



# Calibration Flow Diagram

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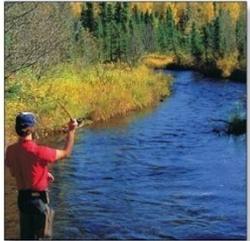
Presented by Allan Wylie, IDWR

Date February 6, 2014



# Outline

- Adjustable parameters
  - Anything estimated
- The “Model”
- Flow diagram

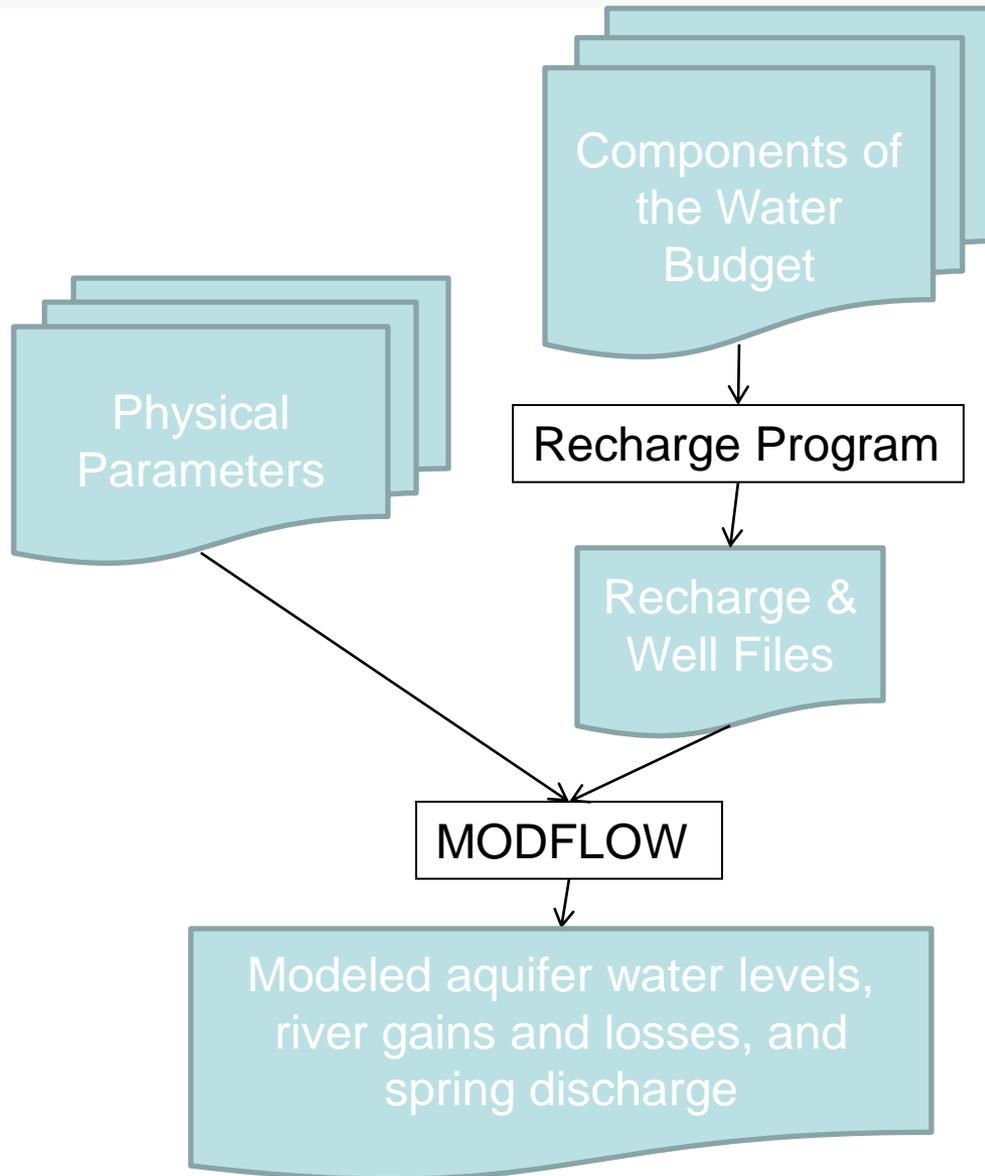


# Adjustable Parameters

- Physical properties
  - Hydraulic conductivity and transmissivity
  - Specific yield and storage coefficient
  - Riverbed conductance
  - Drain conductance
- Input into groundwater flow model
  - MODFLOW input files

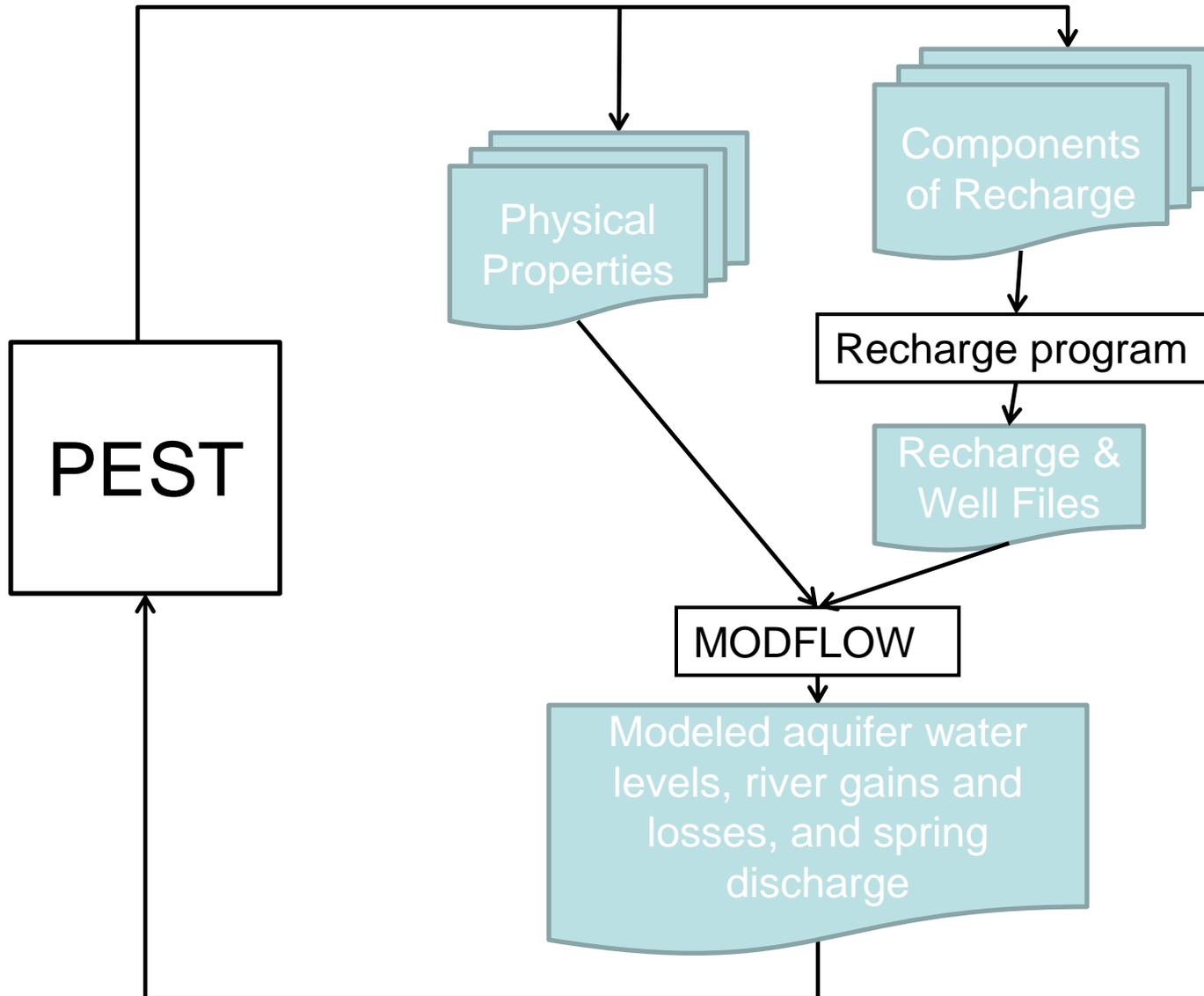
# Adjustable Parameters

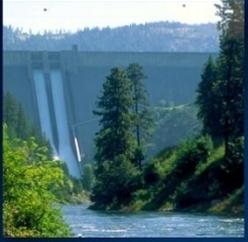
- Components of the water budget
  - Recharge on non-irrigated land
  - Evapotranspiration
  - Tributary underflow
  - Canal seepage
- Input to recharge program
  - Recharge program output is input to MODFLOW
  - Recharge and well files



# Calibration Tool

- PEST
  - Compares model output with observations
    - River aquifer interactions
    - Spring discharge
    - Water levels in wells
  - Objective is to minimize difference between modeled and observed values
  - Prepares input files
    - MODFLOW
    - Recharge Program





End