Poudre River Forum

A Working River: Water for Cities and Towns

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Lee Rozaklis
AMEC Environment & Infrastructure
(formerly Hydrosphere)
lee.rozaklis@amec.com
The Poudre supplies water to...

- Twelve cities and towns
- More than 300,000 people
- Two major universities
- More than 9,000 businesses
- One regional power plant
Major M&I Water Providers

- City of Fort Collins
- City of Greeley
- Tri-Districts
  - Fort Collins-Loveland Water District
  - North Weld County Water District
  - East Larimer County Water District
- City of Thornton (future)
City of Fort Collins

- Service area population ≈ 130,000
- Also supplies water to: West Fort Collins WD, large industrial users (Anheuser-Busch), Rawhide Power Plant via reuse plan
- Water use ≈ 29,000 AF (treated and ditch water)
- Water supplies: Colorado River, Poudre River, Michigan River
- Storage: Joe Wright Reservoir (6,500 AF)
- Water from Poudre ≈ 13,000 AF (treated and ditch water)
City of Greeley

- Service area population ≈ 100,000
- Also supplies water to: Kodak, Evans, Windsor, Milliken
- Water use ≈ 30,000 AF (treated and raw water)
- Water supplies from Poudre River, Big Thompson River, Colorado River, Laramie River
- Storage: Five high mountain reservoirs (8,000 AF), Milton Seaman Reservoir (5,000 AF)
- Water from Poudre ≈ 15,000 AF (treated and raw water)
Tri-Districts: Where Are They?
Tri-Districts

- Combined service area population ≈ 100,000
- Rural Larimer & Weld counties, Ault, Eaton, Galeton, Gill, Lucerne, Pierce, Severance, Timnath, Windsor, parts of Fort Collins & Loveland
- Water use ≈ 22,000 AF (treated and raw water)
- Water supplies from Colorado River, Poudre River, Laramie River
- No owned storage, rely on CBT project
- Water from Poudre ≈ 2,000 AF (treated and raw water)
## Existing M&I Uses

<table>
<thead>
<tr>
<th>Provider</th>
<th>Total Water Use</th>
<th>Water from Poudre</th>
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</thead>
<tbody>
<tr>
<td>Fort Collins</td>
<td>29,000 AF</td>
<td>13,000 AF</td>
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<tr>
<td>Greeley</td>
<td>30,000 AF</td>
<td>15,000 AF</td>
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<tr>
<td>Tri-Districts</td>
<td>21,000 AF</td>
<td>2,000 AF</td>
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<tr>
<td>Totals</td>
<td>80,000 AF</td>
<td>30,000 AF</td>
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</tbody>
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M&I & Irrigation Diversions of Poudre River Water

30,000 AF

250,000 AF

Irrigation Diversions

M&I Diversions
M&I Demand Trends

- Since 2002, per capita uses have generally declined by about 20%.
- Overall uses have declined by 10% - 15% while populations have grown by 10%.
- Indoor per capita uses continue to decline due to advances in technology.
- Outdoor per capita uses also declining, but not as much.
M&I Wastewater

- Fort Collins (Drake WWTP) 10 MGD
- Fort Collins (Mulberry WWTP) 4 MGD
- South Fort Collins Sanitation District 2.8 MGD
- Box Elder Sanitation District 2.5 MGD
- Windsor 1.3 MGD
- Kodak 1.0 MGD
- Significant amount of reuse: Anheuser Busch, Rawhide Power Plant
M&I Water Use – The Future

- Population growth (endless?)
- Continued savings in indoor uses (maybe 25%)
- Water loss reduction: a no-brainer
- Some near-term savings in outdoor use (how much without impacting level of “urban green”?)
- Climate change:
  - Earlier snowmelt - loss of “free storage”
  - Outdoor uses: eventually greater unit demands or a “less green” urban environment
Overall, M&I water demand is projected to grow by more than 60% by 2050

Fort Collins & Greeley: full use of CBT and changed irrigation rights, more storage

Tri-Districts: use of Poudre supplies, more storage

More storage, but where? Could it come from partnerships with agriculture?

Thornton: Northern Supply Project delivery options: could a river run through it?