



Rathdrum CAMP Scenario

April 16 2010

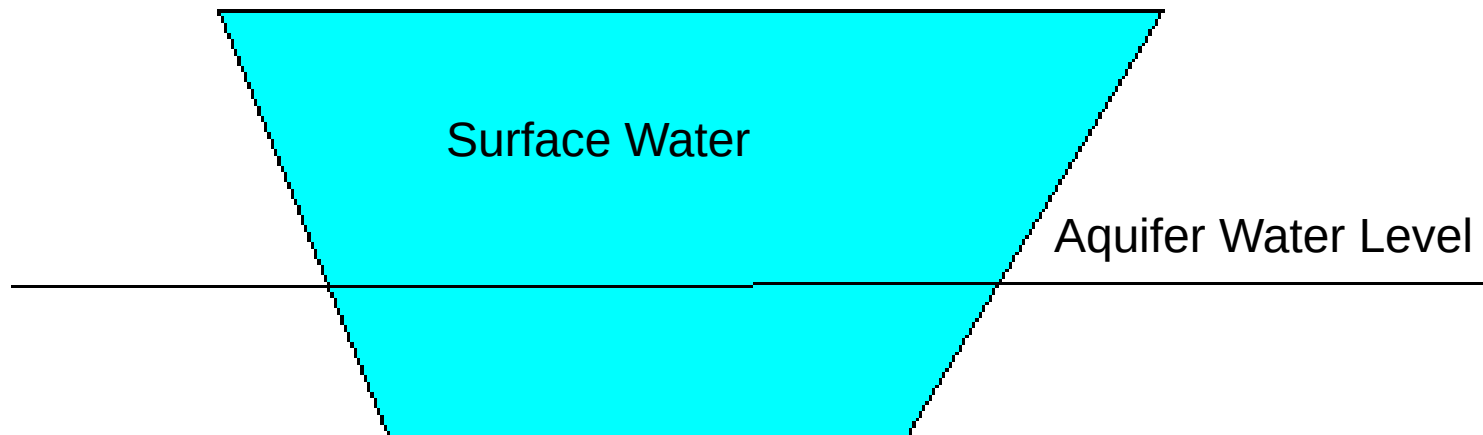
Allan Wylie IDWR



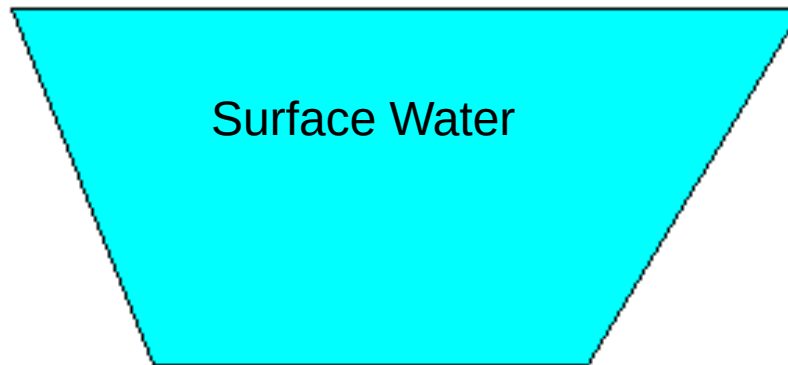
Rathdrum CAMP Scenario

- Evaluate Impact of expected water use in 2060 on Spokane River
 - SPF average (scenario 2) projected water use for 2060
 - Extract water use for last year of model in Idaho
 - Hold water use constant in city of Coeur D' Alene
 - Increase water use outside city of Coeur D' Alene until matches projected 2060 use
 - Run model extracting impact on Spokane River
 - For completeness also extract impact on other hydraulically connected surface water bodies
 - Lake Pend Oreille
 - Lake Coeur D' Alene
 - Little Spokane River

Hydraulically Connected



Not Hydraulically Connected

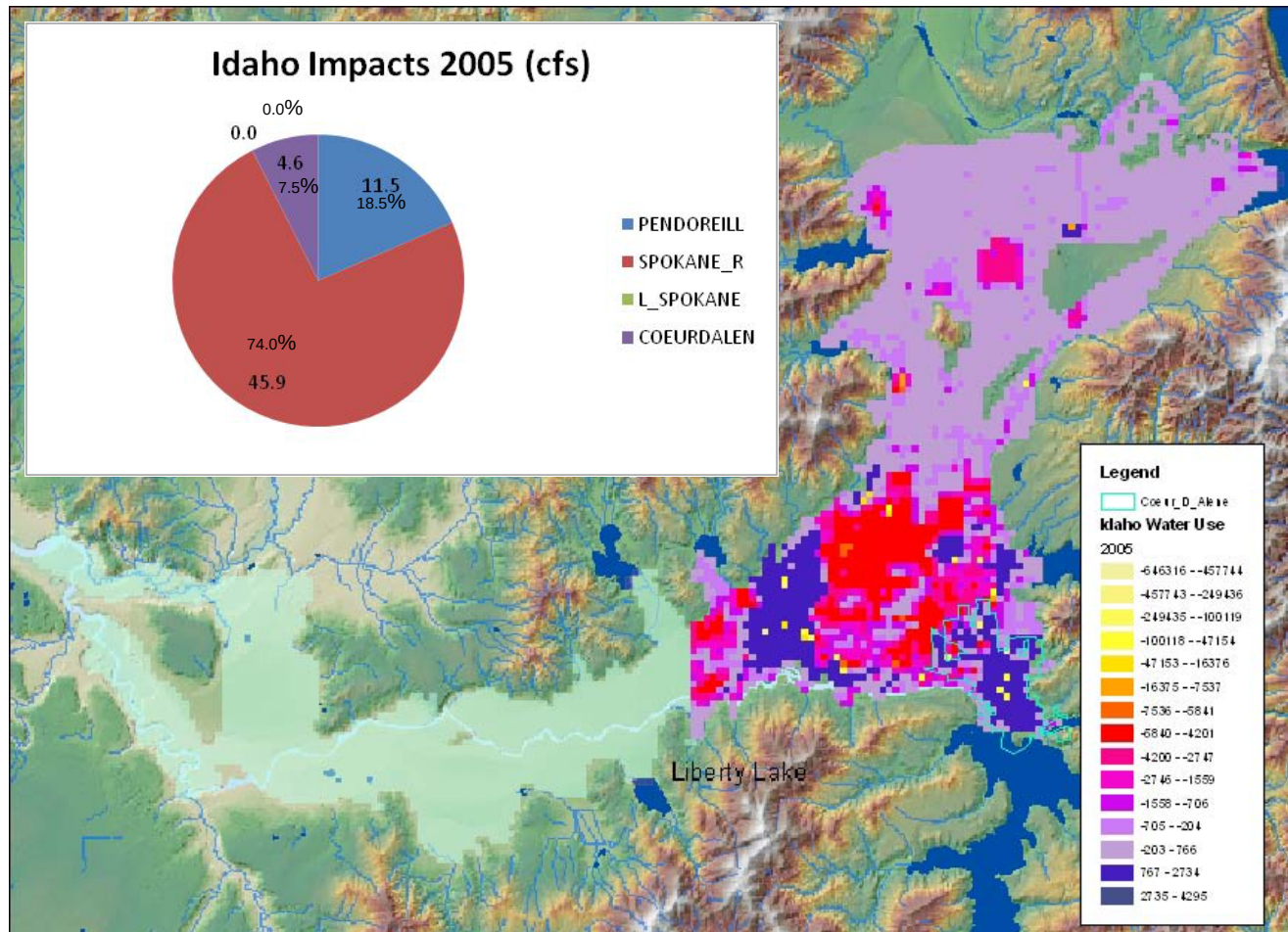


Aquifer Water Level

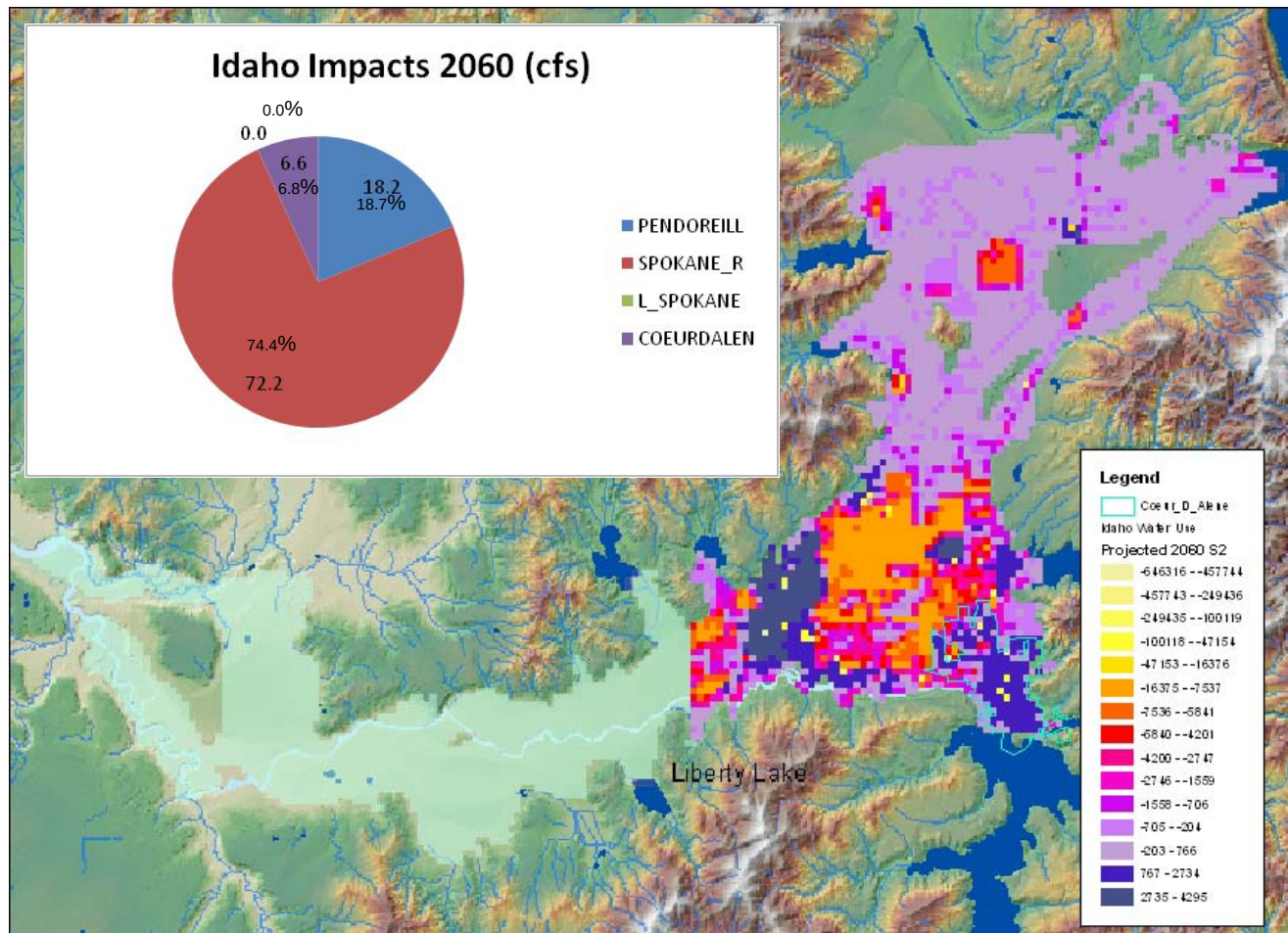
Response Functions

- Assume water is an incompressible fluid
- Add water to aquifer
 - Aquifer water level increases
 - Slows leaky hydraulically connected surface water bodies
 - Increases gains if aquifer level is greater than surface water body
- Pump water out
 - Aquifer water level decreases
 - Increase leaky hydraulically connected surface water body
 - Decrease gains if aquifer level is greater than surface water body

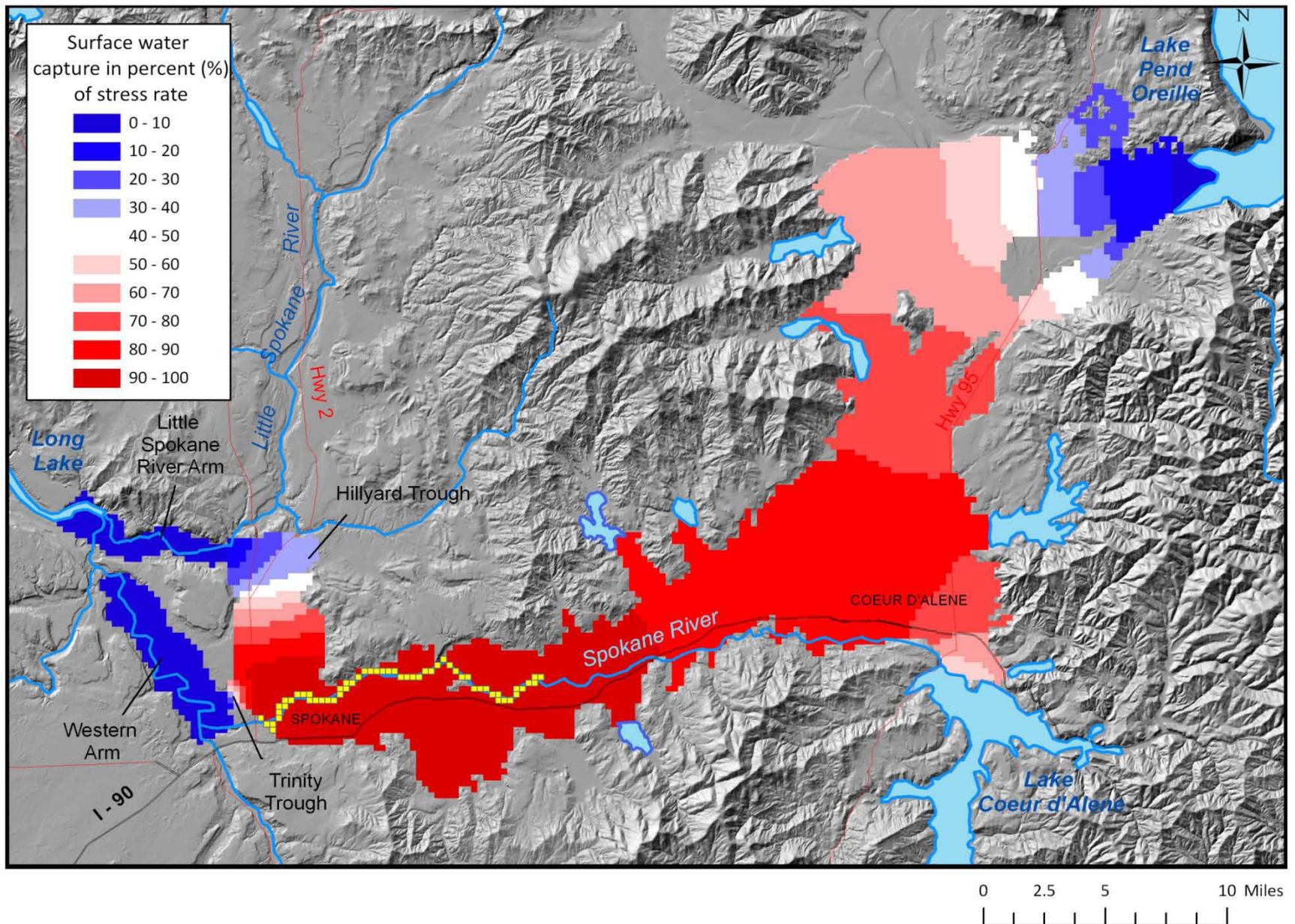
Idaho Water Use 2005



Idaho S2 Water Use 2060



River Reach: Spokane River above the Spokane Gage





END

