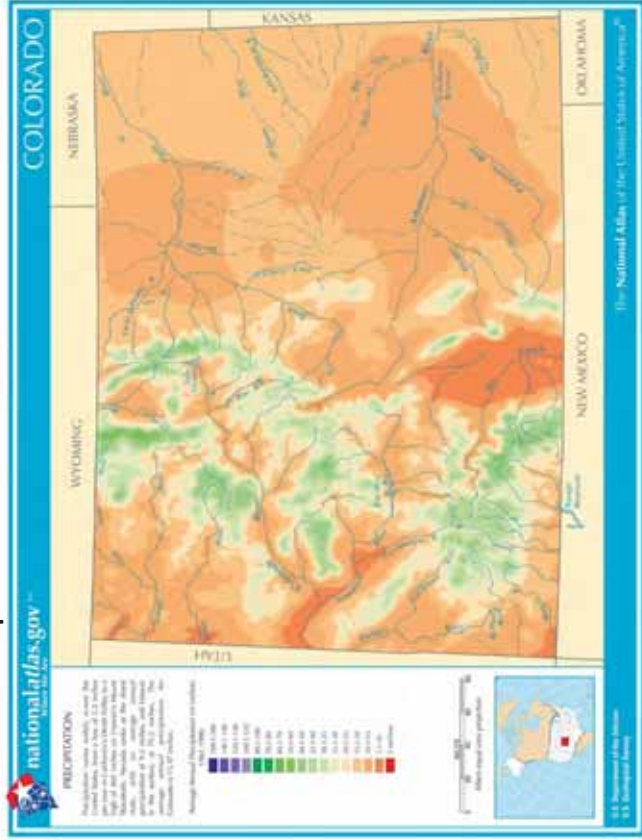
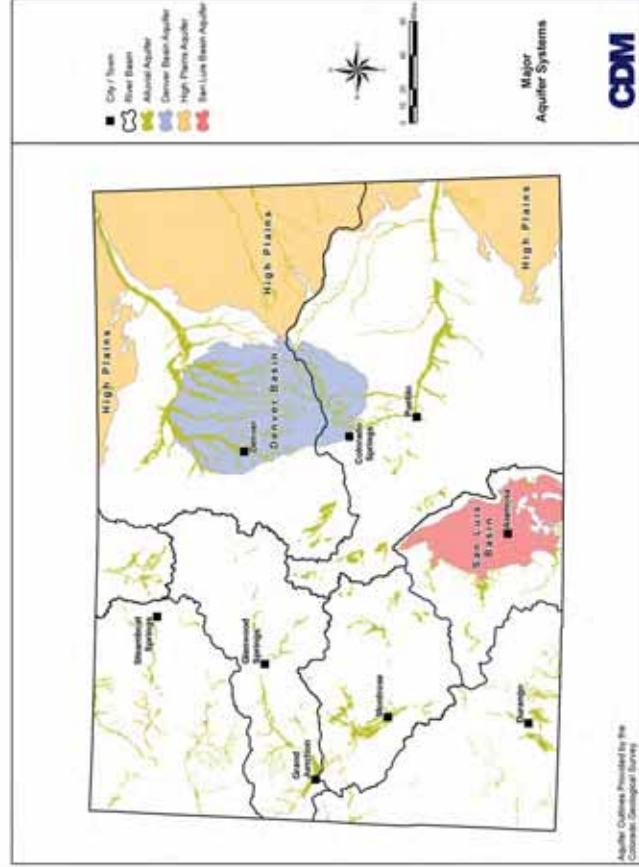


Colorado is a Semi-Arid State with Average Annual Precipitation of around 15 inches



Colorado's Major Aquifer Systems



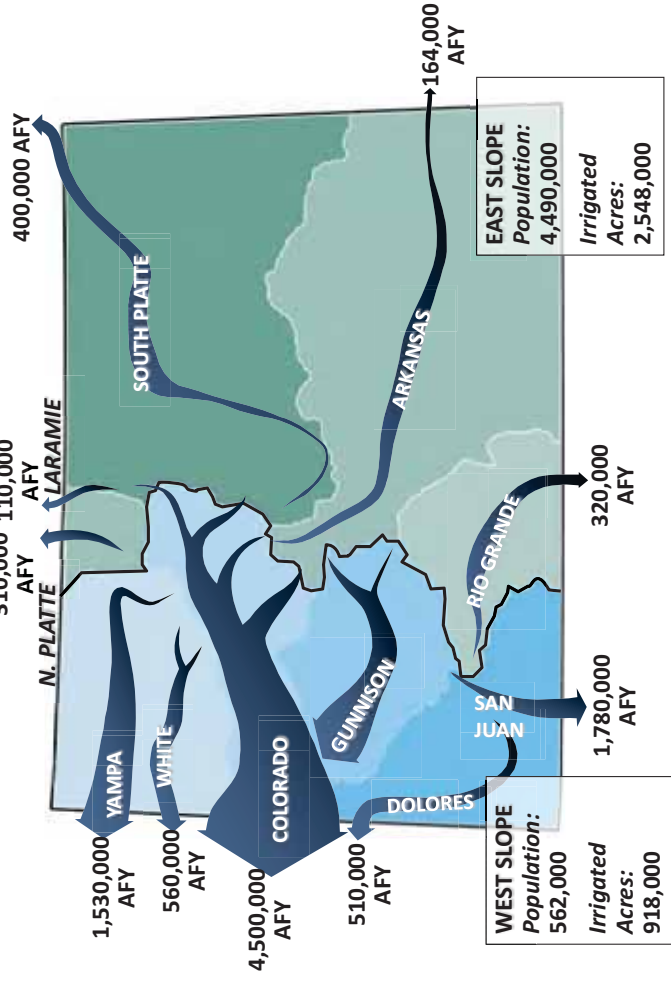
CO Environmental Health Association

Colorado's Water Supply Future

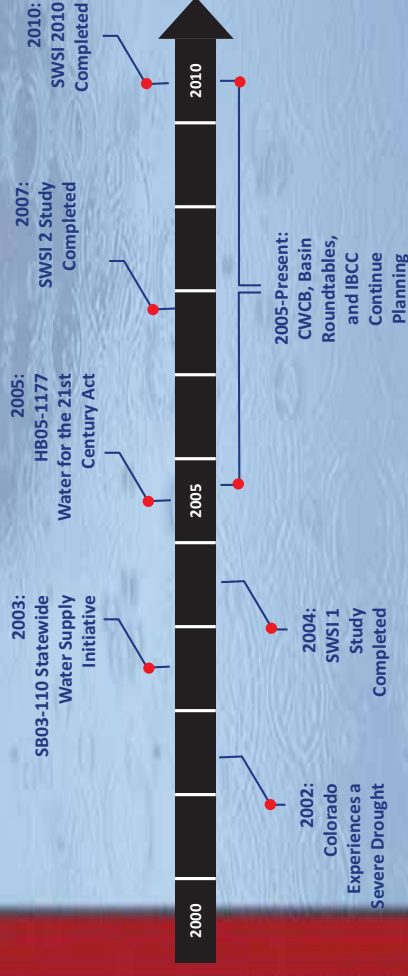
June 10, 2011

Eric Hecox, CWCB

Colorado Population, Irrigated Acres and River Flows

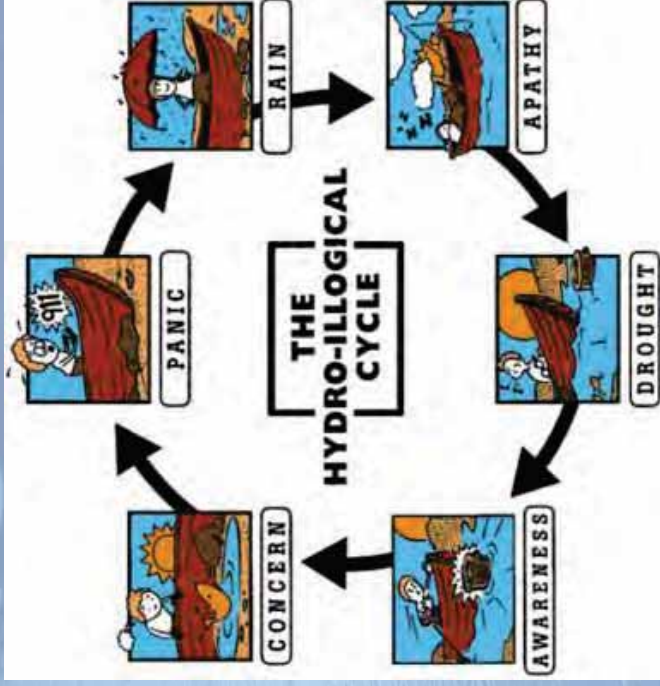


SWSI Timeline



New Water Needs Continue to Grow

- Colorado faces significant and immediate water supply challenges
- Population is expected to nearly double within the next 40 years
- Continuation of current trends will lead to a larger transfer of water out of agriculture



Diverse Solutions are Needed

- Providing an adequate water supply will involve implementing a mix of strategies
- All strategies should be pursued concurrently
- The Board recommends Colorado's water community enter an implementation phase



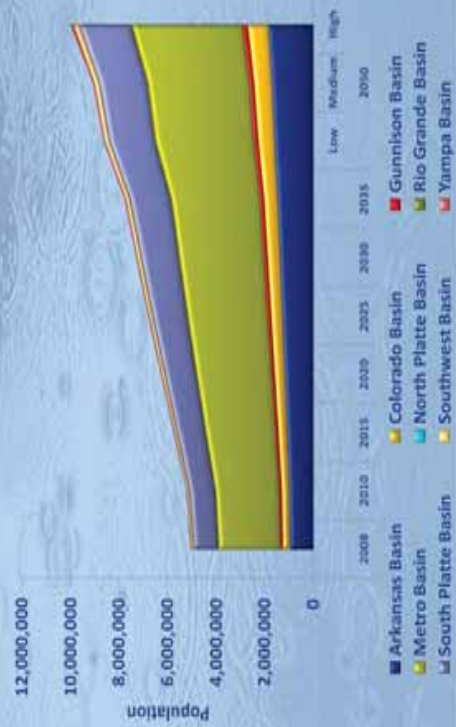
SWSI 2010 Overall Key Finding

Colorado faces a shortage of water for meeting the state's consumptive and nonconsumptive water needs. In order to meet Colorado's water management objectives, a mix of local water projects and processes, conservation, reuse, agricultural transfers, and the development of new water supplies should be pursued concurrently.



#1: Can't we just control our population?

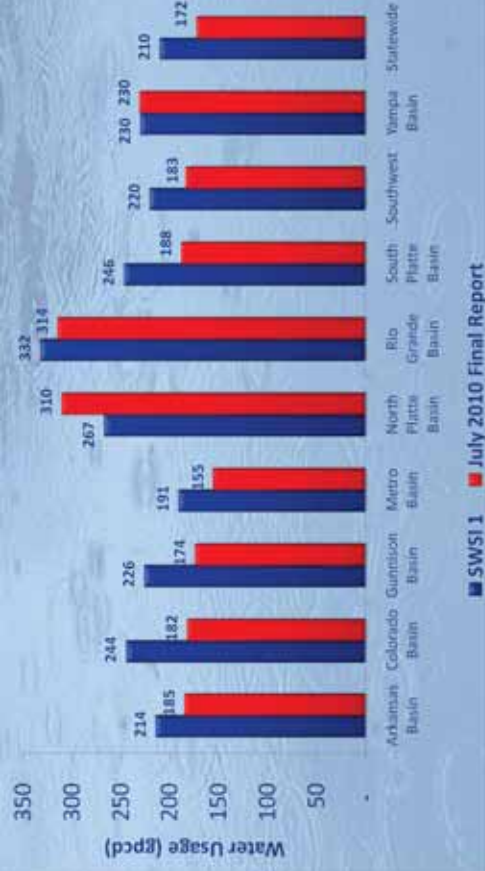
By 2050, Colorado's Population is Expected to Nearly Double



TOP 5 RECURRING QUESTIONS

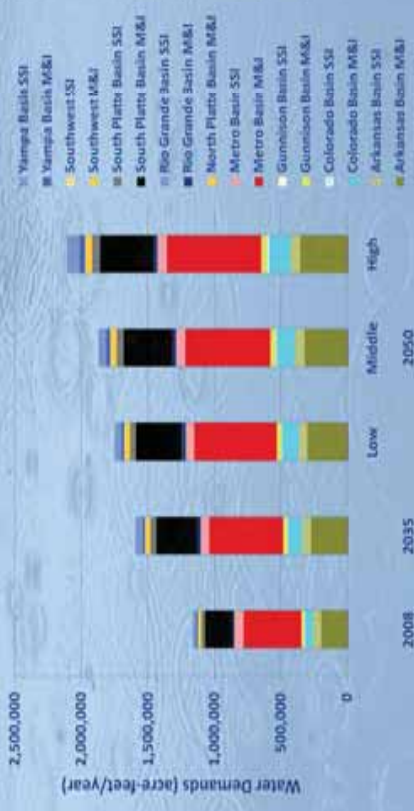


Per Capita Demand has Decreased by 18 Percent Since the Early 2000s, but the Cause and Permanence is Uncertain

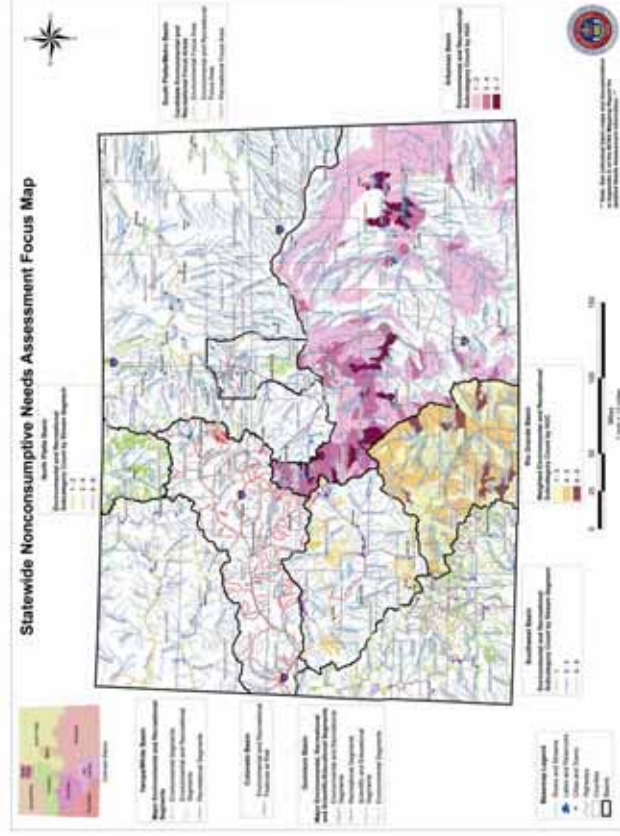


#2: Can't we just use less water?

By 2050, Colorado will Need 600,000 to 1 Million AFY of Additional M&I Supply



The Basin Roundtables have Identified 33,000 Miles of Streams and Lakes as Environmental and Recreational



#3

Do nonconsumptive needs really deserve equal treatment as consumptive needs?

#4

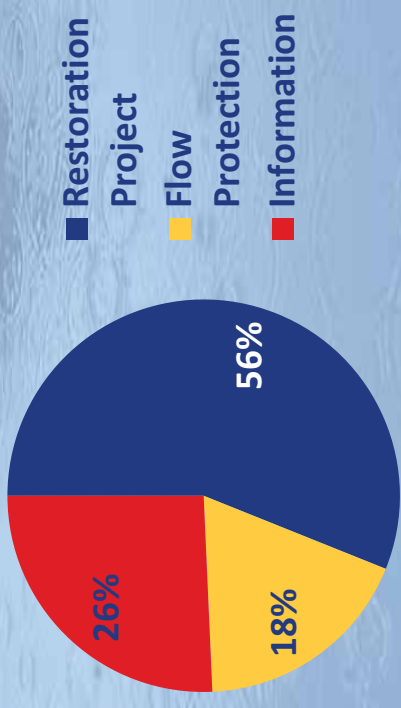
Does it really matter if Colorado's agriculture dries up?

Does the whole state agree we need to have a viable ag industry in the South Platte?

Isn't ag going to dry up anyway and we're just delaying the inevitable?

Types of Nonconsumptive Projects

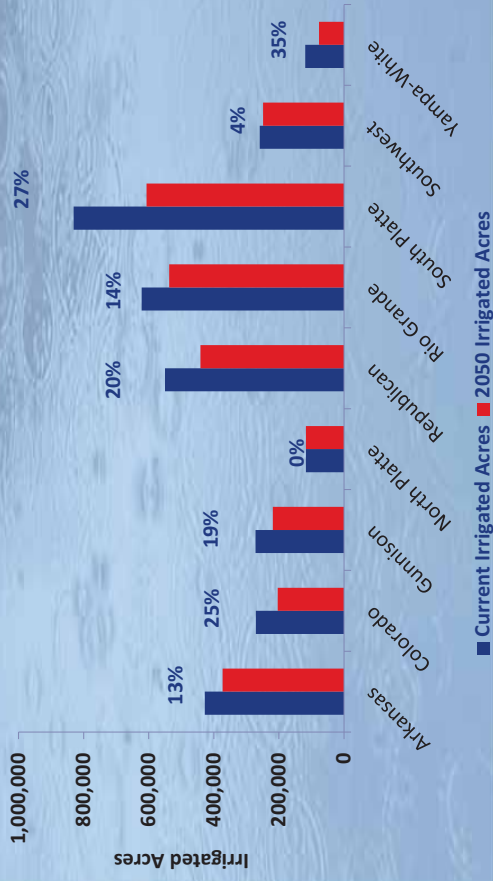
(For 708 Projects and Methods not Including CWCB Instream Flows and USGS Stewardship Areas)



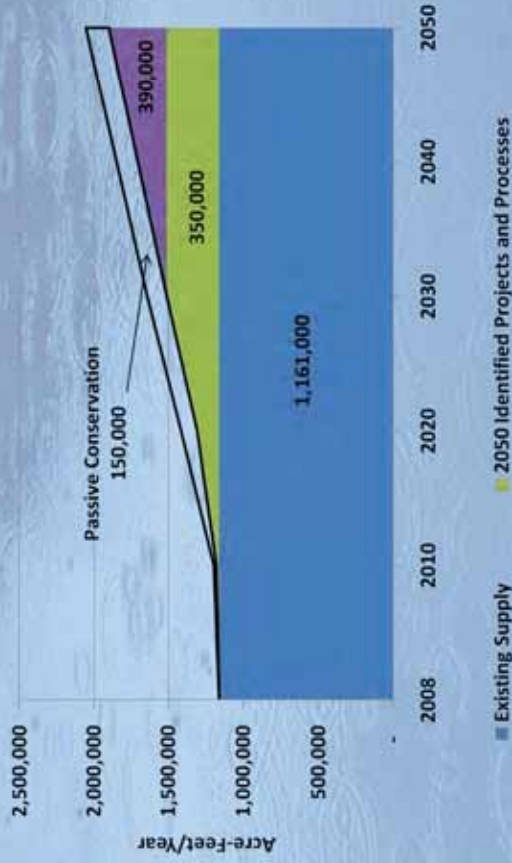
#5

Do we really need a portfolio of solutions?

All Basins are Expected to Have a Decline in Irrigated Acres by 2010, but there are Pressures to Keep Agriculture in Production



Statewide M&I and SSI Gap Summary Medium Scenario (IPPs at 70 Percent Success Rate)



22

In Order to Avoid the Status Quo, Colorado Will Need a Mix of Solutions

Possible Strategies

Examples of Projects and Methods

Agricultural Transfer

- Agricultural Transfers (Traditional and Alternative)

New Supply Development

- Green Mountain
- Yampa
- Flaming Gorge
- Blue Mesa

Conservation

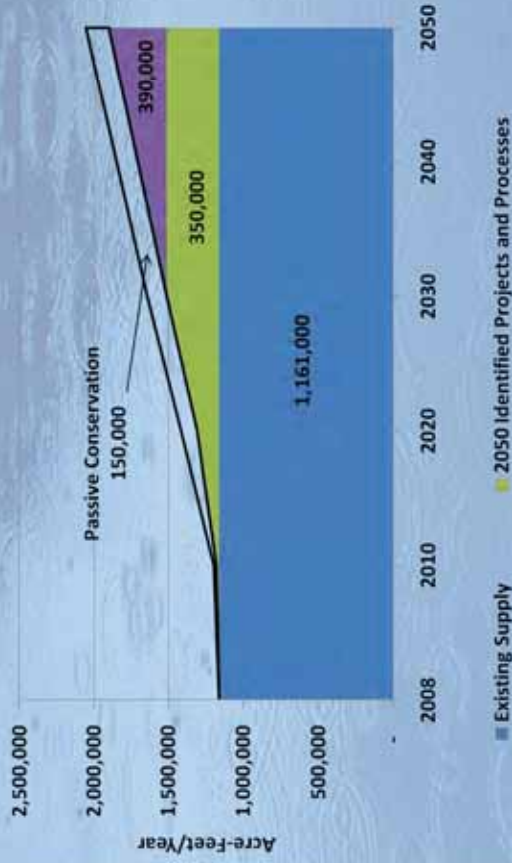
- Active Conservation

IPPs

- Categories of IPPs include agricultural water transfers, reuse of existing fully consumable supplies, growth into existing supplies, regional in-basin projects, new transbasin projects, firming in-basin water rights, and firming transbasin water rights

21

Statewide M&I and SSI Gap Summary Medium Scenario (IPPs at 70 Percent Success Rate)



22

SWSI 2010

Mission Statement:

The Colorado Water Conservation Board will help Colorado maintain adequate water supplies for its citizens, agriculture, and the environment. This will be accomplished through a mix of solutions, all of which should be pursued concurrently.

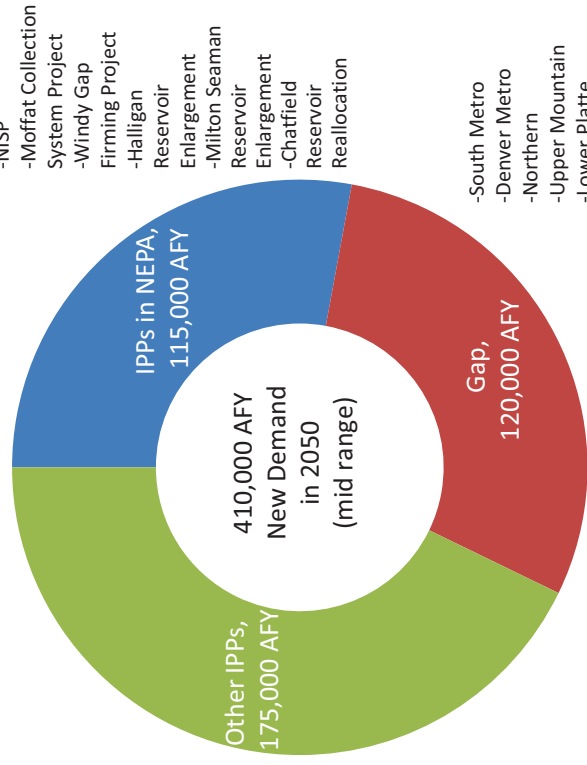
Overall Recommendation:

CWCB, the IBCC, and basin roundtables should now enter an implementation phase to determine and pursue projects and methods to help meet the state's consumptive and nonconsumptive water supply needs.

24

- Growth Into Existing Supplies
- Agricultural Transfers
- Gravel Lakes
- Recapture and exchange plans
- Augmentation Plans
- Denver Water system refinements and modifications
- Aurora Prairie Waters Project
- Eagle River Joint Use Project
- Box Creek Reservoir
- ECCV Northern Pipeline Project
- South Metro Counties Ruetter-Hess Reservoir
- WISE

South Platte Basin and Metro 2050 New Demand



- NISP
- Moffat Collection System Project
- Windy Gap Firming Project
- Halligan Reservoir
- Enlargement
- Milton Seaman Reservoir
- Enlargement
- Chatfield Reservoir
- Reallocation

- South Metro
- Denver Metro
- Northern
- Upper Mountain
- Lower Platte



Questions or Further Detail

Visit: www.CWCB.state.co.us

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Eric.Hecox@state.co.us



"Oh, for heaven's sake, Terril! The reservoirs stand at ninety-nine per cent of capacity."