Treasure Valley Comprehensive Aquifer Management Planning

"Considerations for the Future of Water Management in the Treasure Valley"



Dave Tuthill, PhD, PE

July 30, 2010





Prediction...

Relative to water delivery in the Treasure Valley...

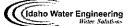


is coming between now and 2020

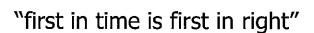


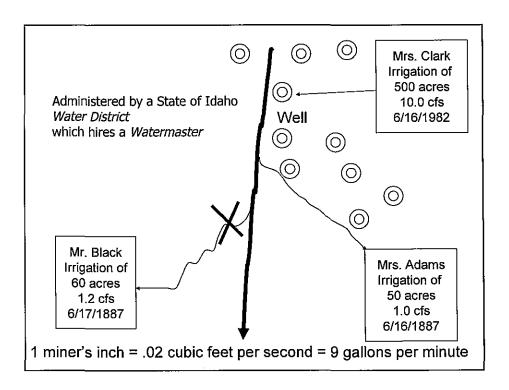
Outline

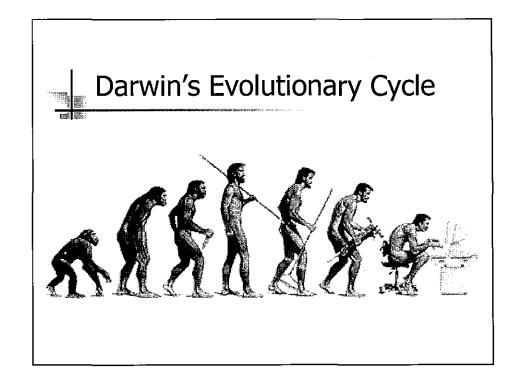
- Water administration basics
- Evolution of surface water management in the Treasure Valley
- Evolution of ground water management in the Treasure Valley
- Implementation of conjunctive administration
- Rapid advances in technology
- How we can deal with change

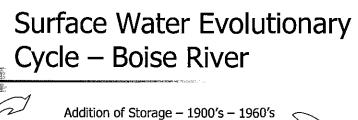


In Idaho the appropriation doctrine is used for the delivery both surface water rights and ground water rights—









Addition of Storage - 1900's - 1900's

Initial Water District - 1923

Instream Requirements - 1980's

Initial Decrees – 1906 and 1929

Rental Pool - 1990's

Initial Diversions - 1865



Surge of Supplemental Wells - 1977

Initial Irrigation Wells - 1940's

Initial Municipal Wells - 1890's

Initial Domestic Wells - 1860's



Problem

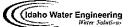
Water deliveries must consider connections between ground water and surface water (conjunctive administration) if fair delivery is to be achieved





Additional Drivers of Change

- Increased efficiencies of irrigation have led to reduced deep percolation
- Increasing urbanization
- Increased recognition of instream values
- Water needs for energy production
- Impacts of climate change?
- A need to coordinate land use planning with water use planning



Implementation of Conjunctive Administration



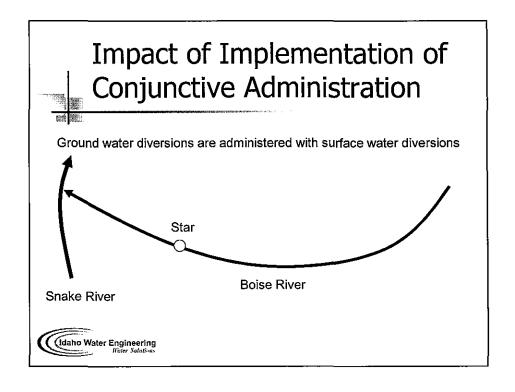
All but 100 recommendations resolved April 22, 2010

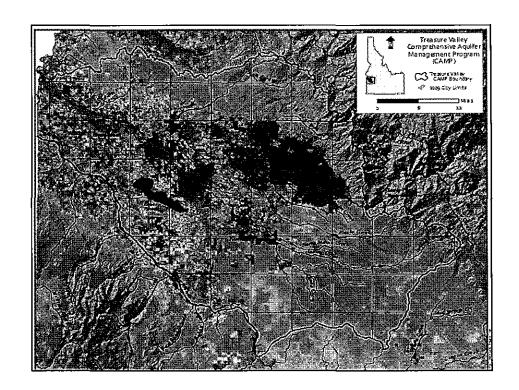
Recommended water rights in Basin 63: 13,000+ domestics 6,000+ non-domestics

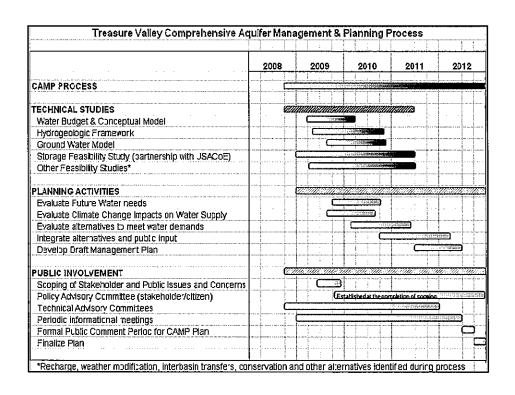
Basin poised for Implementation of Conjunctive Administration

Snake River Basin Adjudication initiated in 1987

Creation of water rights from surface water and ground water

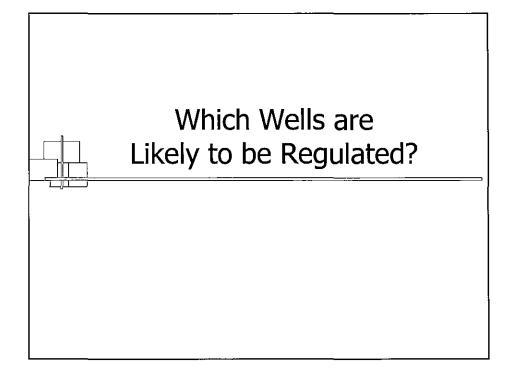


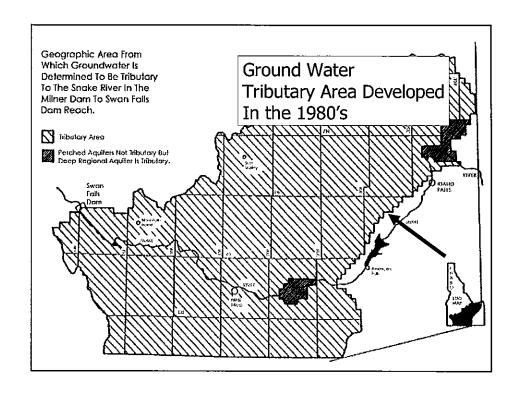


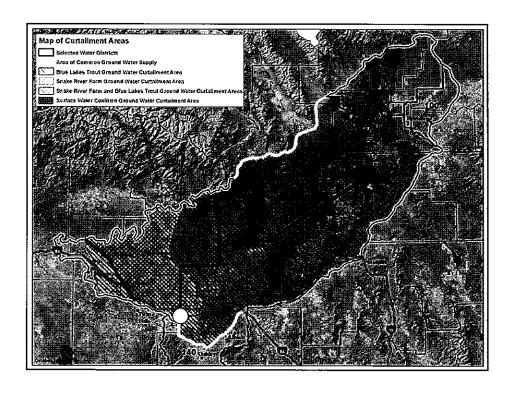


Members	Affiliation			
Abramovich, Ron	NRCS	Treasure		
Atkinson, Michelle	Micron Technology, Inc.	Valley		
Barrie, Rex	Boise River Watermaster WD #63			
Batt, Gayle	Wilder Irrigation District	Comprehensive		
Bowling, Jon	Idaho Power Company	Aquifer		
Burnell, Barry	Idaho Department of Environmental Quality	Management		
Dane, Russ	Keller Williams Realty	Plan		
Deveau, Paul	Boise Project Board of Control			
Dixon, Dave	Greenleaf Farms Inc Owner	Advisory		
Duspíva, Gary	Canyon County P&Z Commission	Committee		
Fraser, Rob	Idaho Wildlife Federation - President	COMMINECCE		
Fuss. Michael	Nampa Public Works Director	Established		
Goodson, Stephen	Governor's Office	March 26, 2010		
Howard, Matt	Bureau of Reclamation	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Jones, Chris	Trout Unlimited - VP Ted Trueblood Chapter	Slide 1 of 2		
Larson, Bill	Treasure Valley Partnership			

McKee, Lynn	Ada Cty. SWCD - Vice Chair			
Nelson, Greg		Treasure		
Patton, Brian	Idaho Department of Water Resources	Valley		
Peter, Kathy	Unaffiliated, former Director of USGS Idaho Water Science Program	Camanuahanaira		
Pline, Clinton	Nampa/Meridian Irrigation District - Board	Comprehensive		
Prigge, John	Sorrento Lactalis - Wastewater Treatment Manager	Aquifer		
Rhead, Scott	United Water - Director Engineer	Management		
Ronk, Jayson	VP of Idaho Assn of Commerce & Industry	Plan		
Scott, Jeff	Pioneer Irrigation District Water Superintendent	•		
Shoemaker, Gary	City of Caldwell Water Department	Advisory		
Stewart, Lon	Sierra Club	Committee		
Stewart, Warren	City of Meridian Pub Works Dept - Engineer Manager			
Thornton, John	N. Ada Cty. GW users; N. Ada Co Foothills Assoc; Member of N. Ada Cty. Tech. Working Group	Established March 26, 2010		
Ward, Rick	Idaho Department of Fish and Game	•		
Woods, Paul	Boise City Public Works Department	Slide 2 of 2		
Yerton, Janice	Water System Operator, Kuna			







MEMORANDUM

DATE: February 22, 2008

Amended Application Processing No. 59

TO:

Water Management Division

FROM:

Gary Spackman

RE:

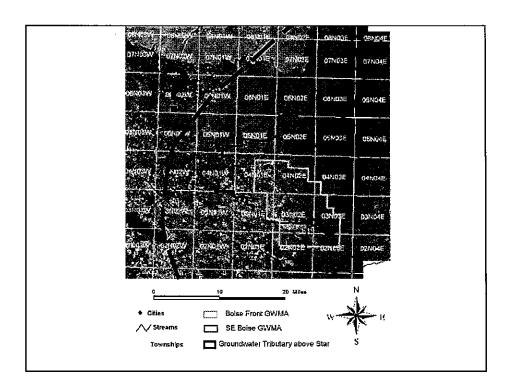
Processing of Applications to Appropriate Water in the Lower Boise River

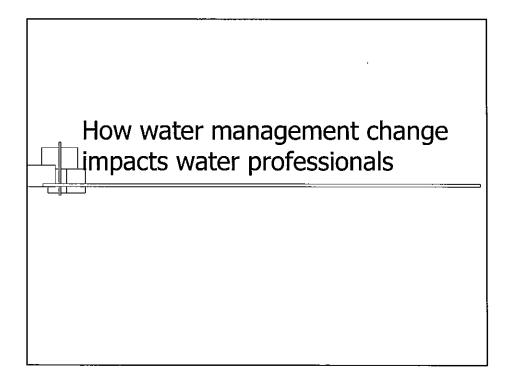
Basin

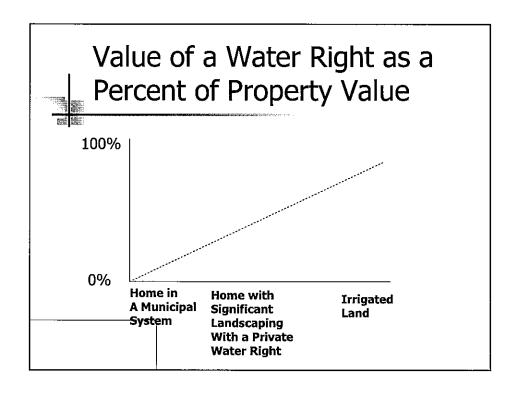
This memorandum replaces the original Application Processing Memorandum No. 59 issued in 1996.

Until further instructions are given, the following provisions apply to the processing of applications to appropriate water in the Boise River Basin (Administrative Basin 63) downstream from Lucky Peak dam.¹

 Surface water in the Boise River or tributary to the Boise River upstream from Star Bridge is fully appropriated during the irrigation season and during much of the rest of the year. As stated in the May 3, 1995, Amended Moratorium Order for the Boise River drainage:









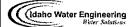
Inhibitors to Discussing Water Rights in Property Transactions

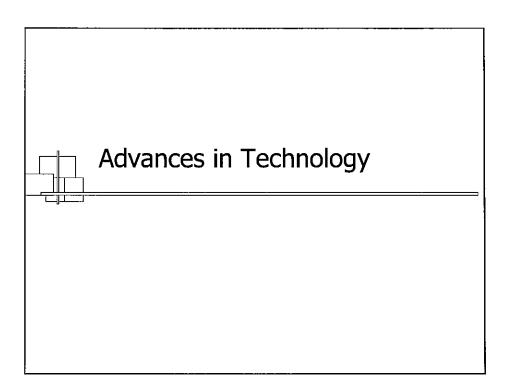
Historic

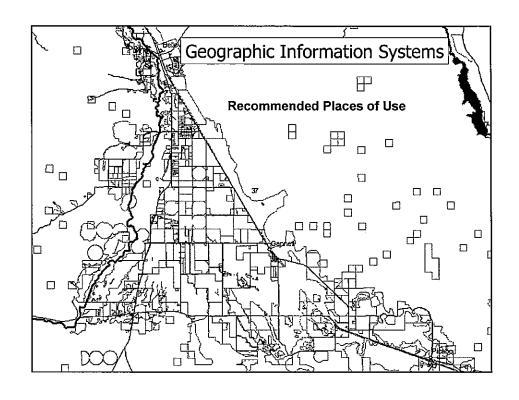
- Lack of buyer awareness
- Lack of determination of water rights
- Lack of regulation
- Lack of measurement
- Lack of enforcement
- Lack of economic incentive

Emerging

- Increasing awareness
- Snake River Basin Adj.
- Northern Idaho Adj.
- Adjudication enables
- Increased gaging
- Remote sensing
- Increasing water value

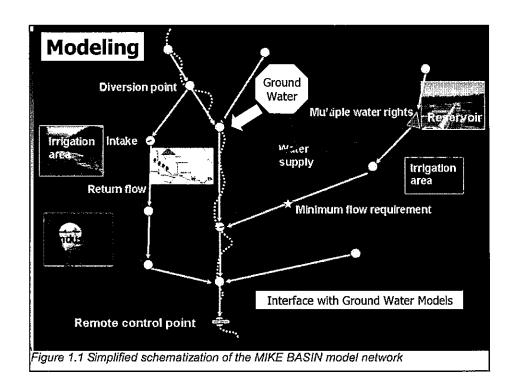


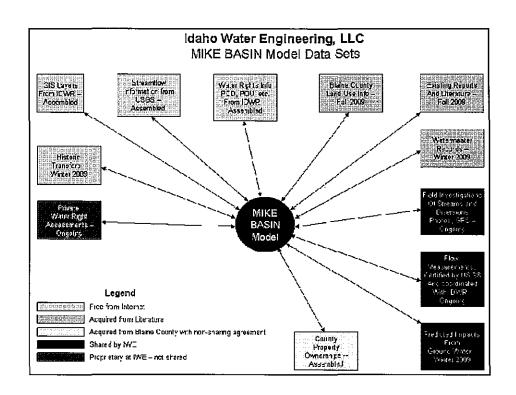


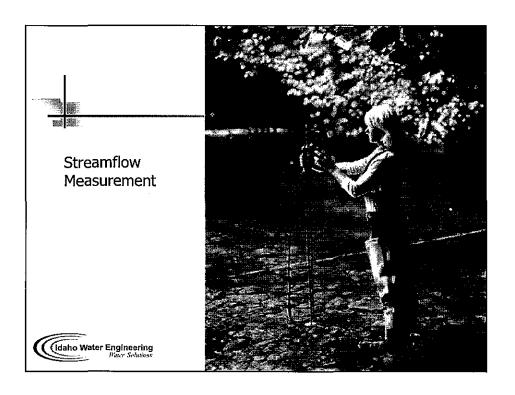


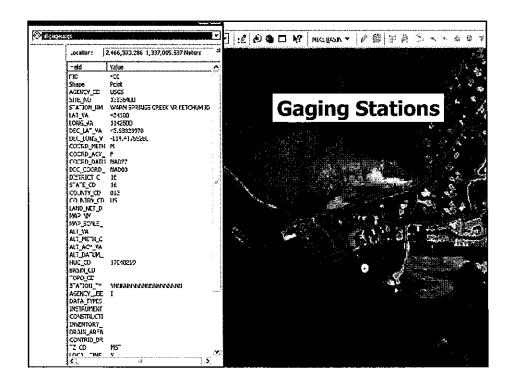










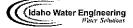




How Water Professionals can Deal with Water Management Change

- 1. Recognize that conjunctive administration is coming
- 2. Stay abreast of technology
- 3. Collaborate with specialty expertise
- 4. Collaborate between government and private capabilities

and...



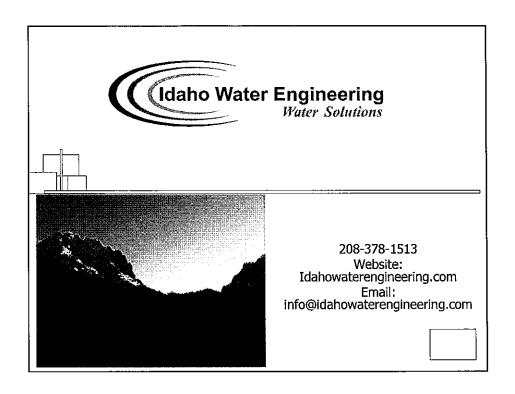
THINK AHEAD



Additional Thoughts...

- Water Management in the Treasure Valley is evolving toward Conjunctive Administration
- An orderly transition can be achieved if steps are taken prior to critical moments
- The Treasure Valley can become a model for this transition
- Water professionals should inform clients of this evolution in their interactions





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