Rathdrum CAMP Scenario

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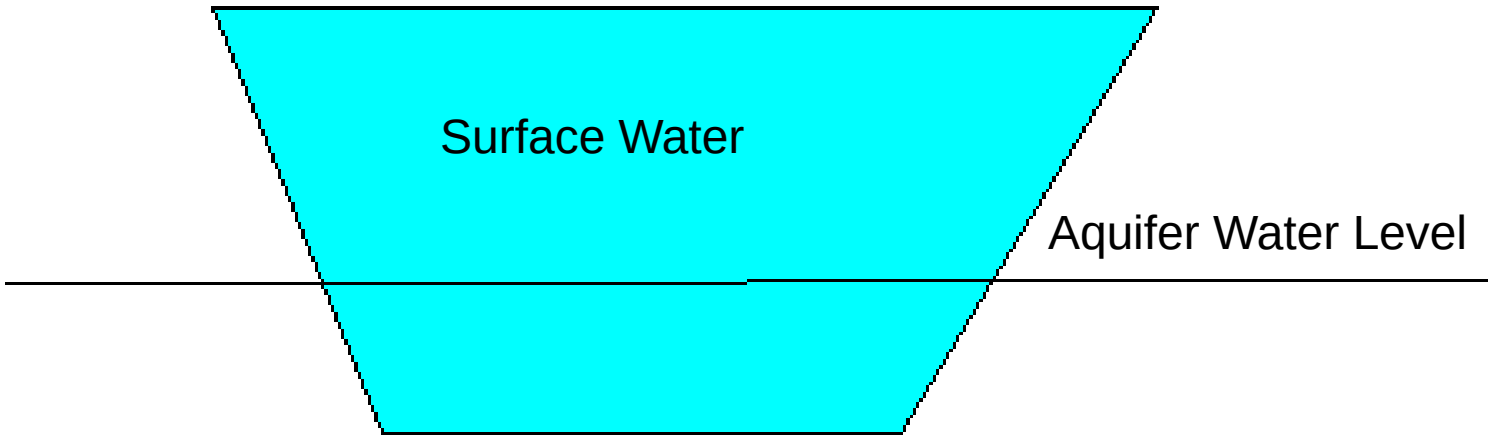
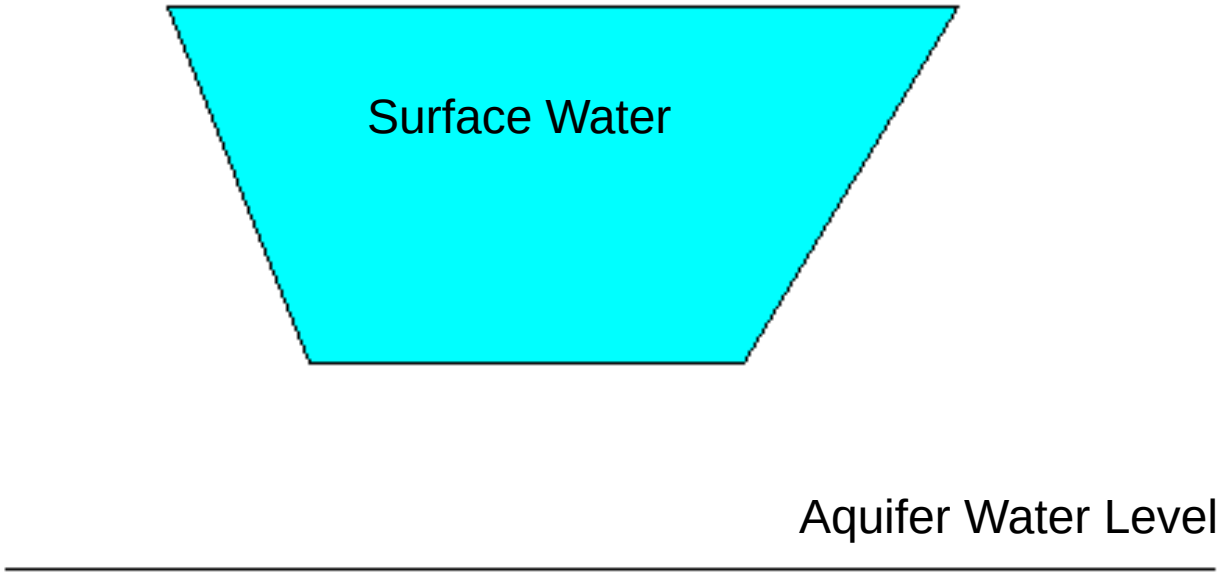
Rathdrum CAMP Scenario

- 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 Orelle
      - Lake Coeur D' Alene
      - Little Spokane River

Hydraulically Connected



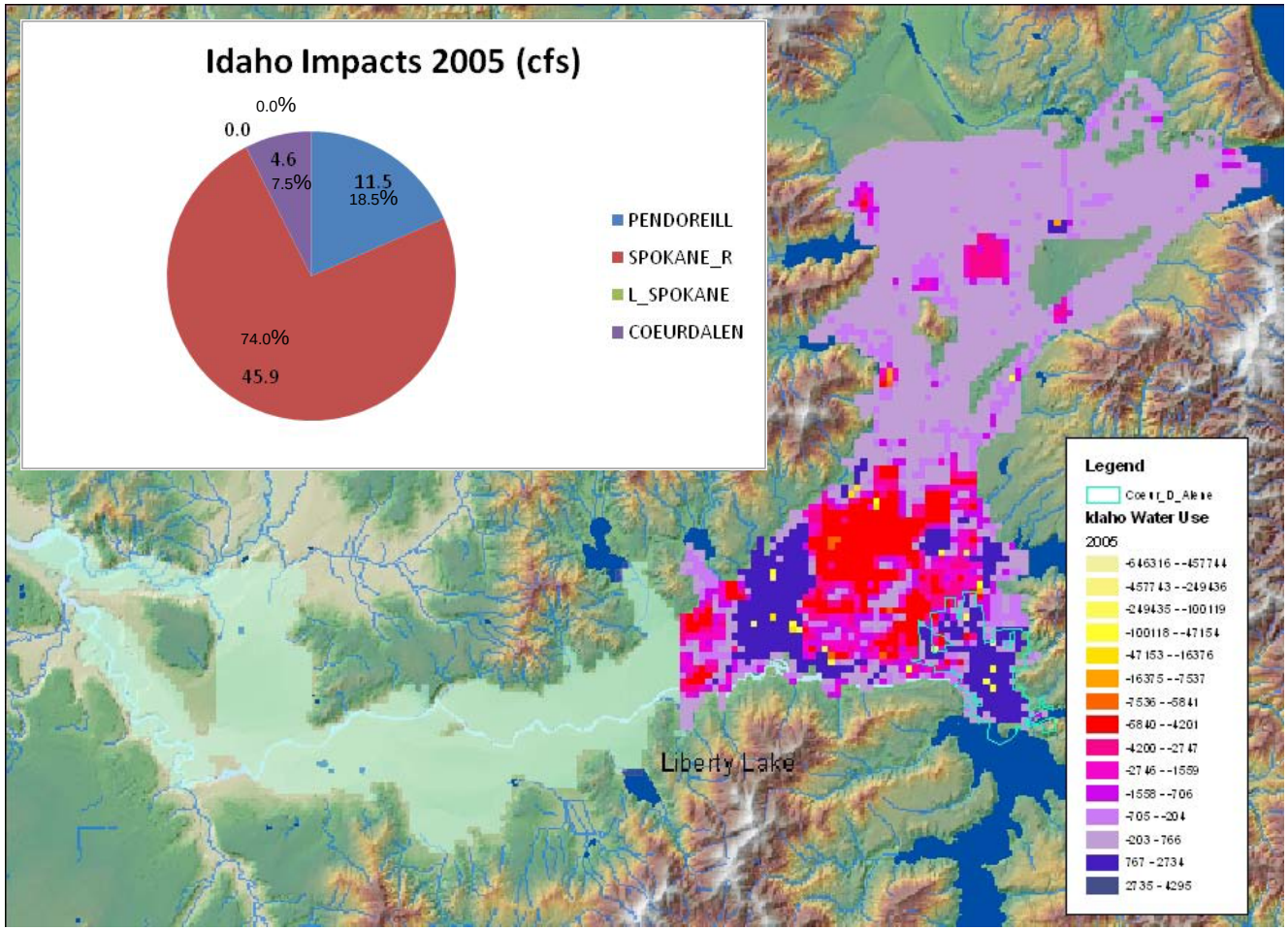
Not Hydraulically Connected



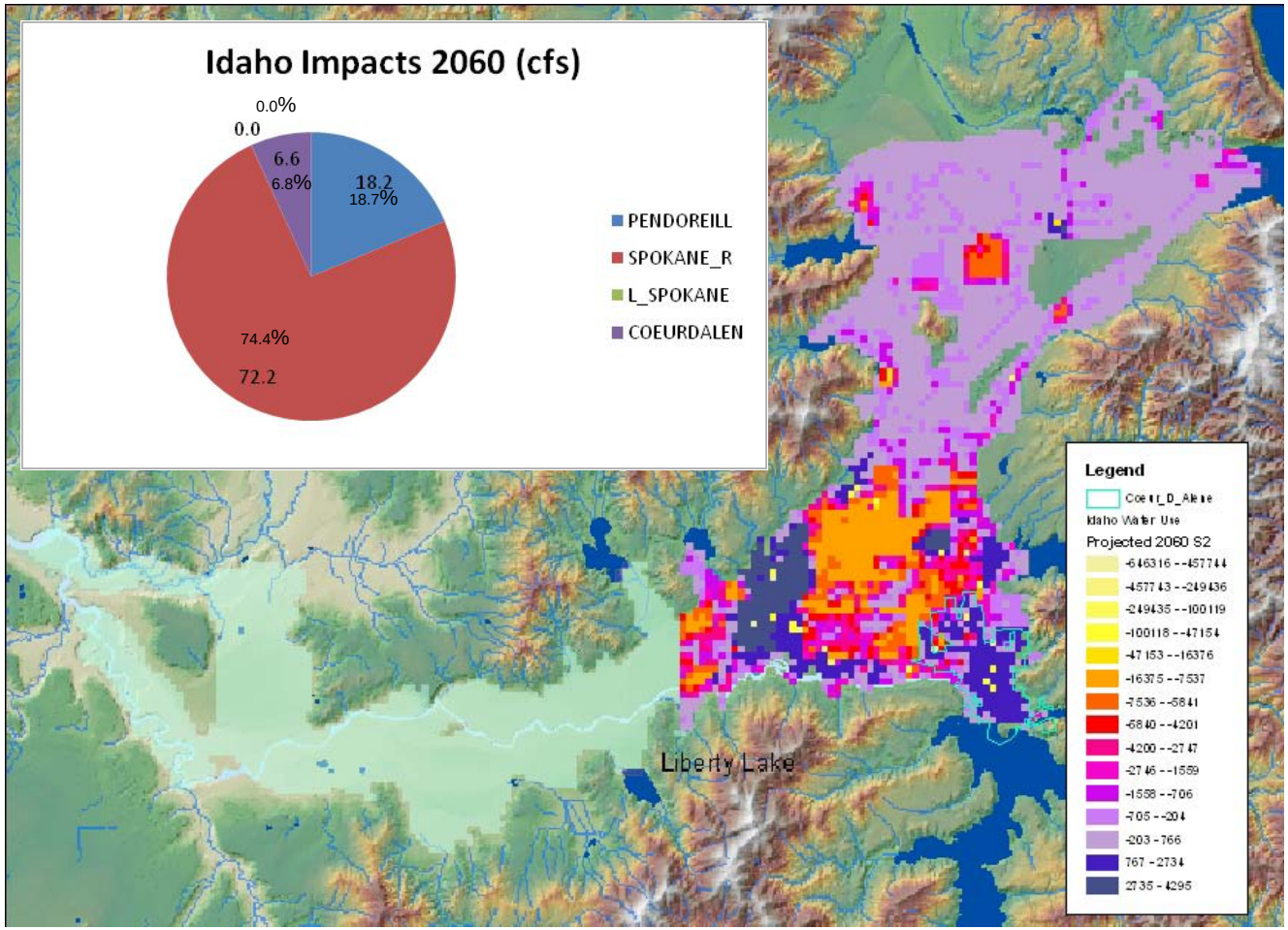
Response Functions

- 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

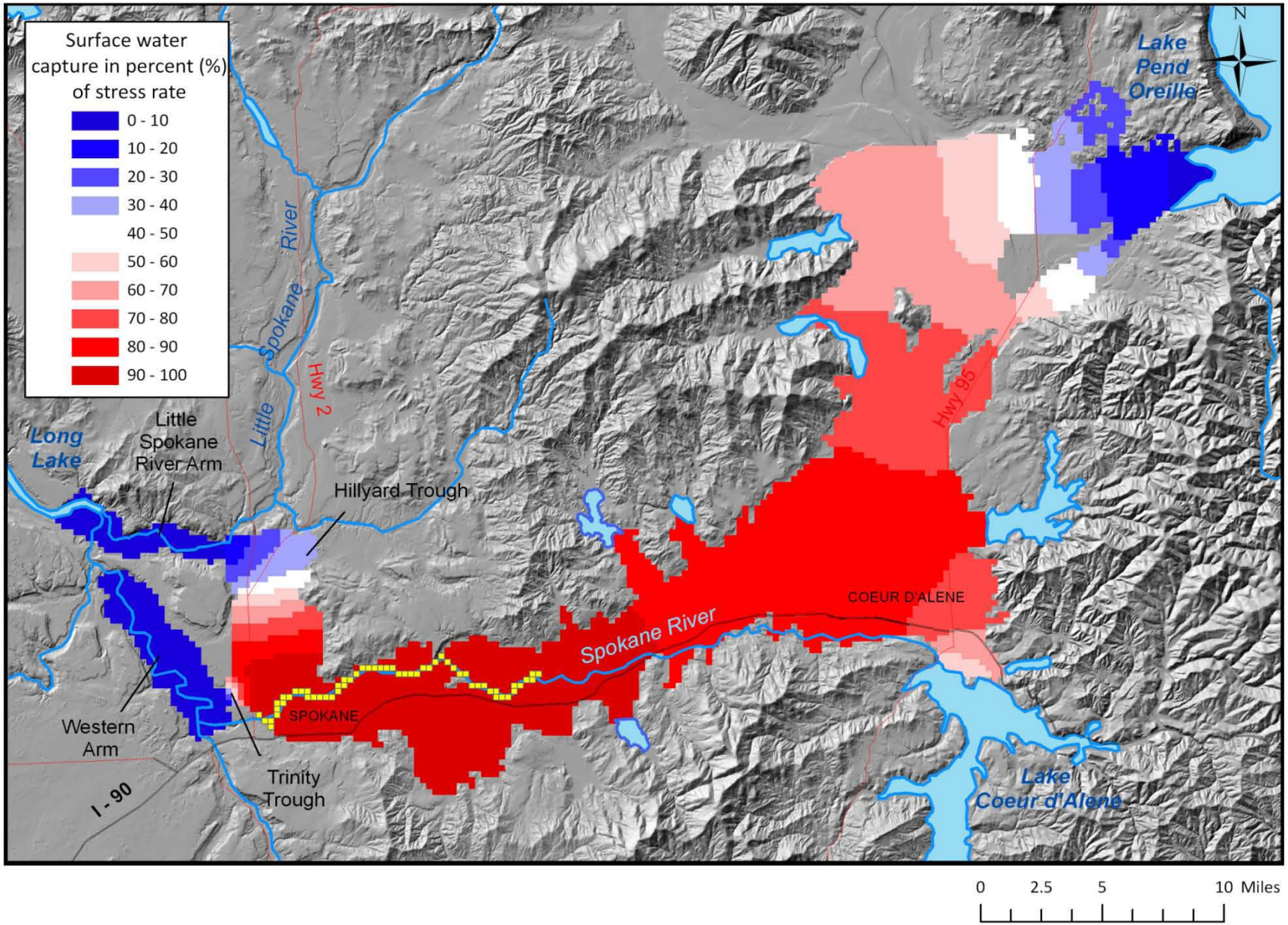
Idaho Water Use 2005



Idaho S2 Water Use 2060



River Reach: Spokane River above the Spokane Gage



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