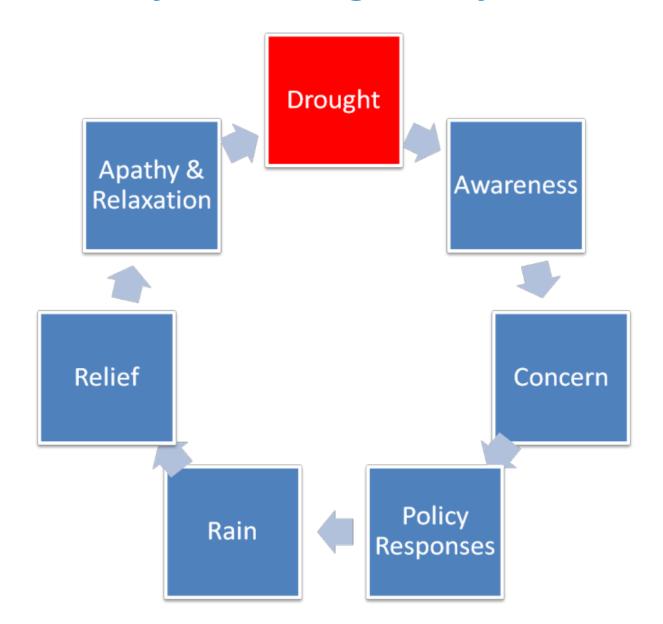
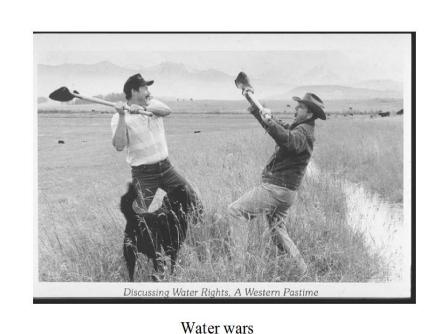
Sustainable Ground Water Management Dr. Jeff Loux UC Davis Extension



Hydro – Illogical Cycle



Water Management today has changed





The "new" water sources of the have changed



Complex and Integrated Portfolio Water Management

Surface Supply

E Recycled Water

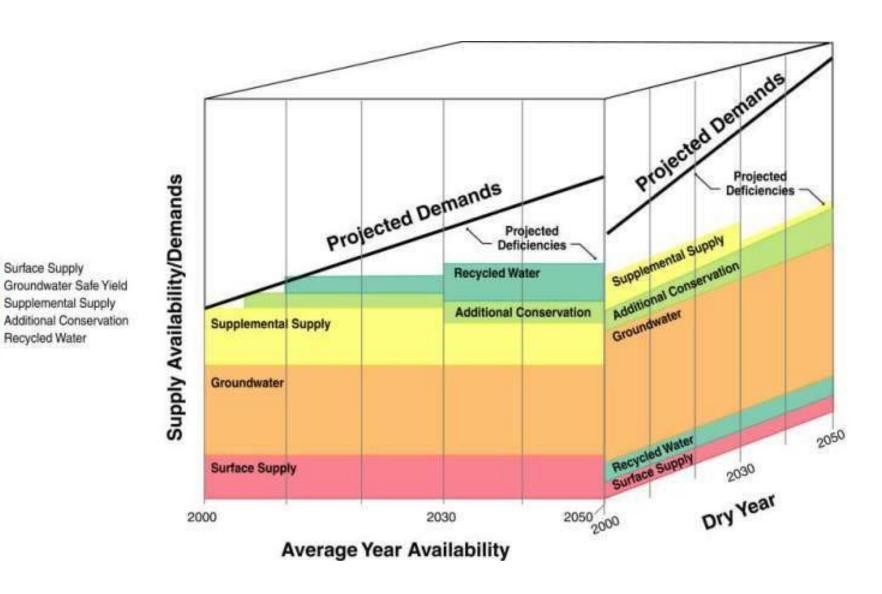
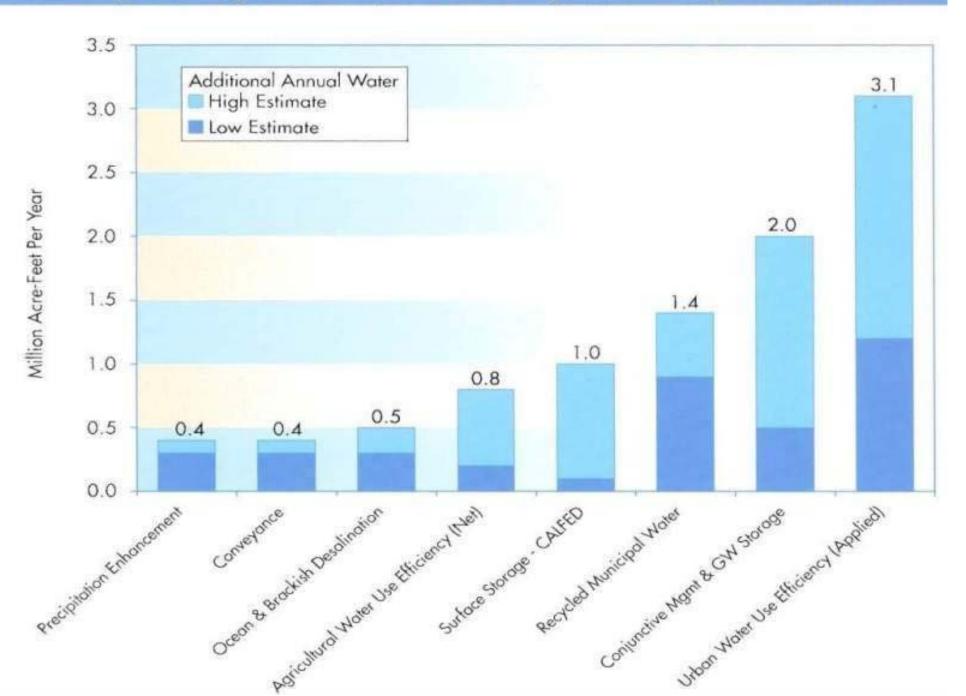
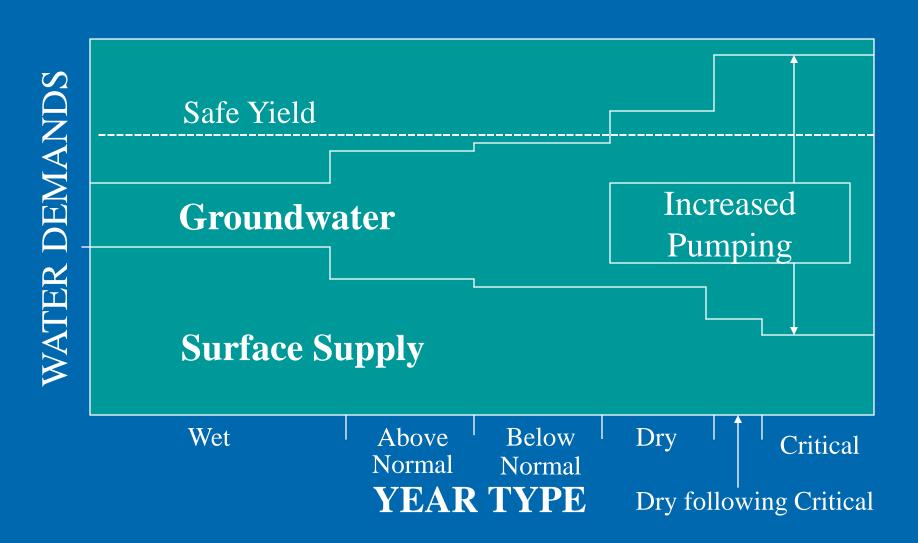


Figure 1-1 Range of additional annual water for eight resource management choices



Conjunctive Use of Surface and Groundwater



What should we do to manage ground water sustainably?

- ◆ Required ground water extraction and water level monitoring & reporting
- ◆Coordinated data management and modeling needs major investment
- ◆Expand/empower AB 3030/SB 1938 to allow for extraction limitation, develop templates and review at State, clarify storage rights and processes and make logical transfers easier
- ◆ Designate critical basins of Statewide interest; overdraft + impact + value
- ◆ Better link land use planning to ground water management

- Require ground water management plans in those basins of critical interest
- ◆ Leave it to local and regional agencies or collaborations to develop and implement, but with timelines and requirements from State
- ◆ Use a phased data driven, thresholds based approach, stakeholder driven, facilitated, but with timelines and milestones from the State
- ◆ Indemnify the losers insurance fund from rate payers, beneficiaries, State, Delta project?
- Follow Hanak, Lund et al. new State Mega-Water Agency with regional management, SWP as a public utility
- Much more transparency, public engagement in water supply and ground water



On the cover is the Chinese ideogram for "crisis," which is comprised of the characters for "danger" and "opportunity."