

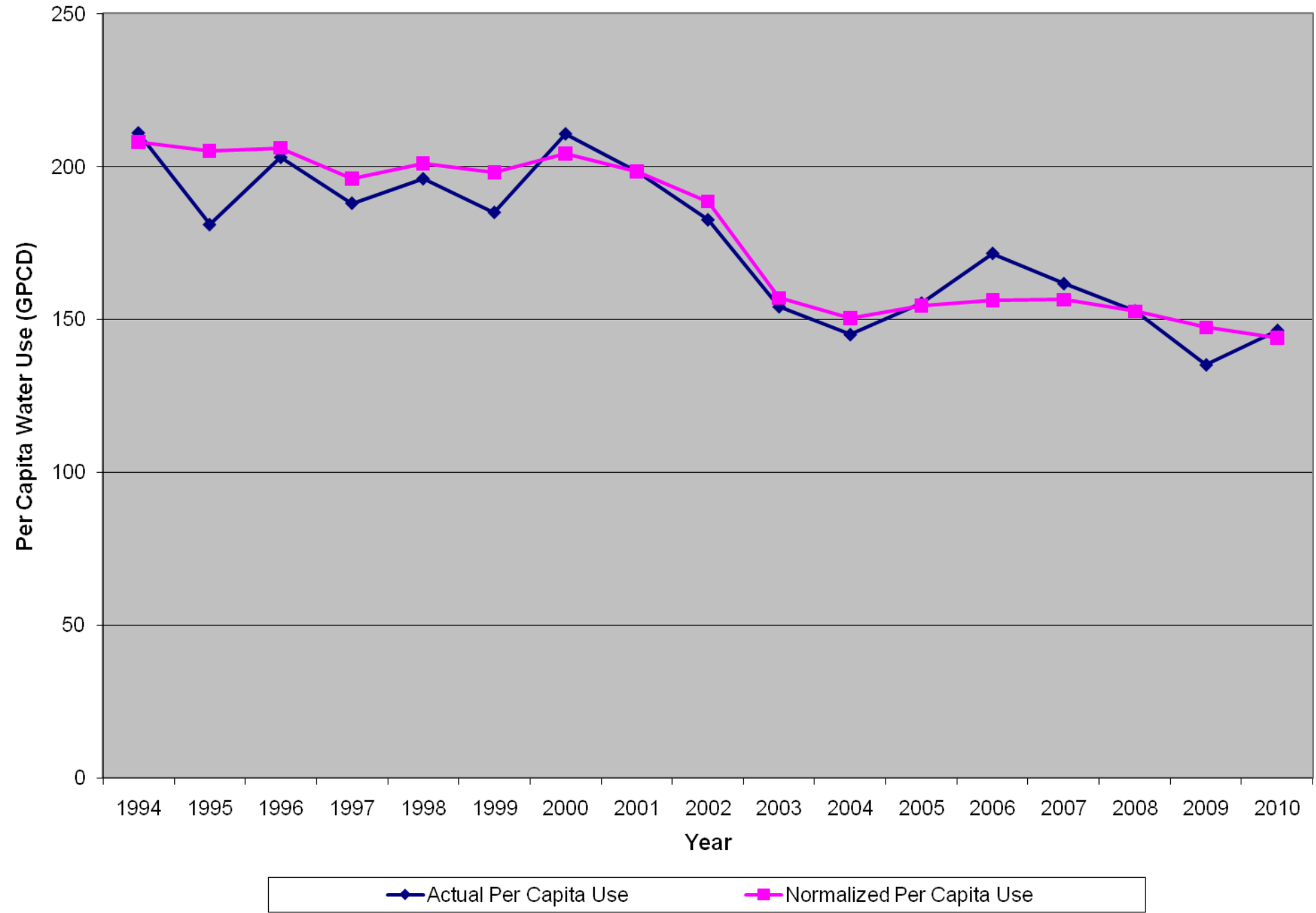
Fort Collins Water Use

Poudre Runs Through It
Study/Action Work Group
December 14, 2012

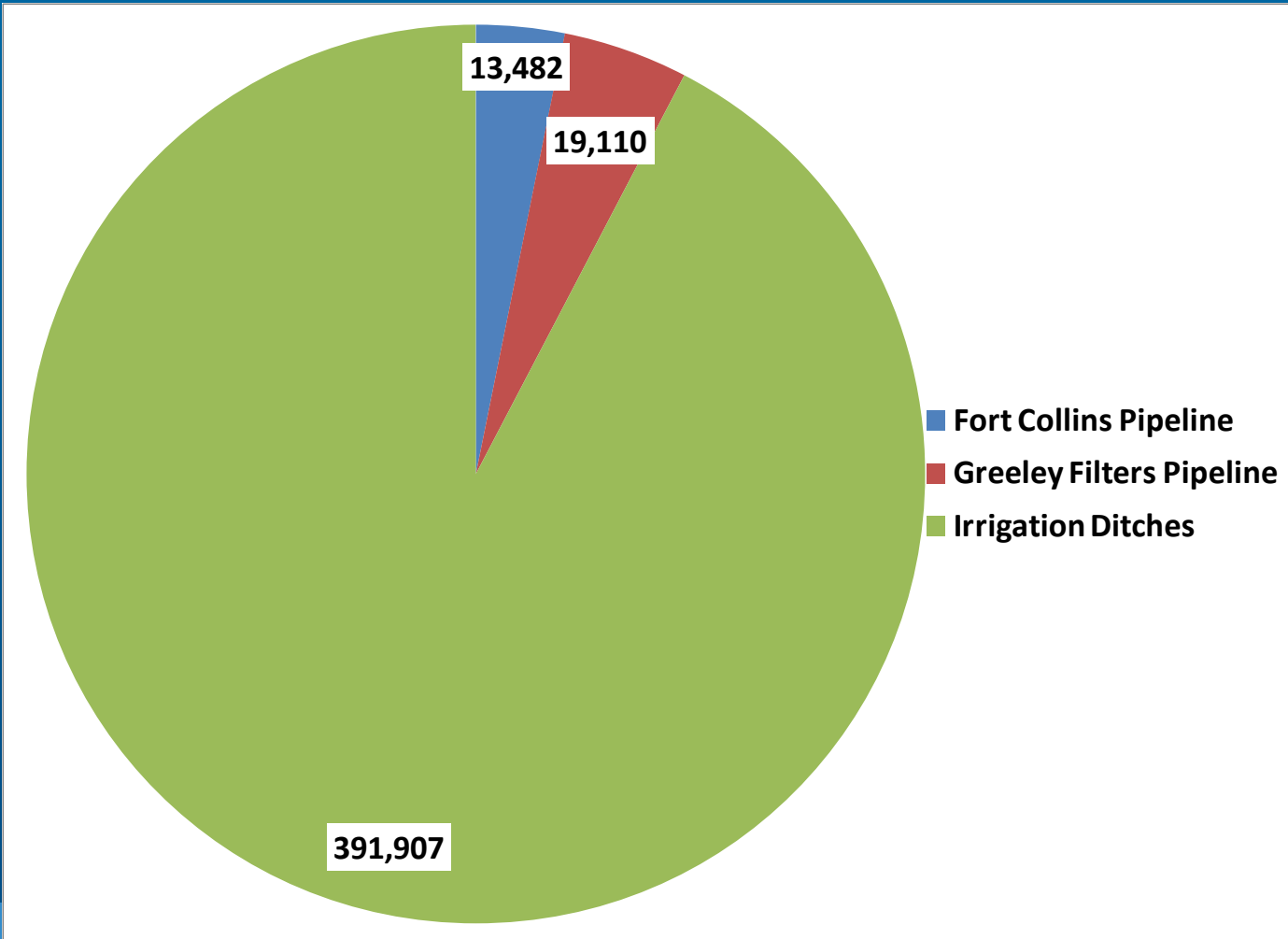
Water Demand (Use)

- Present Demands
 - Currently deliver about 26,000 ac-ft/year treated and 4,000 ac-ft/year of raw water
 - Demand levels have declined significantly
 - ~230 gpcd early 1990s
 - ~200 gpcd before 2002
 - ~150 gpcd over last several years

City of Fort Collins - Per Capita Water Use



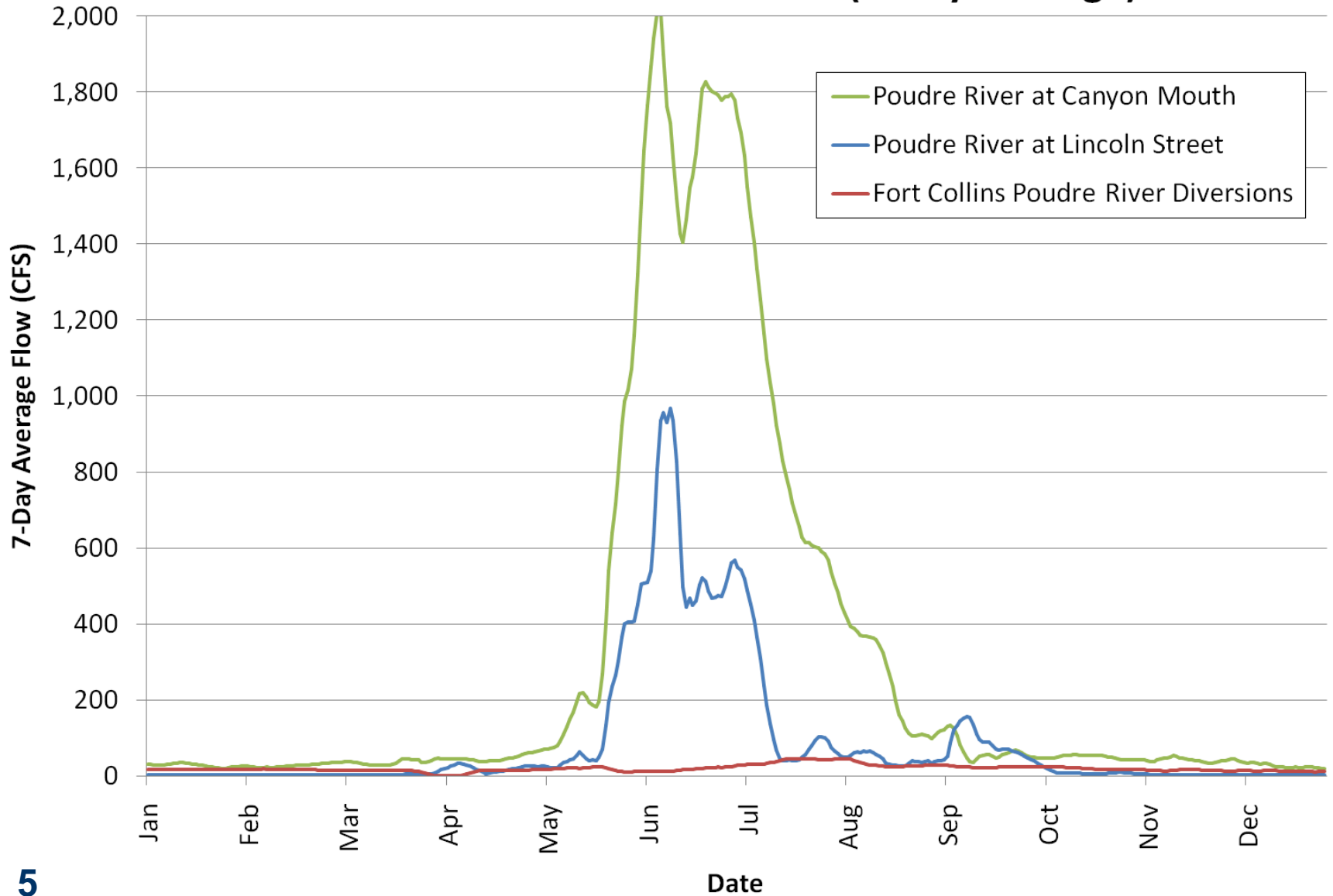
Poudre water uses



Average of 2000-2009 diversions

4 Source: CDSS

2008 Daily Poudre River Gaged Flow and Fort Collins Poudre River Diversions (7-Day Average)



City of Fort Collins Water Supply - Sources

Poudre River



CBT Project

Fort Collins Water Supply

- On average, about 50/50 split between Poudre River and Horsetooth Reservoir diversions
- Horsetooth Reservoir
 - Units from CBT project
 - Water from NPIC share ownership
 - Direct line from reservoir to WTF
- Poudre River
 - Senior direct flow rights
 - Converted agricultural rights
 - Michigan Ditch/Joe Wright Reservoir

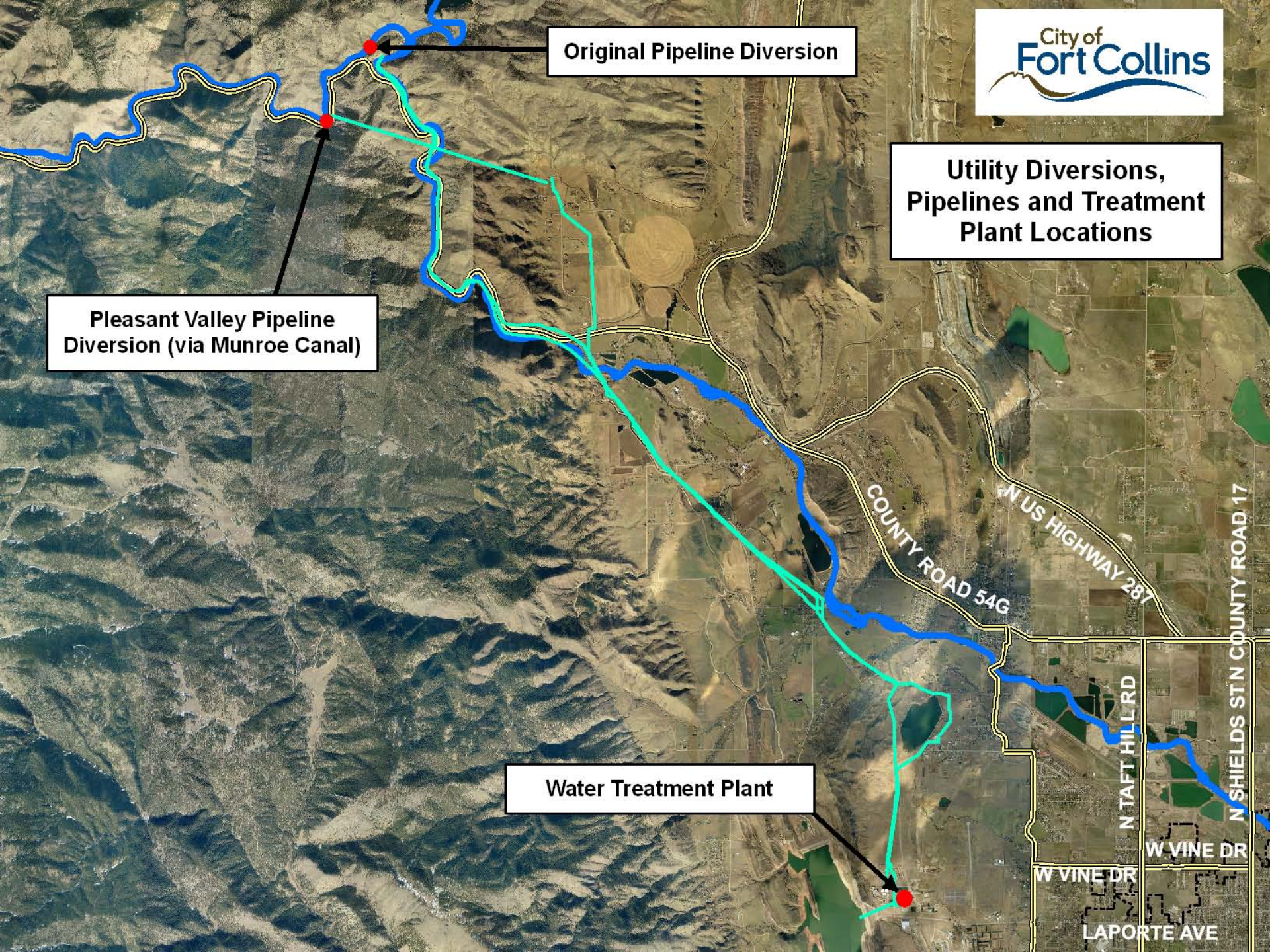


Original Pipeline Diversion

**Utility Diversions,
Pipelines and Treatment
Plant Locations**

**Pleasant Valley Pipeline
Diversion (via Munroe Canal)**

Water Treatment Plant



Poudre River

- Direct senior flow rights (late 1800s to early 1900s)
 - 19.93 cfs in the summer
 - 15 cfs in the winter
 - Specific rights to Fort Collins pipeline

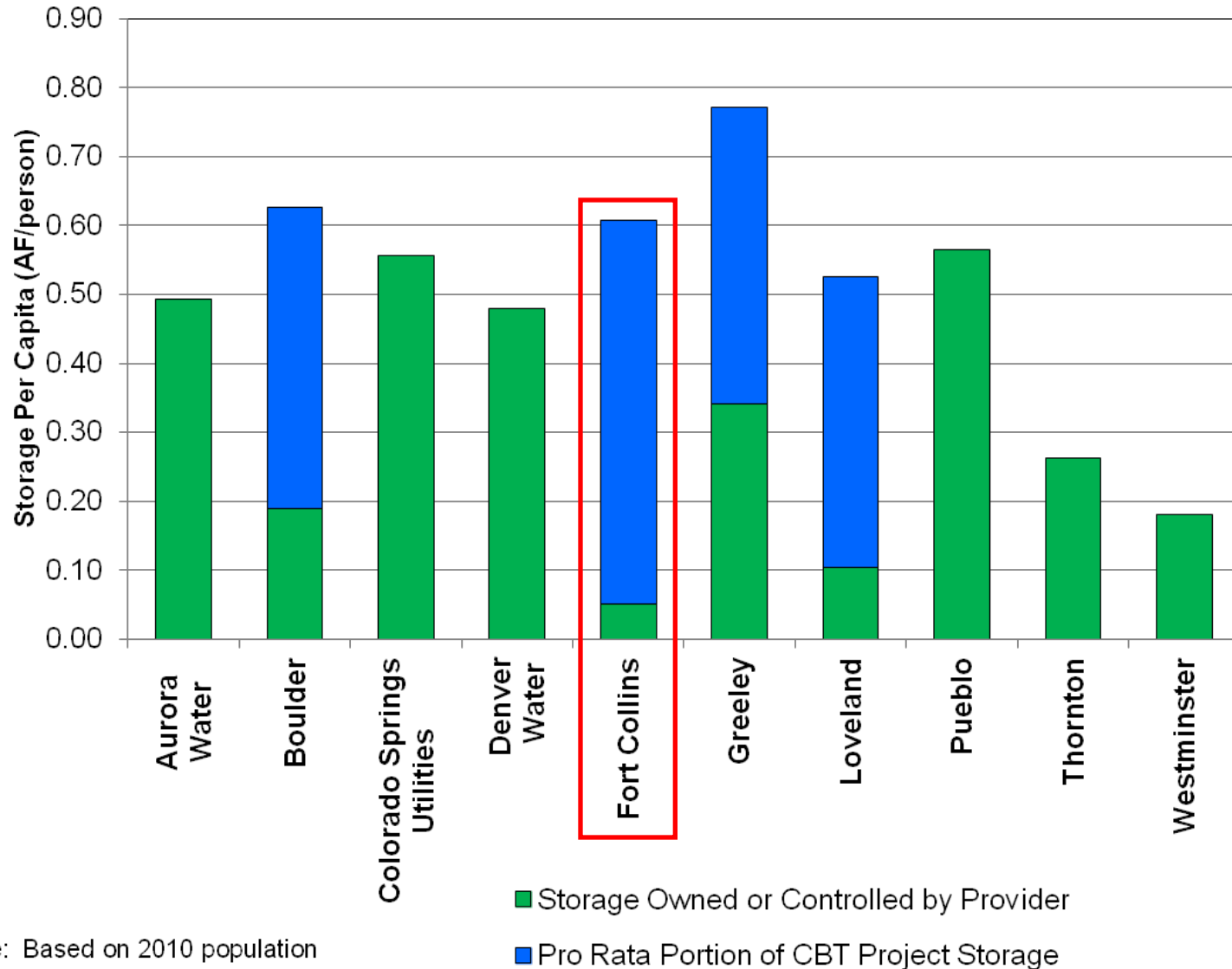
Poudre River

- Converted agricultural water rights (1970s to present)
- Irrigation ditches that run through the City
 - Pleasant Valley Lake and Canal
 - Arthur, Larimer No. 2, New Mercer, Warren Lake
- Water Supply and Storage Company
 - In process of converting rights
 - 4% of the Company
 - Innovative alternative to buy and dry

Poudre River

- Michigan Ditch/Joe Wright Reservoir
 - Located at Cameron Pass
 - Trans-basin diversion
 - Main source of the City's reusable water
 - Effluent to Platte River Power Authority

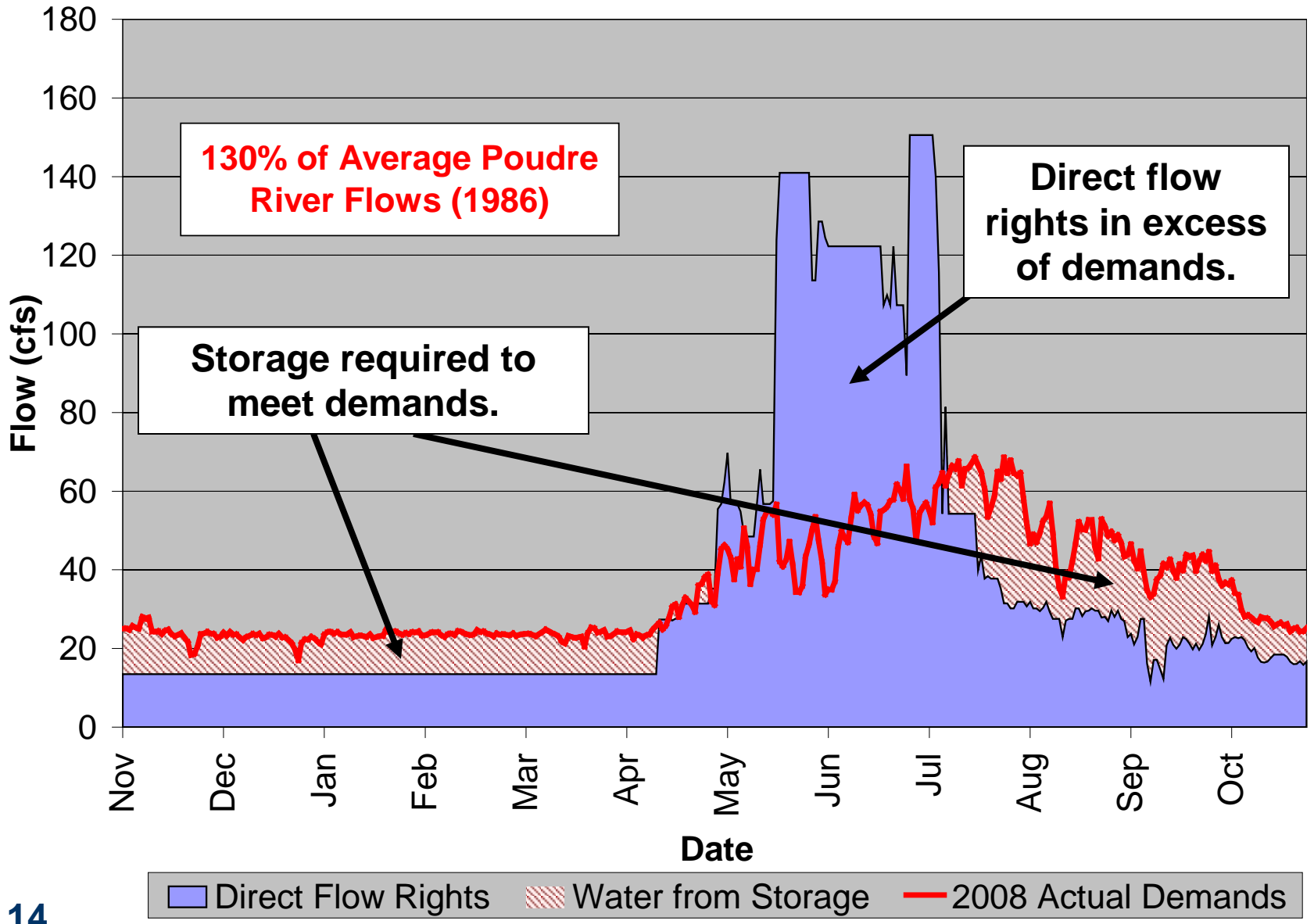
Storage per Capita Comparison



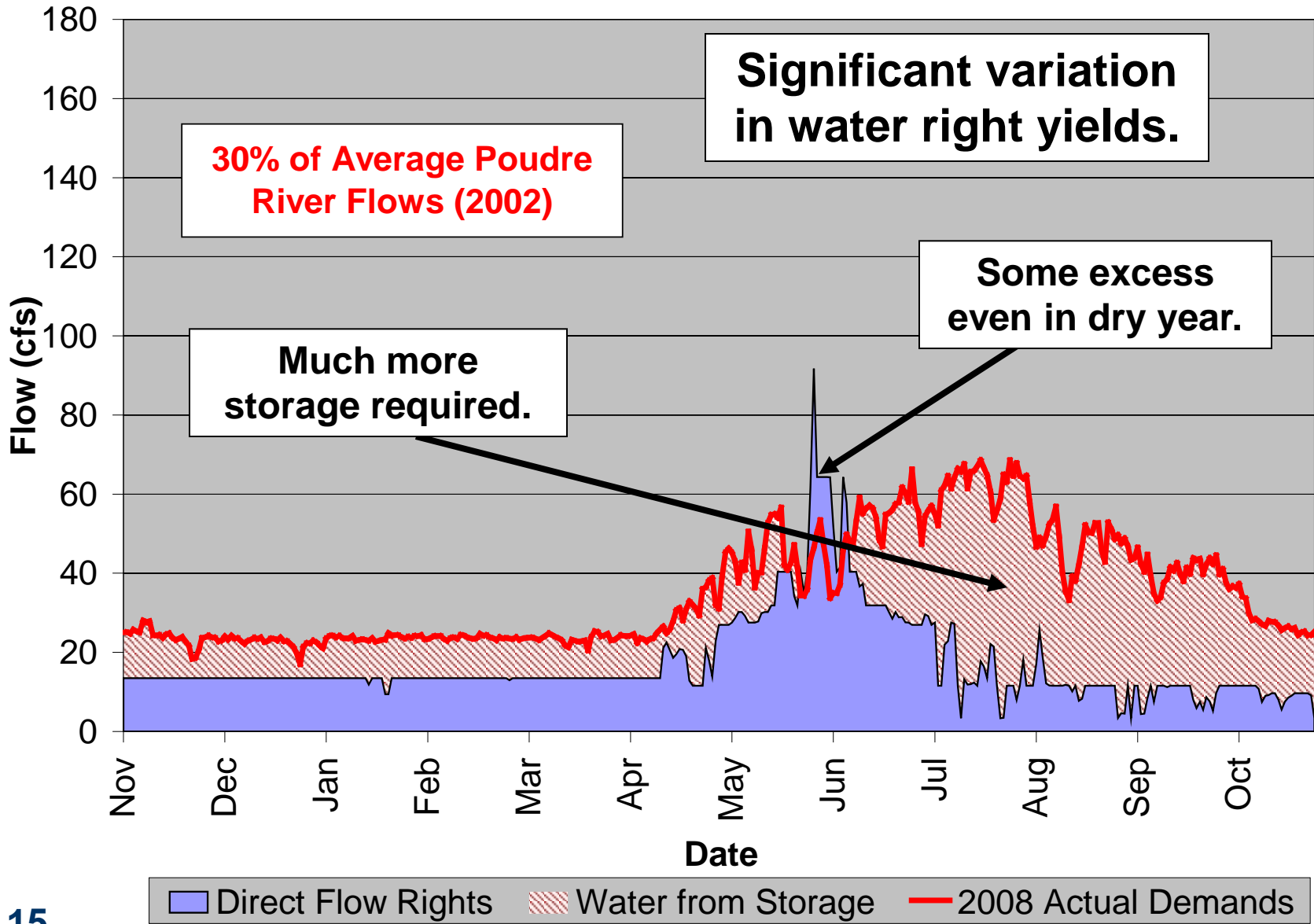
Water Supply

- Present Supply
 - Adequate supplies in most years
 - Based on 1-in-50 year drought criteria
 - 31,000 ac-ft/year treated water firm yield through 1-in-50 year drought
 - Surplus in wet and average years typically rented to agriculture

Water Supplies and Demands for Fort Collins Utilities



Water Supplies and Demands for Fort Collins Utilities



Surplus Raw Water

- Surplus water typically rented to agricultural users
 - Reduces customer rates
 - Only on year-to-year basis
 - Recognize interest in long-term arrangements
- Unused or unrented surplus water left in river
 - Distributed to next senior water right
 - Difficult to use for instream flows under current Colorado water law
- Utilities staff working with other City departments on initiatives to improve Poudre River flows

Cooperative Arrangements

- Joint Operating Plan - Wild and Scenic reach
 - WSSC, Greeley and Fort Collins (agreement)
 - November-March
 - FC releases 3 cfs
 - Joe Wright Reservoir & Chambers Lake
 - Greeley releases 7 cfs
 - Chambers Lake or other upper reservoirs

Cooperative Arrangements

- Winter Flows in North Fork
 - Fort Collins and NPIC (no agreement)
 - November through mid April
 - Fort Collins provides 500 AF to NPIC
 - Release ~1 cfs from Halligan Reservoir
 - Meets Fort Collins return flow obligations
 - Additional water provided to protect NPIC

Cooperative Arrangements

- Reduce River Dry Up Through Town
 - Fort Collins usually has excess CBT water in October due to dry-year demand planning
 - Water Fort Collins has no place to store
 - Water distributed to winter diverters that dry up river
 - Allows water to go past their headgates
 - Year to year basis – only done a few times

Questions