

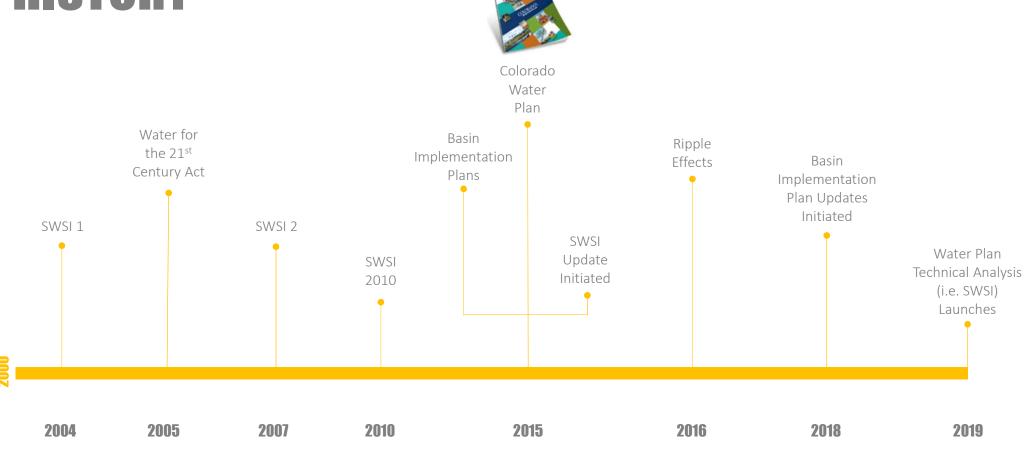
KEVIN REIDY - COLORADO WATER CONSERVATION BOARD



AGENDA

- Water Conservation / Recent Legislation / Partnerships + Projects
- Panel Discussion / Project Updates / What's on the Horizon?

ANALYSIS HISTORY





Since 2015, significant progress has been made on over 65% of Water Plan actions even though many of the goals extend through 2050.



SUPPLY AGRICULTURE

Reduce the projected 2050 municipal and industrial gap form 560,000 acre-feet to zero by 2030.

Support agricultural economic productivity and share 50,000 acre-feet using alternative transfer methods by 2030.



FUNDING

Sustainably fund the water plan by raising \$100 million in revenue annually starting in 2020 (\$3 billion by 2050).



CONSERVATION

Achieve 400,000 acre-feet of municipal and industrial conservation of water by 2050.



LAND USE

Ensure 75 percent of Coloradoans live in water-saving communities by 2025.



STORAGE

Attain 400,000 acre-feet of water storage to manage and share conserved water by 2050.



EDUCATION

Improve the level of public awareness by 2020 and engage Coloradoans on key water challenges by 2030.



WATERSHED AI

Cover 80 percent of all prioritized watersheds and rivers with a Management plan by 2030.



ADDITIONAL

Respond to and prepare for natural disasters, climate change and energy needs while protecting interstate matters.

RECENT LEGISLATION



NOTE: This bill has been prepared for the signature of the appropriate legislative officers and the Governor. To determine whether the Governor has signed the bill or taken other action on it, please consult the legislative status sheet, the legislative history, or the Session Laws.



HOUSE BILL 10-1051

BY REPRESENTATIVE(S) Pommer, Fischer, Frangas, Hullinghorst, Labuda, Looper, Pace; also SENATOR(S) Whitehead, Carroll M., Foster, Tochtrop.

CONCERNING ADDITIONAL INFORMATION REGARDING COVERED ENTITIES'
WATER EFFICIENCY PLANS.

Be it enacted by the General Assembly of the State of Colorado:

SECTION 1. 37-60-126 (4) (a) (1) and (9) (a), Colorado Revised Statutes, are amended, and the said 37-60-126 is further amended BY THE ADDITION OF A NEW SUBSECTION, to read:

37-60-126. Water conservation and drought mitigation planning programs - relationship to state assistance for water facilities - guidelines - water efficiency grant program - repeal. (4) A plan developed by a covered entity pursuant to subsection (2) of this section shall, at a minimum, include a full evaluation of the following plan

(a) The water-saving measures and programs to be used by the covered entity for water conservation. In developing these measures and programs, each covered entity shall, at a minimum, consider the following:

Capital letters indicate new material added to existing statutes; dashes through words indicate deletions from existing statutes and such material not part of act.



2016 Colorado Revised Statutes
Title 37 - Water and Irrigation
Water Conservation Board and Compacts
Article 60 - Colorado Water Conservation Board
Part 1 - General Provisions
\$ 37-60-126. Water conservation and drought mi

§ 37-60-126. Water conservation and drought mitigation planning - programs - relationship to state assistance for water facilities - guidelines - water efficiency grant program - definitions - repeal

Universal Citation: CO Rev Stat 5 37-60-126 (2016)

(1) As used in this section and section 37-60-126.5, unless the context otherwise requires:

(a) "Agency" means a public or private entity whose primary purpose includes the promotion of water resource conservation.

(b) "Covered entity" means each municipality, agency, utility, including any privately owned utility, or other publicly owned entity with a legal obligation to supply, distribute, or otherwise provide water at retail to domestic, commercial, industrial, ore public facility outsomers; and that has a total demand for such customers of two thousand acre feet or more.

(c) "Grant program" means the water efficiency grant program established pursuant to subsection (12) of this section,

(d) "Office" means the office of water conservation and drought planning created in section 37-60-124.

(e) 'Plan elements' means those components of water conservation plans that address water saving measures and programs, implementation review, water-saving goals, and the actions a covered entity shall take to develop, implement, monitor, review, and review its water conservation plans.

(i) "Public facility" means any facility operated by an instrument of government for the benefit of the public, including, but not limited to, a government building, park or other recreational facility school, college, university, or other educational institution, highly-public public addition.

(g) "Water conservation" means water use efficiency, who water use, water transmission and distribution system efficiency, and supply substitution. The objective of water conservation is a long serm increase in the productive use of water supply needs without compromising desired water services.

(h) "Water conservation plant", "water use efficiency plant", or "plant" means a plan adopted in accordance with this section.

(i) "Wister-saving measures and programs" includes a device, a proctice, hardware, or equipment thus reduces water demands and a program that uses a combination of measures and incentives that allow for an increase in the productive use of a foot award roughly.

(2) (a) Earth covered entity shall, subject to section 37-60-122, develop, adopt, make publishy available, and implement a plan pursuant to which such covered entity shall enchange its domestic commercial, industrial, and public facility constitutes to so use there more efficiently kny take or focal governmental entity that is not a covered entity may develop; adopt, make publishy available, and implement such a plan.

(b) The office shall review previously submitted conservation plans to evaluate their consistency with the provisions of this section and the guidelines established pursuant to paragraph (a) of subsection (7) of this section.

(c) On and after July 1, 2006, a covered entity that seeks financial assistance from either the board or the Colorado water resources and power development authority shall submit to the board a new or revised plan to meet water conservation goals adopted by the covered entity, in accordance with this section, for the board's approved prior to the release of new loan protects.

(3) The manner in which the covered entity develops, adops, makes publicly available, and implements a plan established pursuant is substituted (3) of this session that be determined by the covered entity in accordance with this session. The plan shall be accordanced by a detailed for implementation. The plans and shallowed being provided for be reliable manner of the providence of the control of the providence of the prov



NOTE: The governor signed this measure on 5/1/2015.



SENATE BILL 15-008

BY SENATOR(S) Roberts, Hodge, Jones, Carroll, Crowder, Donovan, Garcia, Heath, Johnston, Kédlas, Mernfield, Newell, Steadman, Todd; also REPRESENTATIVE(S) Vigla, Corum, March Bush, Becker K, Buckner, Dazna, Esgar, Fields, Ginal, Hammer, Karth-Tharp, Lebsock, Moreno, Pettersen, Rosenhal, Ryden, Williams, Winter, Young, Hillinghorst.

CONCERNING THE PROMOTION OF WATER CONSERVATION IN THE LAND USE PLANNING PROCESS, AND, IN CONNECTION THEREWITH, MAKING AN APPROPRIATION.

Be it enacted by the General Assembly of the State of Colorado:

SECTION 1. In Colorado Revised Statutes, 37-60-126, amend (4) introductory portion, (4) (d), and (4) (e); and add (4) (f) as follows:

37-60-126. Water conservation and drought mitigation planning - programs - relationship to state assistance for water facilities - guidelines - water efficiency grant program - repeal. (4) A plan developed by a covered entity pursuant to subsection (2) of this section-thiff-MST, at a manurum, include a full evaluation of the following plan elements:

Copital latters indicate new material added to existing statutes; dashes through words indicate deletions from existing statutes and such material not part of act.

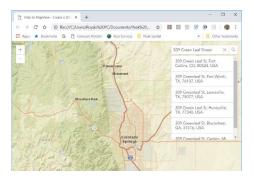
EFFICIENCY PLANNING

- Water Efficiency Plans
 - Approved 31 plans since the CO Water Plan was completed
 - REGIONAL PLANS
 - Blue River
 - Eagle River
 - Roaring Fork

ADVANCING EFFICIENCY

- Commercial + Industrial Audit Training
- Information Systems
- Water Loss Training







FUNDING

Water Plan Grant Category	FY 17/18	FY 18/19	FY 19/20
WSRF Supplemental Funding	\$10M	\$2M	\$2.5M
CO Watershed Restoration Program	\$5M	\$2M	\$4M
Agricultural Transfer Methods (ATM) Grants	\$1M*		\$1M
Agricultural Projects Water Plan Grants	\$1M	\$1M	\$1M
Conservation & Land Use Planning Water Plan Grants	\$1M	\$1M	\$1M
Environment/Recreation Water Plan Grants	\$1M	\$1.5M	\$1.5M
Innovation/Outreach Water Plan Grants	\$5M	\$0.5M	\$0.5M
Storage & Supply Gap Water Plan Grants	\$1M	\$3M	\$3M
Water Plan Updating Efforts	\$1M		\$5.5M
TOTAL	\$25M	\$11M	\$20M



^{*}ATM grants were not calculated into the original \$25M package in FY 17/18.

PARTNER AGENCIES

- DOLA + Land Use
- DWR + Rainwater Harvesting
- CDPHE + Reuse

PROJECT PARTNERS

- University of Colorado (Boulder)
- Western Resource Advocates
- Denver Water
- Element Water
- Sonoran Institute
- Babbitt Center for Land & Water Policy
- ...and many other partners across Colorado (and in neighboring states)

Conservation and Land Use Planning

- \$400k grant with the Sonoran Institute
- \$99K grant with Razix Solutions and One Water Solutions Institute-CSU
- \$30K grant for Guidance to Covered Entities for Land Use Planning Components of Water Efficiency Plans (GWC and Babbitt Center)
- Build local capacity to plan to implement long-term strategies
- Integrate land use and water planning
- PROJECT GOALS Assist water providers to evaluate BMPs for water demand management that may be implemented through land use planning efforts
 - Reaches
 - 24 communities; 1.2 million residents
 - 400 water providers, land use planners and elected officials
 - Water providers statewide (those who are creating a CWCB approved plan)



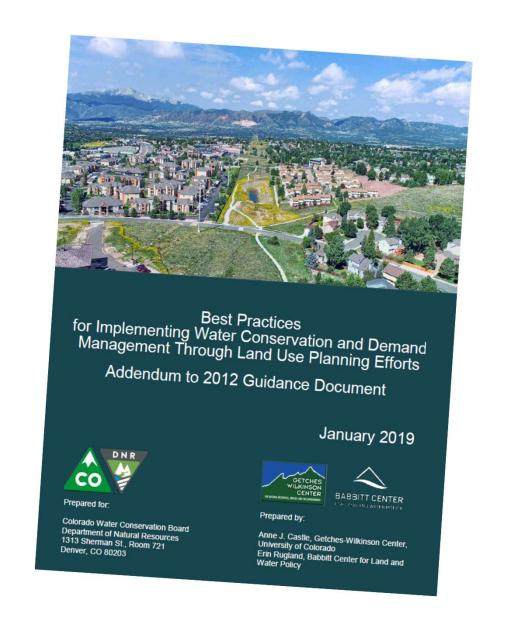
ANNE CASTLE





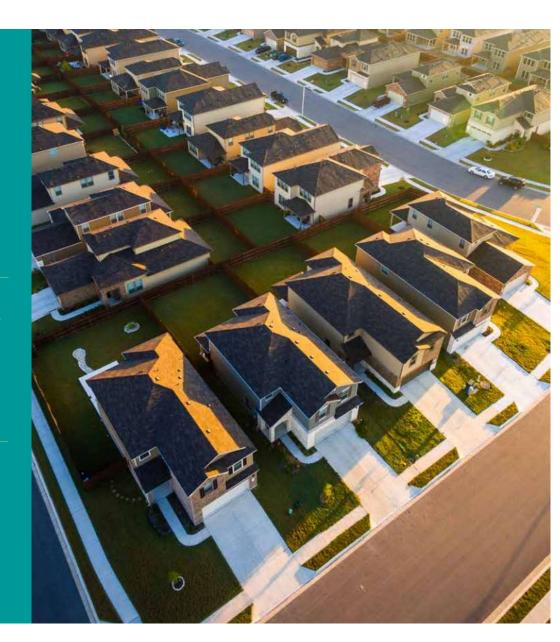


Integrating Water Efficiency & LAND USE PLANNING



Water Efficiency

- \$52K for Best Practices for Water Meter Retrofit Projects
 Financed by State Performance Contracts in Colorado
- \$19k for Conservation-Oriented Tap Fees: Guide & Workshop
- Develop Best Practices for the retrofit of water meters performed through the State of Colorado's Performance Contracting Program
- The objective of the guide is to provide calculation methodology options that integrate water conservation incentives into utilities' residential ,CII , and irrigation tap fees
 - 38KAF/yr efficiency savings by 2040
- \$34 million/yr from new revenue streams by addressing apparent losses
- 5-75 af/yr for each community depending on that community

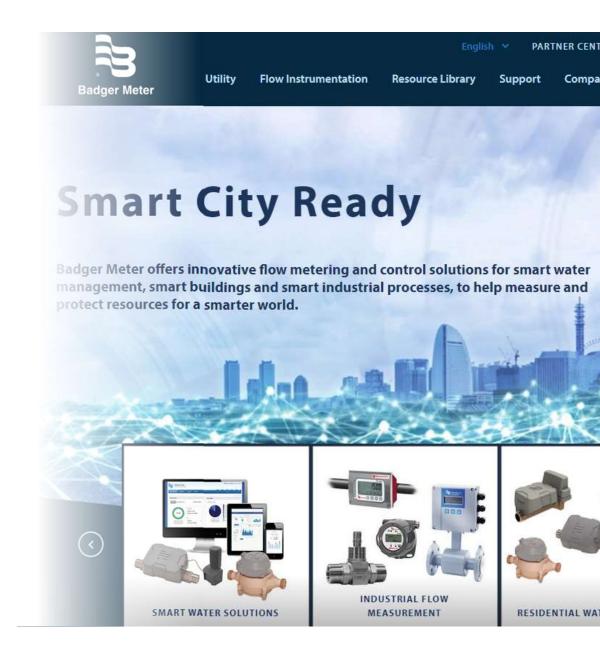


AMELIA NUDING





& TAP FEES



BEORN COURTNEY

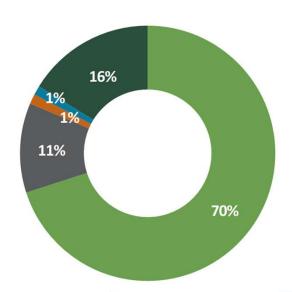




HB-1051 REPORTING

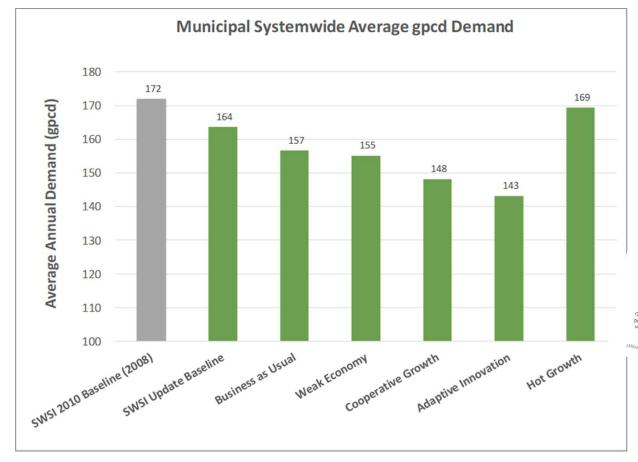
Statewide Baseline Municipal Demand Data Sources







SWSI MUNICIPAL DATA OUTPUTS





Reuse

- Implementing Direct Potable Reuse Regulations to Optimize Water Supplies to Meet Future Demands
- Development of Treatment and Monitoring Guidelines for Direct Potable Reuse in Colorado
- \$49K for Pure Water Demonstration Project
- Develop a regulatory framework and regulations for Direct Potable Reuse
- Increased public acceptance of potable reuse via onsite tours with targeted audiences and engagement with beverage producers to create a product for consumption.
- Statewide Regulations for Direct Potable
 Reuse
- Various outreach efforts & materials produced for tours
- 4600 gallons produced for beverage makers



DAMIAN HIGHAM





WATER **REUSE**





PANEL QUESTIONS

- 1. What project are you most proud of that will have major impacts on water conservation?
- 2. What's the biggest thing you see coming or would hope to work on in the future?

