Platte Valley Water Partnership

Pioneering a Collaborative and Sustainable Water Future

PRESENTATION TO:
COLORADO HOUSE AGRICULTURE, LIVESTOCK AND WATER COMMITTEE
FEBRUARY 7TH, 2022
The Journey to Our Partnership
Realizing Ideas…

- Colorado’s Water Plan
- South Platte Basin Implementation Plan
- South Platte Storage Study
- SPROWG Feasibility Study
- Northeast Colorado Water Cooperative
- Parker Water Long Term Water Supply Plan
Municipal and Industrial Demands Continue to Increase!
Significant Agricultural Shortages Exist.

Figure 6. Baseline and 2050 Projected Average Annual Agricultural Diversion Demand, Demand Met, and Gaps

SOUTH PLATTE
<table>
<thead>
<tr>
<th>Statistic</th>
<th>Physical Water Leaving Colorado (Julesburg Gage)</th>
<th>Water Delivered to Nebraska in Excess of the Compact (1)(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Median (ac-ft/yr)</td>
<td>331,000</td>
<td>293,000</td>
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<tr>
<td>Annual Average (ac-ft/yr)</td>
<td>436,000</td>
<td>397,000</td>
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<tr>
<td>Minimum Year (ac-ft/yr)</td>
<td>29,000</td>
<td>10,000</td>
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<tr>
<td>Maximum Year (ac-ft/yr)</td>
<td>1,957,000</td>
<td>1,904,000</td>
</tr>
<tr>
<td>Total for 20-yr Period 1996-2015 (ac-ft)</td>
<td>8,728,000</td>
<td>7,939,000</td>
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(1) Storable flow Julesburg gage
(2) Future environmental flow obligations could reduce legally available water.
**Existing Service Area:**
- 56,000+ Residents
- 44+ square miles
- Town of Parker
- City of Lone Tree
- City of Castle Pines
- Unincorporated Douglas County

**Build-out (2050)**
New Developments to the South and West
- 117,000-120,000 Residents
Project Vision
Benefitting both worlds

• **PWSD Supply Gap**
  • 75% Renewable by 2035
  • Demand shortage in 2035-2040

• **Avoids “Buy and Dry”**
  • Optimizes available water
  • Sets parameters for Municipal/ Agricultural partnership
  • Establishes guidelines "types of water" in system

• **LSPWCD Water Supply**
  • Addresses local needs
  • Develops critical habitat

• **Optimizes Existing Infrastructure**
• **Iliff Reservoir** – 6,500 ac-ft
• **Prewitt Reservoir** – 6,500 ac-ft forebay utilizing existing infrastructure
• **Trade** between Iliff and Prewitt Reservoirs.
• **Fremont Butte Reservoir** – 72,000 ac-ft, up to 250 cfs pumped and piped from Prewitt Reservoir (Phase II).
HISTORIC AVERAGE ANNUAL EXCESS DELIVERY: 274,322 ac-ft
PHASE 1 ANNUAL EXCESS DELIVERY: 240,032 ac-ft
PHASE 2 ANNUAL EXCESS DELIVERY: 223,369 ac-ft

LEGEND
- HISTORIC STATELINE EXCESS FLOW
- PHASE 1 STATELINE EXCESS FLOW
- PHASE 2 STATELINE EXCESS FLOW

Note: Compact delivery commitment is 120 cfs for 199 days (April 1 - October 15, 472,282 ac-ft)
Next Steps:
Where do we go from here...

• **Current**
  ◦ Water Rights Decree
  ◦ Parker WSD – LSPWCD agreement
  ◦ Prewitt Operating agreement

• **Near Future**
  ◦ Local and Regional Outreach
  ◦ Conveyance agreements
  ◦ Fremont Butte landowners

• **Planned**
  ◦ Permitting
  ◦ Advanced design, costs, financing, etc.
  ◦ Water delivery 2035+
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Ron Redd, District Manager of PWSD

Questions?