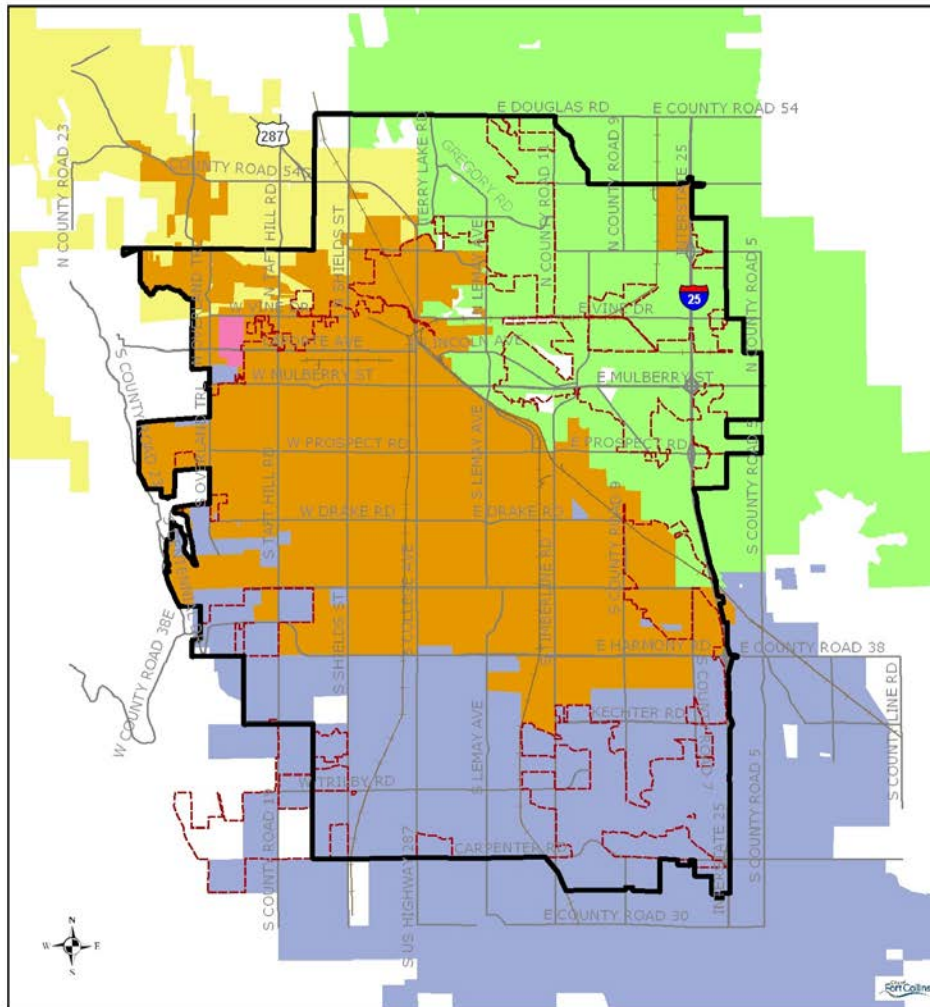




Fort Collins Area Water Districts Map



-  Water Features
-  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

0 5,000 10,000 20,000 Feet

- 1882: Water Utility formed
- Early 1900s: Acquired senior water rights
- 1958: Purchased first 6,000 CBT units
- 1960s: Established Raw Water Requirements



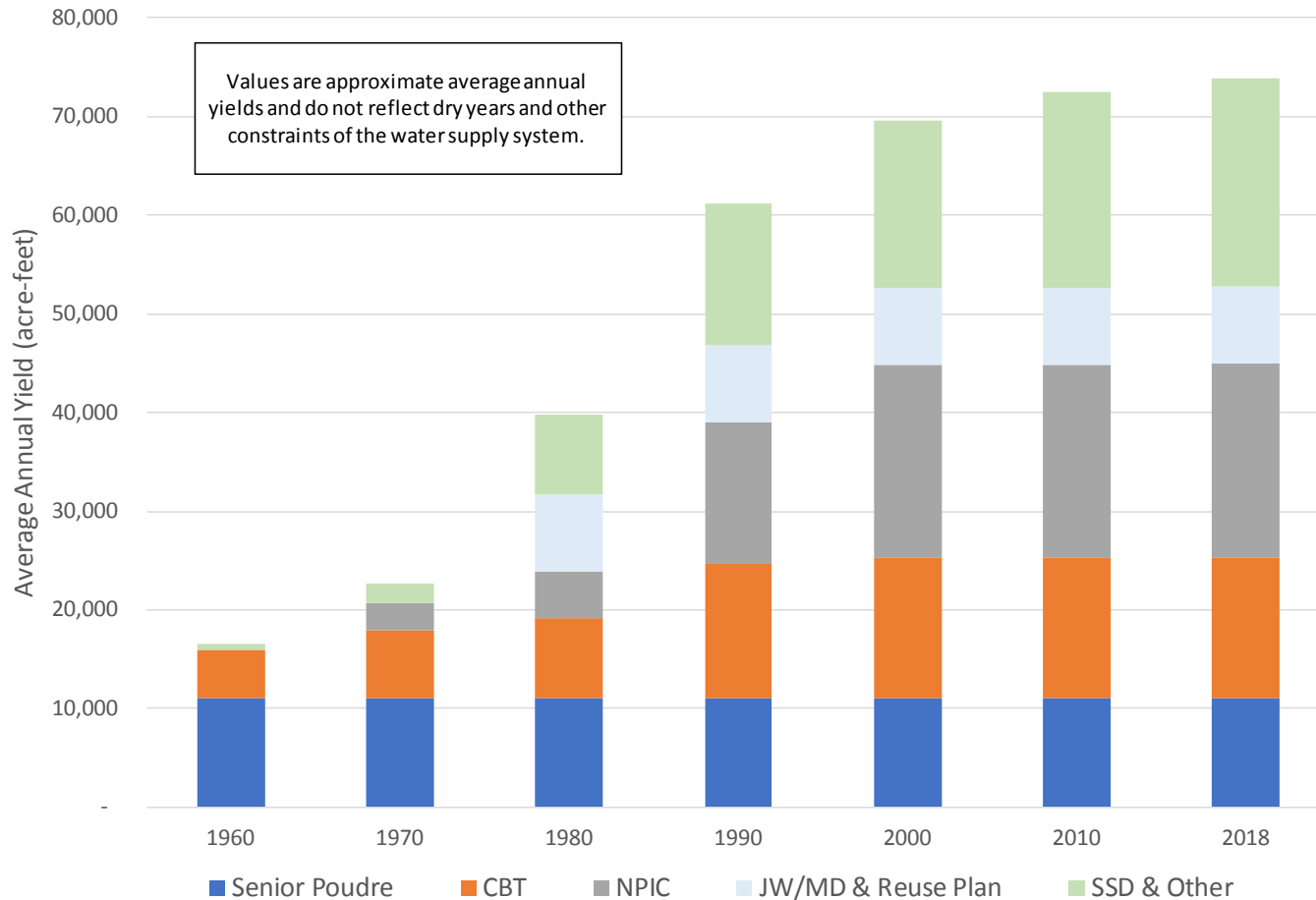
- 1970s: Acquired/improved Michigan Ditch and Joe Wright Reservoir
- 1977: Drought – first water restrictions
- 1988: Water Supply Policy
 - Push to increase water supplies
- 2003 & 2012: Water Supply & Demand Management Policy
 - Focus on increased storage



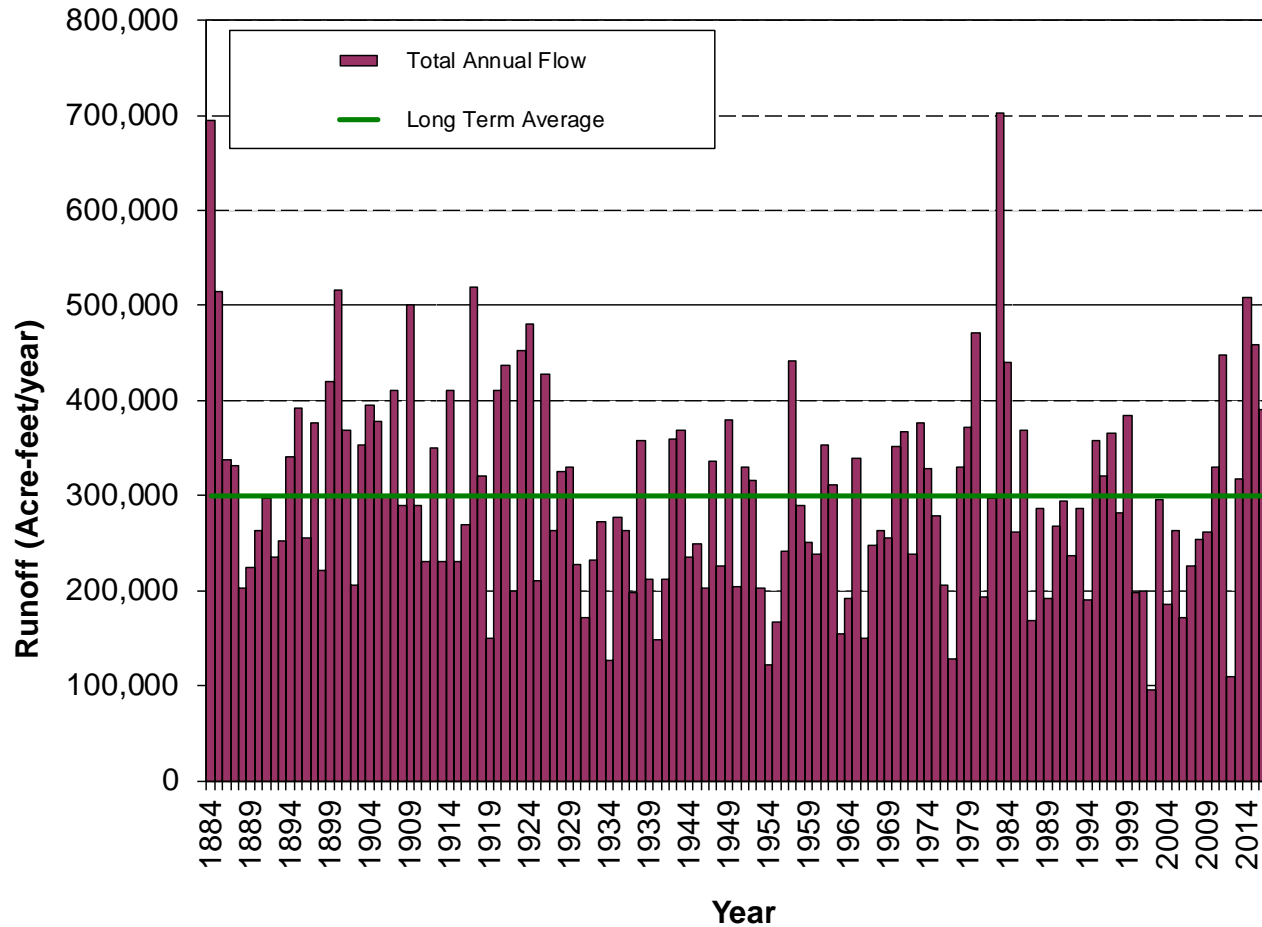
- Poudre River & CBT Project
- On average, about 50/50 split between them



Fort Collins Utilities: Historic Water Right Ownership

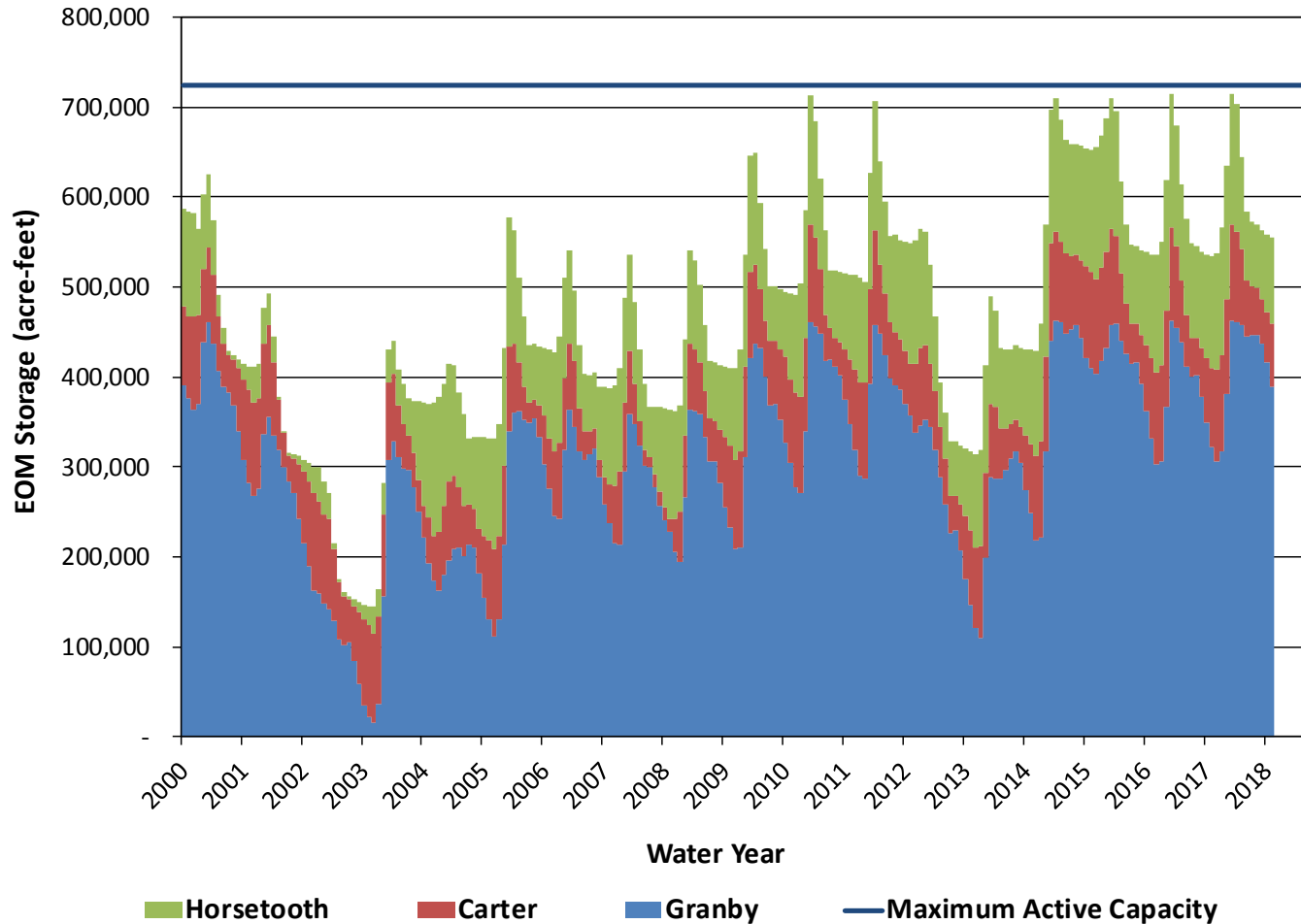


Poudre River Annual Native Runoff at the Mouth of the Canyon

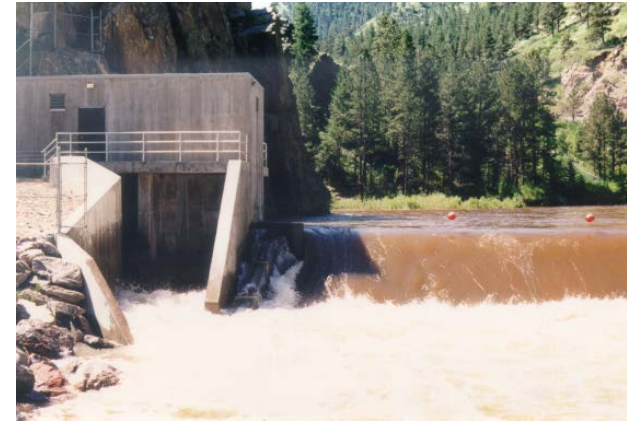




CBT Project End of Month Active Storage Levels



- Adequate supplies in most years
- Based on 1-in-50 year drought criterion
- Existing firm yield ~ 31,000 acre-feet/year



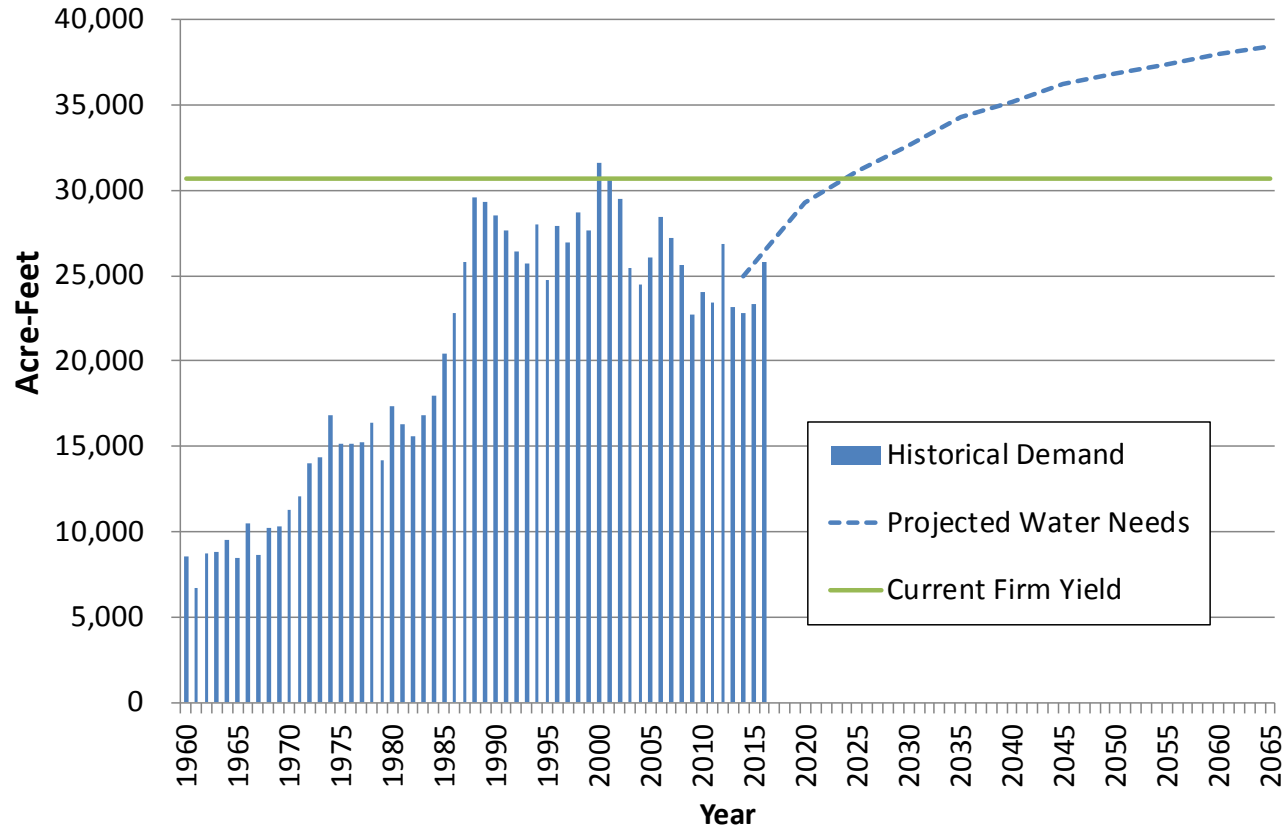
- Deliver ~24,000 acre-feet/year treated
 - ~4,000 acre-feet/year of raw water
- Demand levels have declined significantly
 - ~230 gpcd early 1990s
 - ~200 gpcd before 2002
 - ~145 gpcd last several years



- Measures to reduce demands long-term
 - Restrictions used for short-term reductions
 - Water Supply Shortage Response Plan
- On-going conservation efforts
 - Rate structures, educational programs, rebates, sprinkler audits, etc.
 - Recent focus on commercial use
- Water efficiency goal of 130 gpcd by 2030



Fort Collins Utilities - Historical Demands, Projected Water Needs and Current Firm Yield



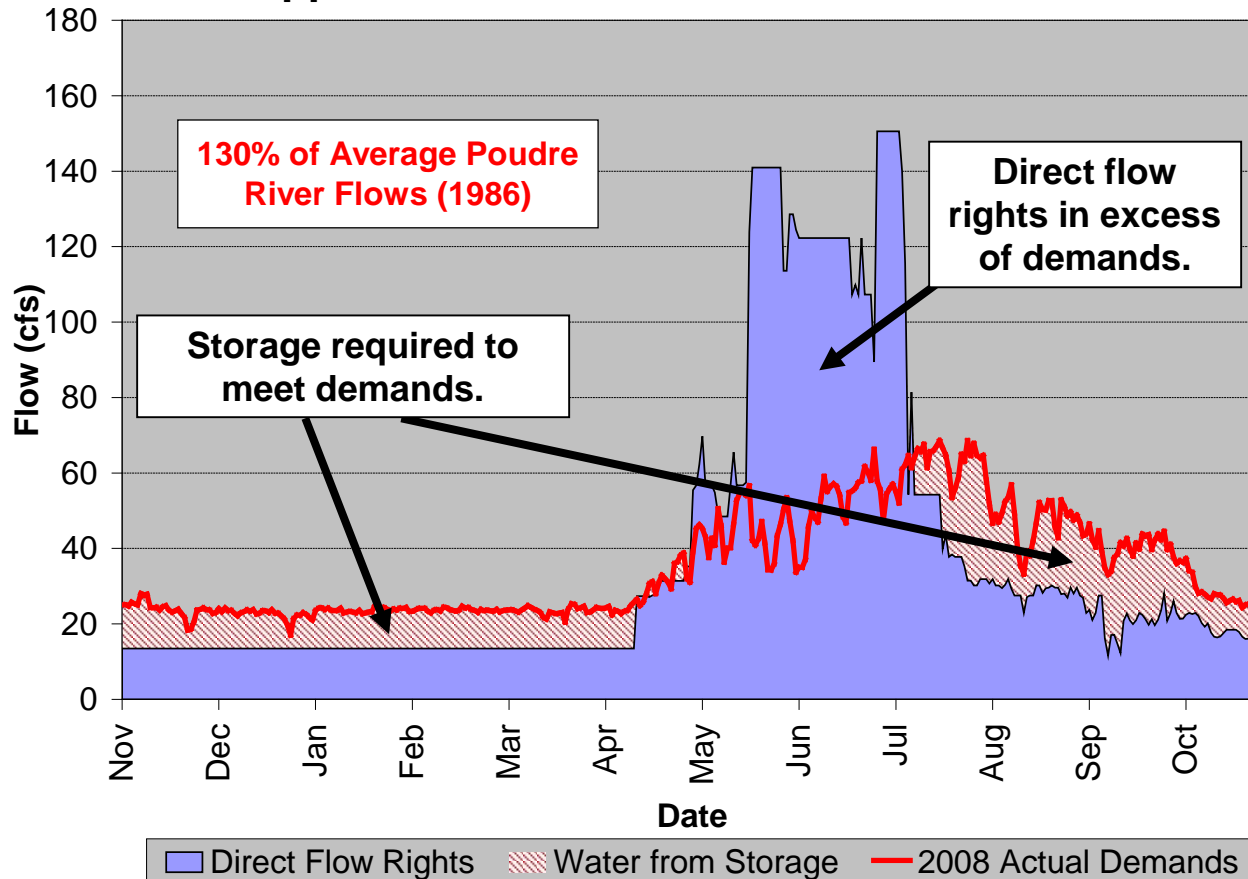
Service area
population increase:
2017 ~134,000
2065 ~178,000

Industrial growth:
~3,000 acre-feet/year

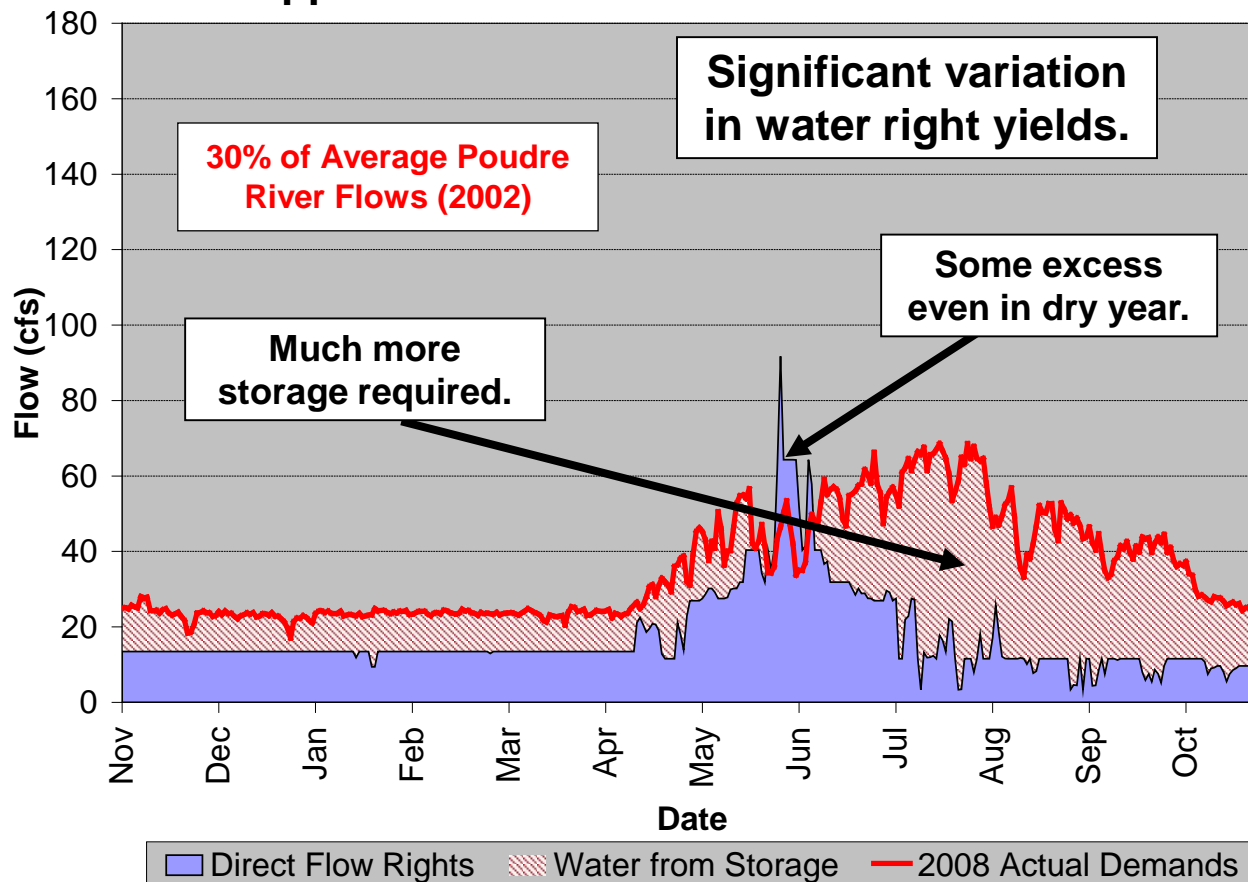
- Water Supply Requirements (recent changes)
 - Minimize additional water rights
 - Decreased volume required
 - Increased cash-in-lieu rate
- Acquire additional storage capacity
 - Manage existing rights
 - Increase firm yield



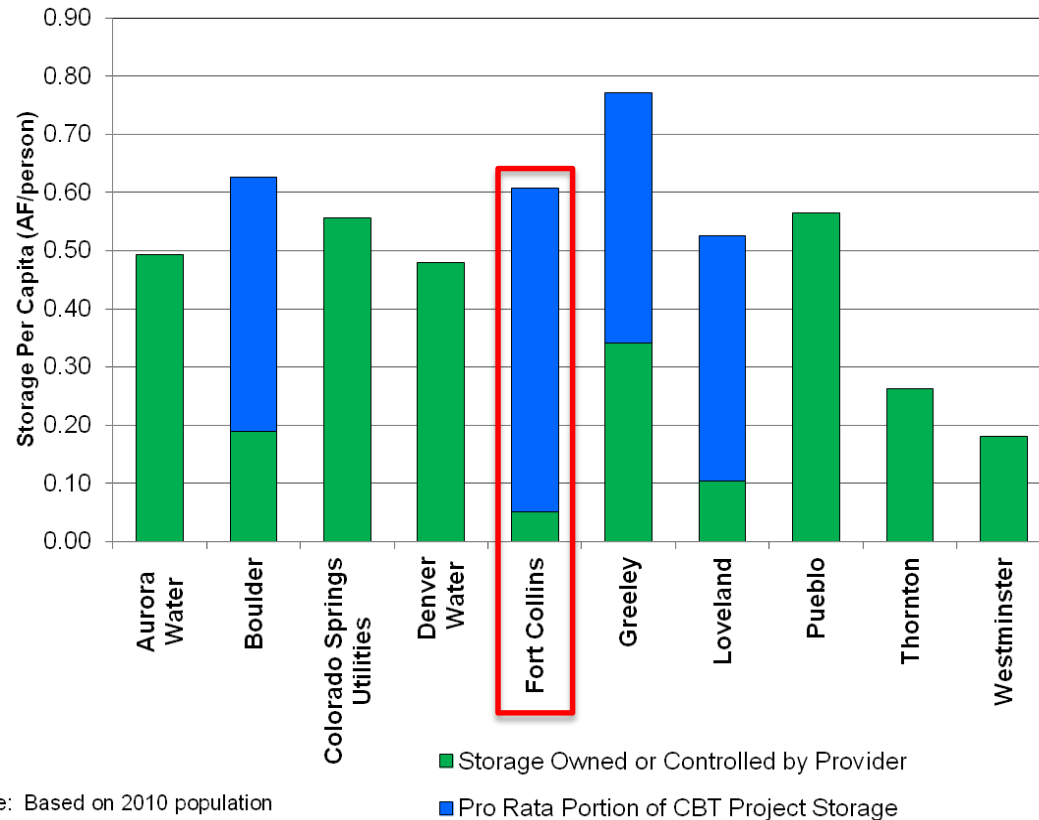
Water Supplies and Demands for Fort Collins Utilities



Water Supplies and Demands for Fort Collins Utilities



Storage per Capita Comparison



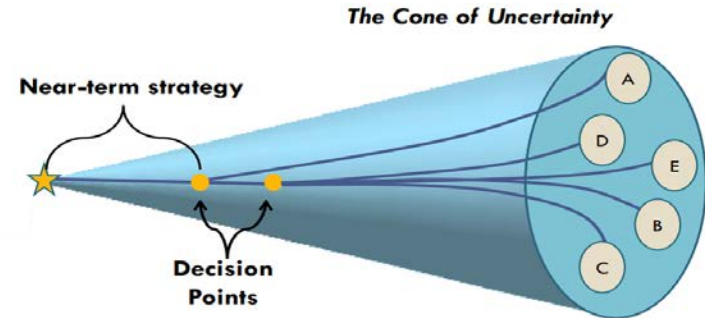
Note: Based on 2010 population

- Halligan Water Supply Project
 - Arduous permitting process
 - Considers other alternatives
- Investigating:
 - Aquifer Storage & Recovery (ASR)
 - NPIC Reservoirs 5 & 6
 - Potential project with Districts



Water Supply Vulnerability Study

- Completed in next year
 - Inform 2020 Water Supply & Demand Mgt. Policy update
- Exploring multiple scenarios
 - Climate change effects
 - Infrastructure failures
 - Demand variability
 - CBT impacts
- Embraces uncertainty



- Greater water needs by surrounding Districts
- Environmental (in-stream flow) needs
- Utilities exploring ways to use excess water
- Encourage ATMs, regional projects, etc.
 - Looking for increased firm yield
 - Requires permanence, certainty & control



- North Poudre Irrigation Company (NPIC)
 - Shares come with CBT and native rights
 - Utilities only uses CBT when needed; rents in most years
 - 2013: swapped native rights for CBT (1.5:1 ratio)
- Maxwell Ranch
 - Farm in NPIC service area & City separator zone
 - Purchased by Natural Areas, with some Utilities funds
 - Conservation easement; Utilities gets CBT portion of water

- Water Supply and Storage Company Shares
 - Converted Utilities shares to municipal use
 - Allowed for continued AG use
 - Requires special accounting





THANK YOU!