ITEMS TO COVER

- PARADIGM CHANGE
- GUIDING PRINCIPLES
- OVERALL GOAL
- GENERAL DECREE REQUIREMENTS
- MECHANICS OF DECREE IMPLEMENTATION
PARADIGM CHANGE

- C.R.S. 37-92-308 (effective 2003)

PRE – 2003
- If well can replace out-of-priority (OOP) depletions, no authority to curtail even if not in approved plan

POST – 2003
- If well not in approved plan, must curtail if OOP depletions
GUIDING PRINCIPLES

- Follow Priority System
- Maximize Beneficial Use
- No Injury
- Follow Decree Provisions/Intent
OVERALL GOAL

- Match accretions to OOP depletions to prevent injury to senior rights
  - Legal Constraints
    - Decree requirements
    - Decree allowances
  - Physical Constraints
    - Well locations
    - Available replacement sources
    - Available recharge site locations
Depletion Calculations
- Assumed Consumptive Use
- Presumed Depletion Factor

Depletion Timing Calculations
- Analytical
- Numeric
GENERAL DECREES

REQUIREMENTS - ACCRETIONS

- Accretion Calculations
  - Recharge area mass balance
  - Residual is recharge amount
- Accretion Timing Calculations
  - Analytical
  - Numeric
- Un-written policy – Depletion and Accretion timing use same method
Projection of Accretions and Depletions
- Length varies from 1 to 7 years
- Assume dry year replacement supply yield
- Assume no additional recharge
- Assume continuous call senior to wells for most areas
MECHANICS OF DEGREE IMPLEMENTATION - Field

- Need Communication with Water Commissioner
- Need Accurate Structure Locations
- Need Accurate Measuring Devices
- Need User Friendly Recorders
- Need Communication with Water Commissioner
MECHANICS OF DECREE IMPLEMENTATION - Accounting

- Communication with Staff
- Follow Decree Requirements
- Number of Plans Requires Electronic Submittal
- Need Actual Spreadsheet to Verify Calculations
- Notify of Changes
- Must Have Common Sign Convention
- Protocols on Web Site
QUESTIONS?

(Big Thompson River near LaSalle)