Spawner Survey Introduction



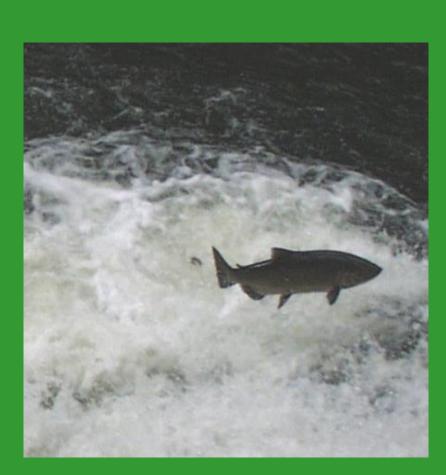


Ryan Jacobsen - Oregon Adult Salmonid Inventory and Sampling (OASIS)

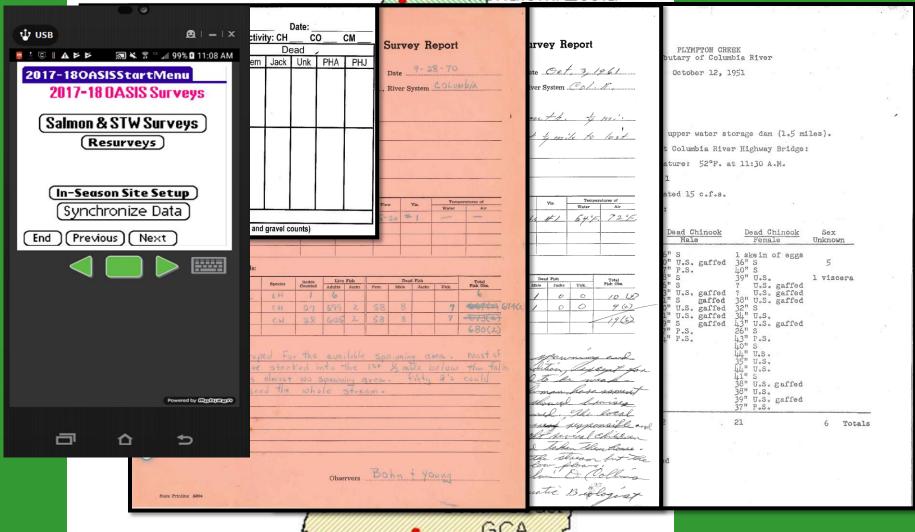
Alex Neerman - Lower Columbia Crew Leader

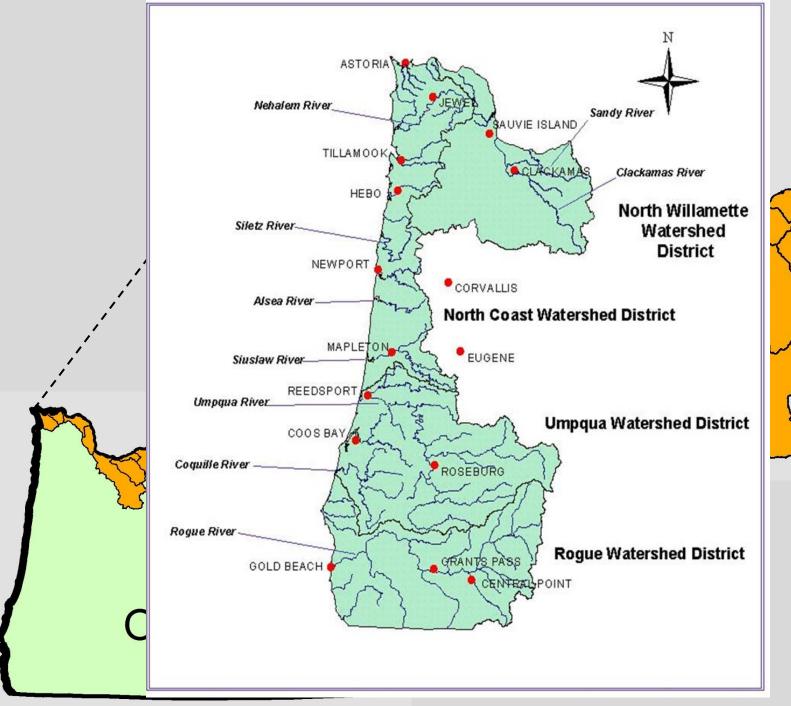
Training Objectives

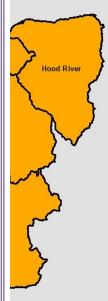
- Review Purpose of the Spawning Survey Program
- Describe field procedures
 - Survey Location
 - Typical Survey
 - Fish ID















The Oregon Plan Requires

Improved Monitoring to provide statistically rigorous data on the Status, Trend, and Distribution of Salmon Populations

Three Main Projects

Habitat - Aquatic Inventories Project (AQI)

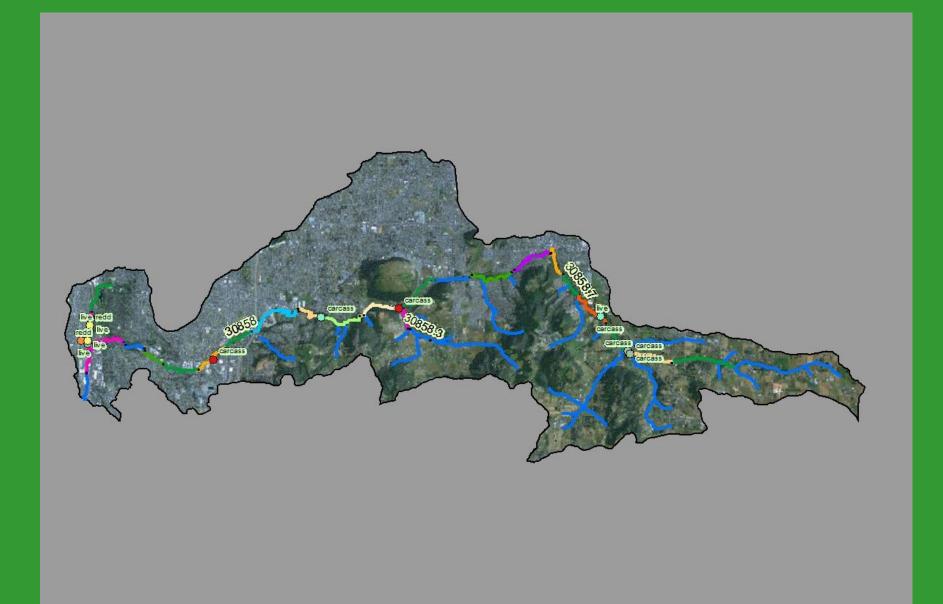
Juveniles - Western Oregon Rearing Project (WORP)

Adults - Spawning Surveys Project (OASIS)



Survey Organization

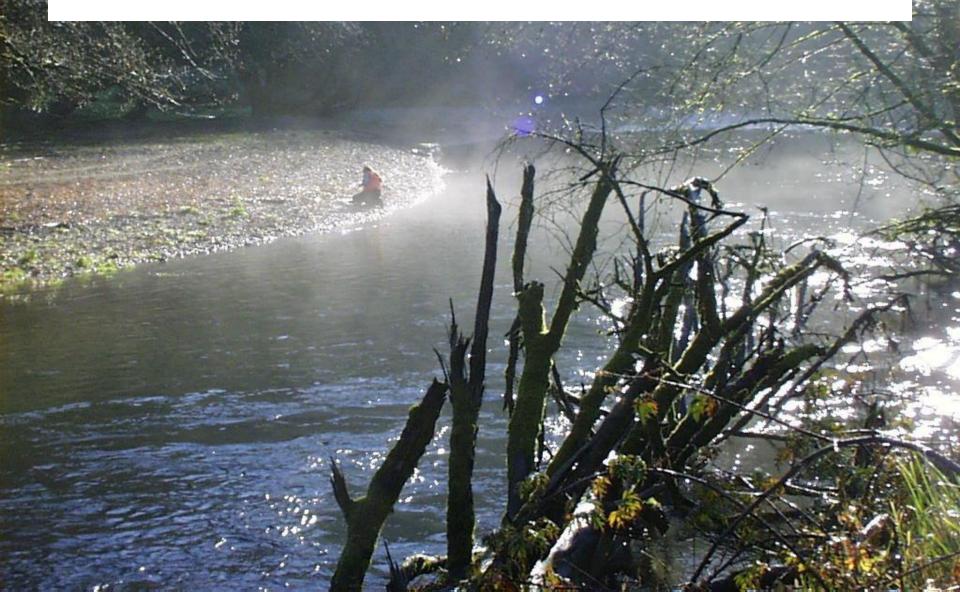
Reach ID 30000.00 Segment 1 Reach ID 39999.00 Segment 1 Reach ID 299 Gorge Lower Columbia ESU Big Creek Kilchis Youngs Bay Oregon Cost ESU Wilson Reach ID 20000.00 Segment 1



Desemble 1		Common Manage	V	Miles	Beaver Cr Segment Breaks Description	MiscComments
33395.00	_	SurveyName Beaver Cr	2003	0.46	From I-205 in Portland take Exit 19 (Hwy 26 / Powell Boulevard). Drive East on Hwy 26 8 mi to the junction with Burnside. Continue straight	A large Beaver Dam exists just upstream of the mouth of Kelly Creek. If this dam ever blows out - survey may be lengthened, extending downstream to the mouth of Kelly Creek. Singers (2035 Troutdale Rd) and Steueker (2205 Troutdale Rd) both denied, therefore shortening this segment considerably.
33395.00	2	BEAVER CR	2009		Never Surveyed. Multiple LO denials.	Denied at point. Landowner: Tamura
33395.30	1	Arrow Cr	0	0.65	Drive 9.8 mi on 212 to SE 282nd (Last light in town). Take left on 282nd drive 4.1 miels to bridge over Arrow Cr (this is the end point). Veer left on road which turns to SE Troutdale Rd and drive 0.6 mit os stop sign. House on left is start point (contact landowner). Survey upstream 0.85 mit o end point at bridge.	At the end of summer '05 all landowners but the last before the bridge had given the OK.
33395.70	1	Beaver Cr	2002	0.66	Take Division approximately 8-9 mi to 28100 SE Division, the Cothrell residence. No start sign posted, 2003 surveyors need to get GPS coordinates for start and post sign if Cothrells don't mind. Survey upstream to the confluence of North and South Fork Beaver Creek. End sign is on a right bank alder 10 meters downstream of forks. Exit up left bank through Strebin property 200 meters to road. Contact the Burns prior to each survey - dogs- (503) 661-9694.	New reach break @ Arrow Creek (start point.) ACW is about 4.5 meters with nice spawning gravel. No fish seen. Some habitat up both forks above end point. 1.1 meter step at private bridge. 1.1 meter vertical drop with good jump pool. A likely barrier at low and moderate flows. May be passage barriers downstream survey -Stark Rd. Fixed in Sept. 2002? Check on it October 2002.
33396.00		Beaver Cr, S Fk	2005		From mouth to forks (M Fk of S Fk of Beaver Cr). Was not fully setup in 2004 because Strebin at mouth could not be contacted.	

10/6/2010

Description of a Typical Survey



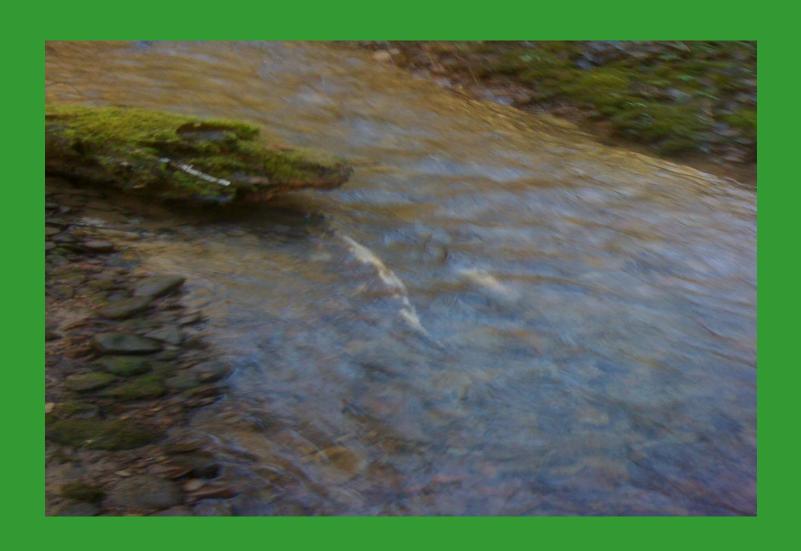
The basic idea

- Make sure you are on the correct stream and segment (many surveys, but not all will have signs, use GPS)
- Find your start point and survey upstream to end point
- During the survey count all live and dead fish
- Count all Redds
- Collect all carcasses and take them back to the council office
- Identify species, sex, and take biological samples [scales, snouts]
- Zero data point is valuable
 - -start and end of season [run timing]
 - -No fish seen throughout season



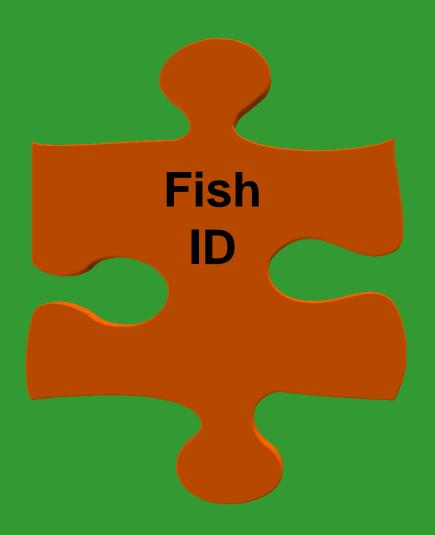


Without Polarized Sunglasses



With Polarized Sunglasses





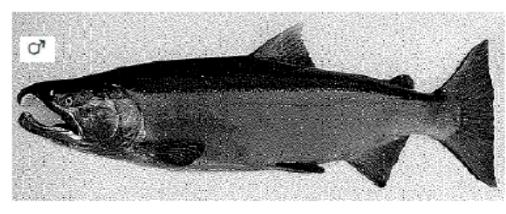
SALMON ID 101

- Run Timing (coho vs. stw)
- Basin Location (chum vs. coho)
- Size (chinook vs pink)
- Behavior
- Body Morphology
- Coloration
- Markings (spotting, gums, fin rays)

Salmon ID Card

Coho Salmon





- Rosy red operculum (gill plate)
- White spot above operculum (often only visible on live fish swimming in water). Not present on all fish, but not uncommon.
- Spots on back are generally smaller than pupil.
- No spots on lower lobe of tail & tail slightly "v" shaped.
- Tail has a discernible "ribbed" feel.
- Gums are white at base of teeth(can have splotches of black)



















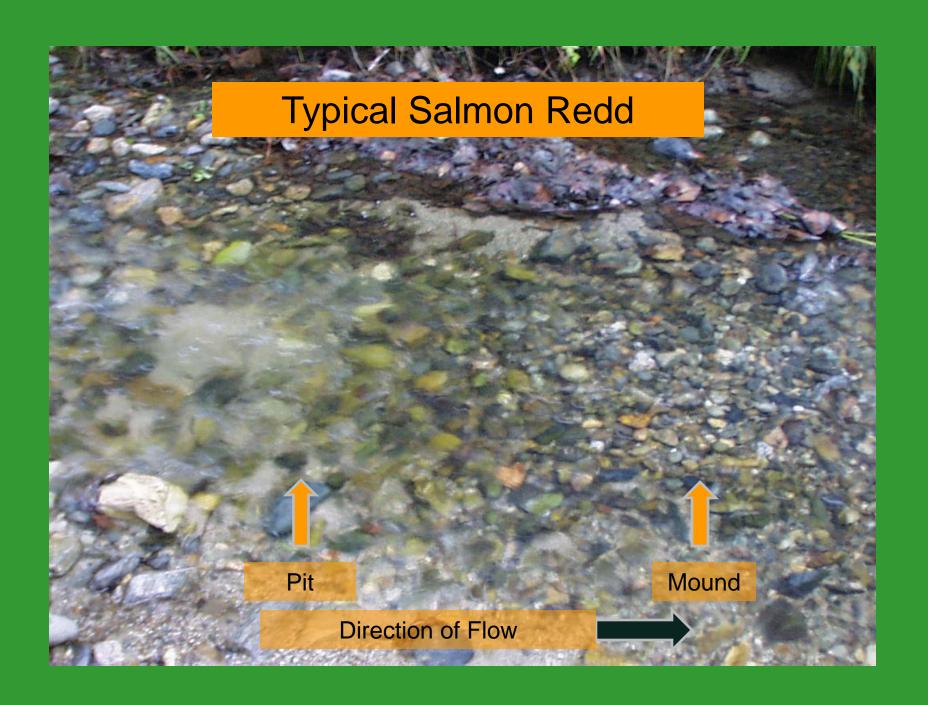




















The End