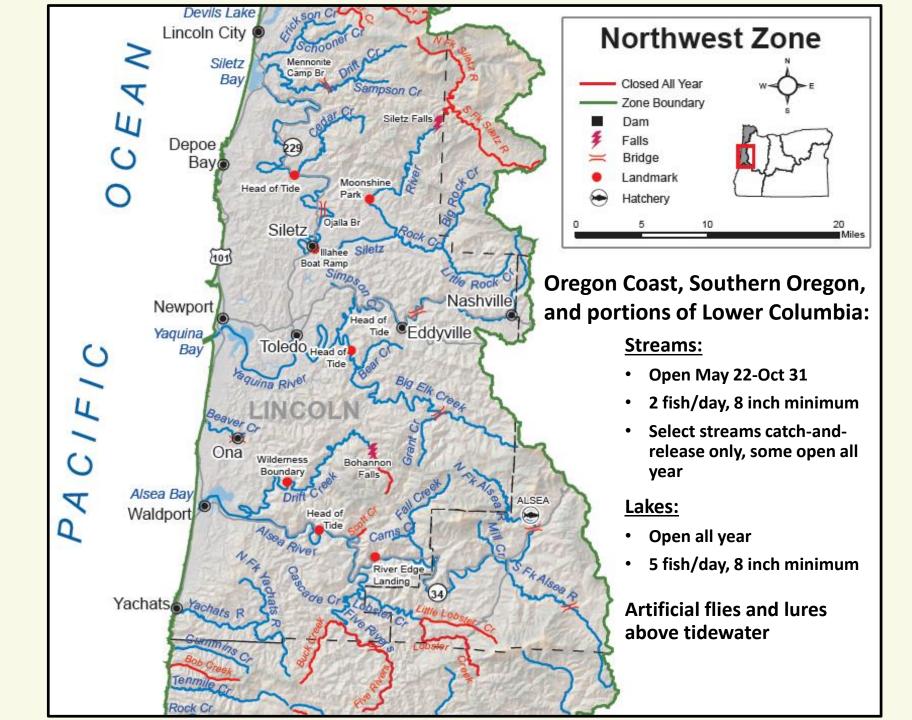
Central and south coast streams - Late May-October 31: 2 fish/day, 8 inch minimum North coast streams - catch and release during summer season

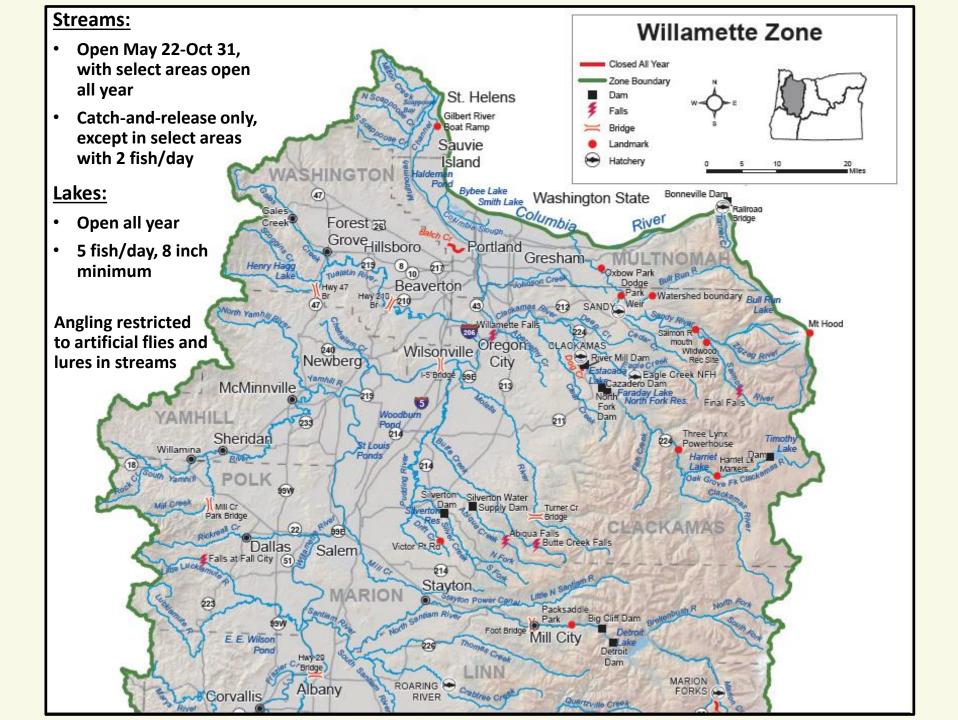
• <u>2009</u>

Coast-wide: Late May-October 31: 2 fish/day, 8 inch minimum length

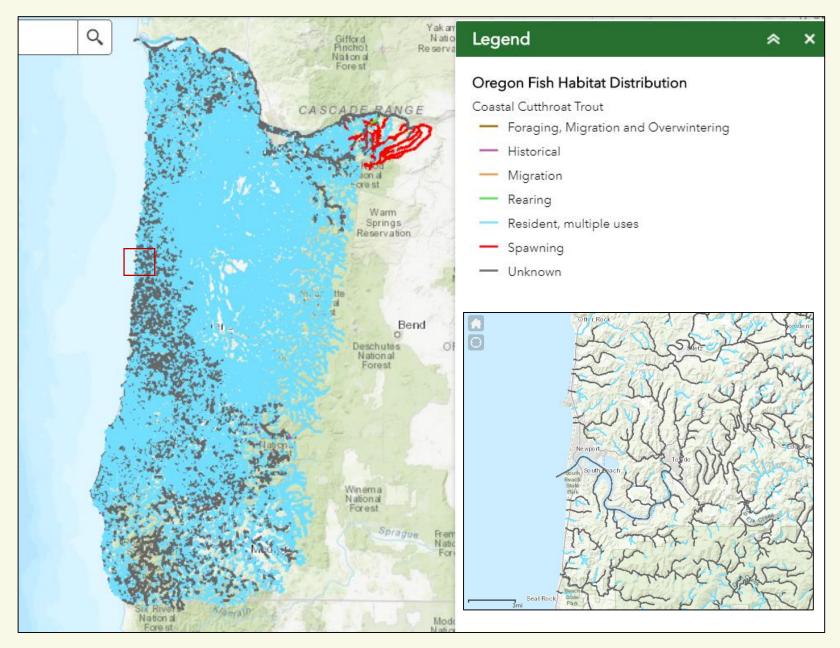
• <u>2014</u>

Coastal Multi-Species Plan: North and South Umpqua closed to retention, catch and release only





Oregon Fish Habitat Distribution Data



Conclusions

- CCT are abundant and occupy a high percentage of historical habitat in Oregon
- Multiple monitoring programs collect distribution or abundance data
- Fishing intensity is generally much lower than when hatchery programs were in place
- Willamette SMU has less systematic monitoring, but generally more restrictive fishing regulations
- Sea-run life history remains the biggest conservation concern and presents the most challenges for monitoring

Questions?

