

Potential Chinook Juvenile Study

Smolt Survival
“Columbia River”

Chinook salmon

- Dr. David Welch, Kintama Corp.
 - David Noakes, Jessica Miller, Carl Schreck
 - OHRC, USGS, HMSC
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- OSU – IACUC/AUP approved
 - Contingent on funding (Kintama)

Chinook salmon

- Tagging and tracking juveniles as they move downstream
- Snake River – Columbia River – Pacific Ocean
- Hatchery and Wild – survival estimates
- PIT tags vs acoustic tags
- Freshwater and ocean survival and growth
- Tag loss

Research Outline

- Hatchery Chinook juveniles (ODFW) – OHRC - HMSC
- HMSC - study
- Hold in freshwater
- PIT tag, weigh & measure
- Acoustic tag, sham surgery
- Hold in freshwater – change water to marine

Research Outline

- Control – no tags, handling only
 - PIT tag only
 - PIT tag + sham surgery
 - PIT tag + dummy acoustic tag
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- Replicate groups for all treatments
 - Keep 2 groups in freshwater, change all others to saltwater

Research Outline

- Monitor: behavior, survival, growth, swimming ability (sustained swimming), physiology (cortisol)
- Discussions ongoing with Dr. David Welch – Research Proposal will come to OHRC Advisory Committee if funding is forthcoming