

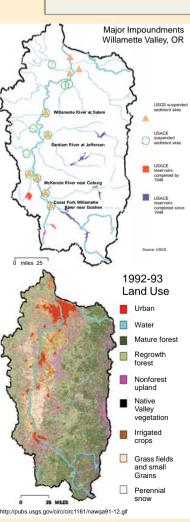
Distribution of Native and Invasive Crayfishes in Oregon's Willamette Valley: **Exploring Relationships Between Invasive Crayfish and Bullfrogs**

Brett A. Hanshew, Tiffany S. Garcia

Department of Fisheries and Wildlife, Oregon State University, Corvallis OR

Hypotheses

- Interactions between anthropogenic disturbances negatively affect native cravfish
- Bullfrog predation upon native crayfish has facilitated invasion of exotic cravfish





Assumptions

· Bullfrogs are widespread and

Bullfrogs are effective cravfish

highly impacted, stemming from

agricultural and urban water use

predators in the Willamette Valley

• The Willamette Valley watershed is

present in permanent water bodies

Methods

- Field Survey Visual snorkel assessment 1.
- 2. TrappingLaboratory Behavioral Assays
- Individual 1.
- 2. Intra & interspecific agonism
- 3 Mesocosm predation
- assessment
- GIS Modeling
 - Develop range maps for 1. cravfish and Bullfrogs

Predictions

- Signal Cravfish distribution is a function of habitat complexity
- Red Swamp Cravfish will be better at colonizing and defending habitat than Signal Cravfish
- Bullfrog predation disproportionately affects Signal Cravfish







Poster presented at the First International Conference on te Cgoui Frog, Feb 7-9, 2008, Hilo, HI