

Fort Collins Utilities Water Supplies & Demand Management

Poudre River Forum
January 31, 2015



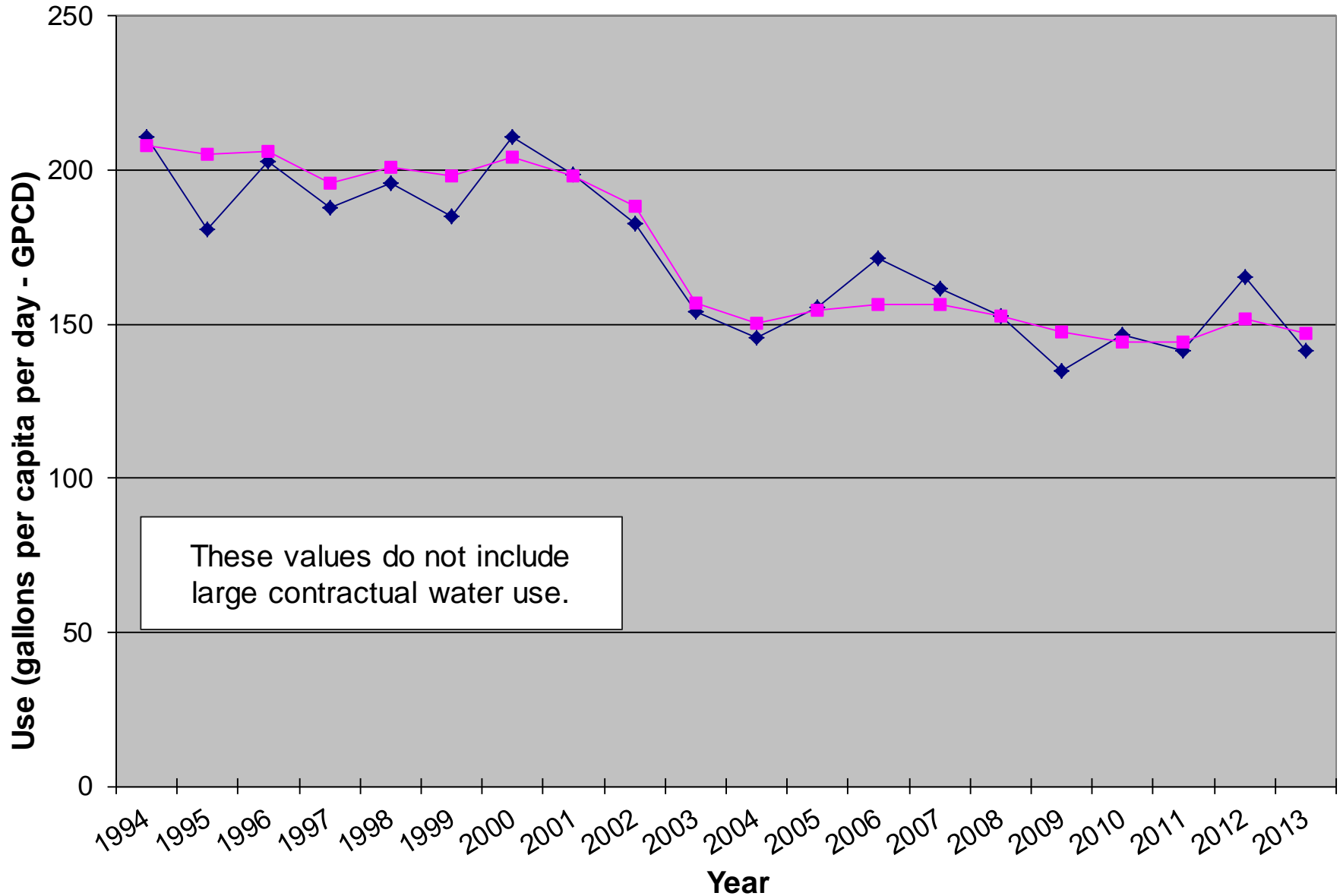
Water Supply & Demand Management Policy

- Adopted in 2003, updated in 2012
- Guides the Utilities in balancing water supplies and demands
- Policy Objective
 - Ensure an adequate, safe and reliable supply of water for the beneficial use by customers and the community
 - Manage the level of demand and the efficient use of a scarce and valuable resource

Current Water Demand (Use)

- Deliver about 26,000 acre-feet/year treated and 4,000 acre-feet/year of raw water
- Demand levels have declined significantly
 - ~230 gpcd early 1990s
 - ~200 gpcd before 2002
 - ~150 gpcd last several years

Fort Collins Utilities - Per Capita Water Use



Water Conservation

- Measures to reduce demands long-term
 - Restrictions used for short-term reductions
 - Water Supply Shortage Response Plan
- On-going conservation efforts
 - All customers metered in 2003
 - Tiered & seasonal rate structures
 - Educational programs
 - Rebates, sprinkler audits, etc.
 - Commercial audits and incentives

Water Conservation

- Water Conservation Plan
 - Adopted by State in 2010
 - Conservation goal of 140 gpcd by 2020
 - Use most state/national BMPs

- Plan update starting in 2015

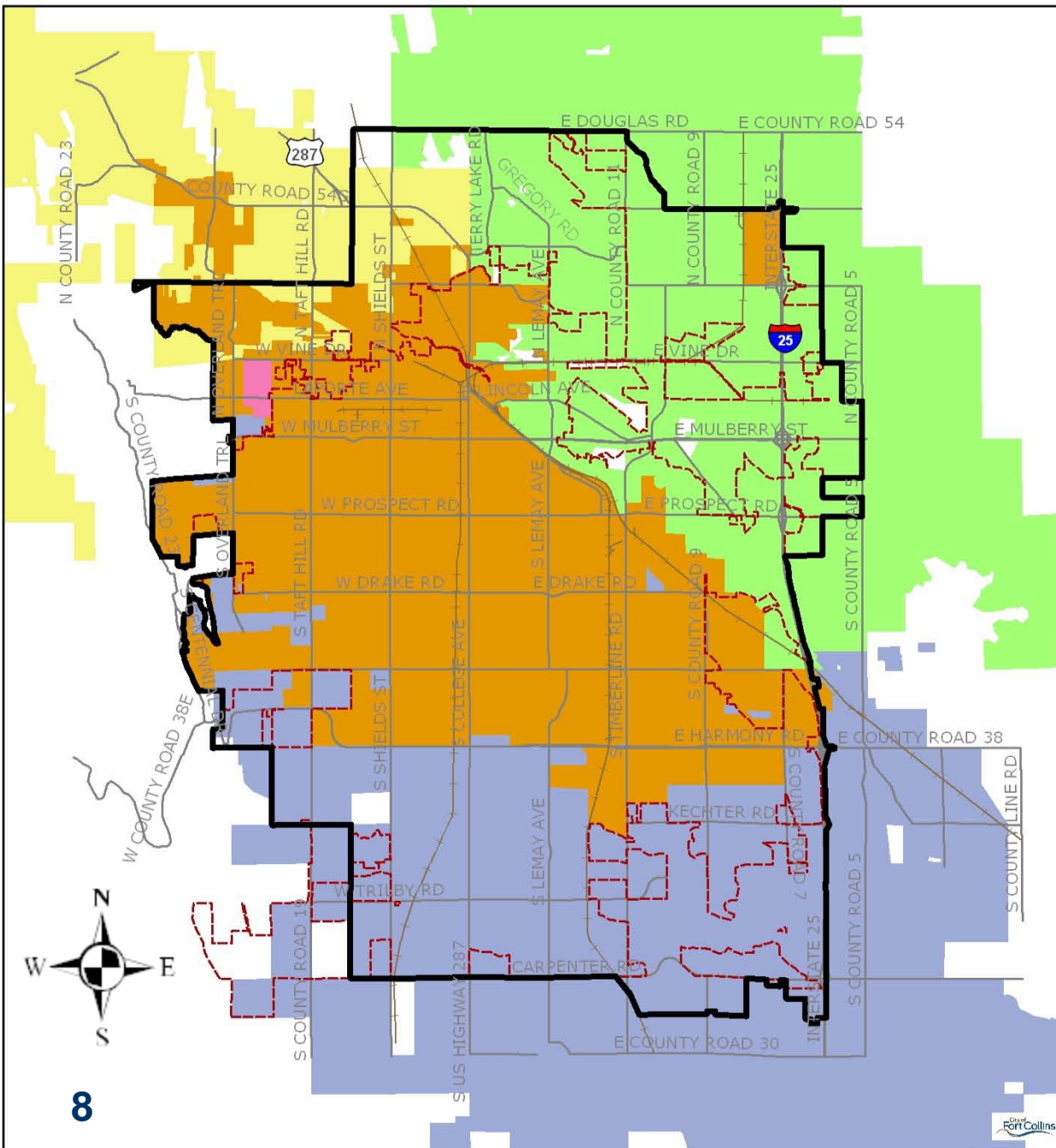






Future Water Demands/Supplies

- Depends on population and commercial growth
- Estimated Utility population ~165,100 by 2050 (~129,900 in 2010)
- Large contractual use increase of ~3,000 acre-feet/year by 2050
- Supplies needed depends on future demands (planning demand level)



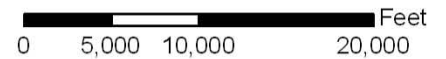
Fort Collins Area Water Districts Map



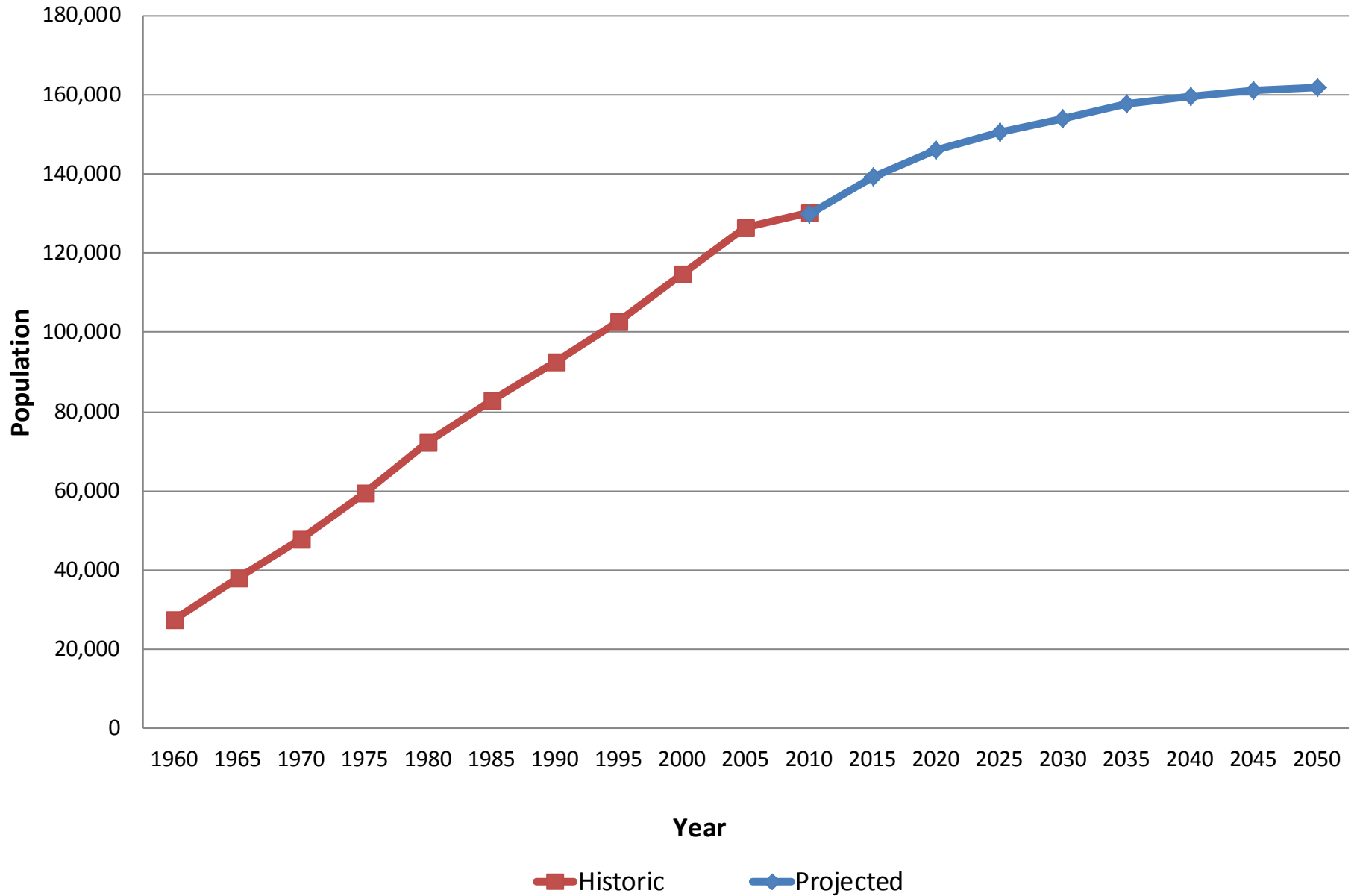
-  GMA
-  Major Streets
-  City Limits
-  Railroad

Water Districts

-  ELCO Water District
-  Fort Collins Loveland Water District
-  Fort Collins Utilities (Water)
-  Sunset Water District
-  West Fort Collins Water District



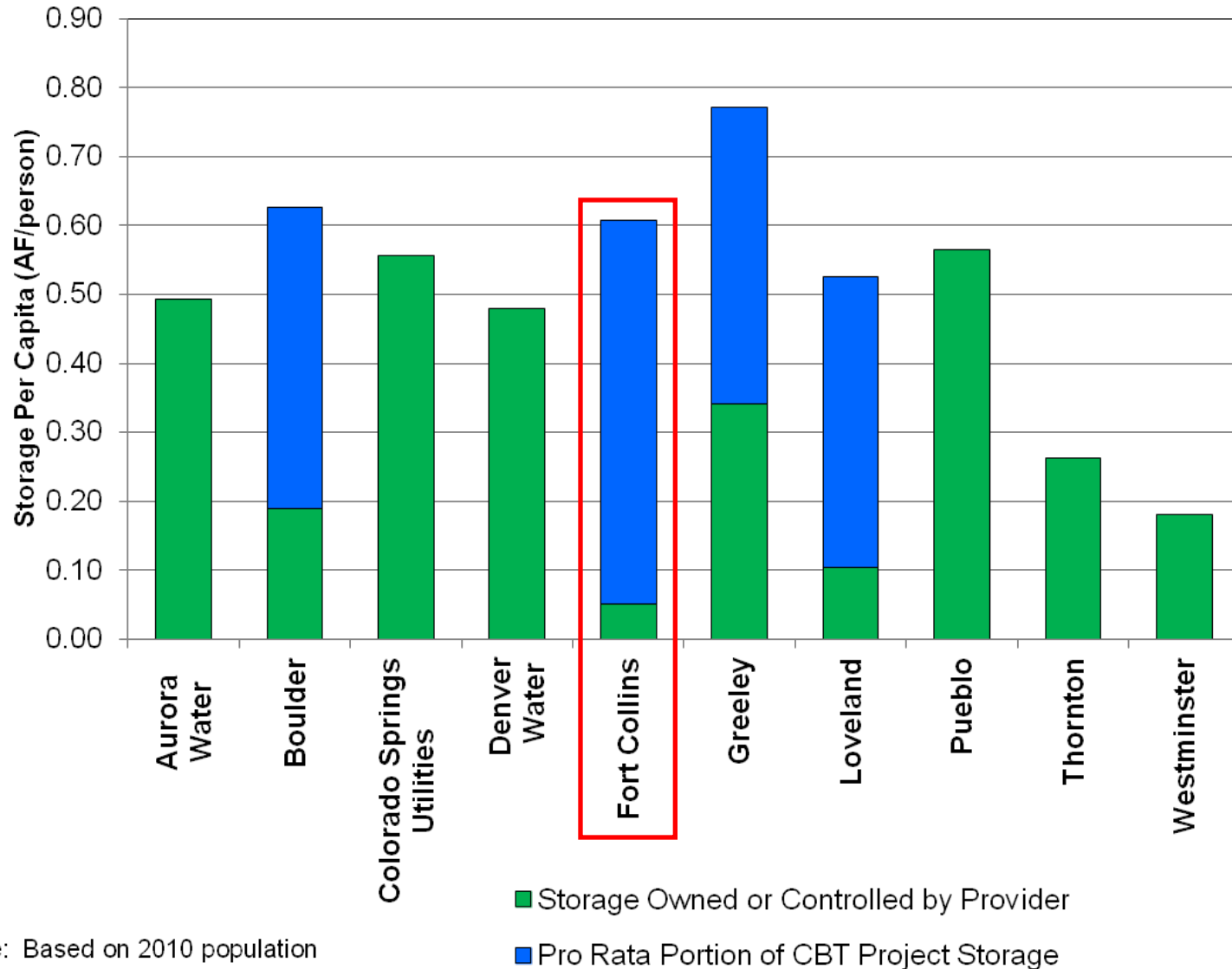
City of Fort Collins - Water Utility Historic and Projected Population



Future Supply Plans

- Acquire additional water rights and/or cash through Raw Water Requirements
- Acquire/develop storage capacity to help manage current and future water rights
 - Operational storage (gravel pits or similar)
 - Carryover and vulnerability protection storage (Halligan Res. or similar)

Storage per Capita Comparison



Potential Uncertainties???

- Modeling does not include:
 - Climate change
 - CBT curtailment
 - Reuse Plan issues
 - Water quality blending
- Supplies could be reduced by:
 - River administration changes
 - Competing water rights



Key Policy Elements

- Water Supply Reliability
 - Continue 1-in-50 year drought criterion and Water Supply Shortage Response Plan
 - Other key criteria
 - Storage reserve factor (20% of annual demand)
 - Planning demand level (150 gpcd)
- Demand management (140 gpcd goal by 2020)

Closing Thoughts

- Conservation continues to be important
- Water Utility approaching buildout
- Advocate lower water use and increased storage to make effective use of conserved water
 - Provides uncertainty protection
 - Sustainable water supply future

Thank You