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

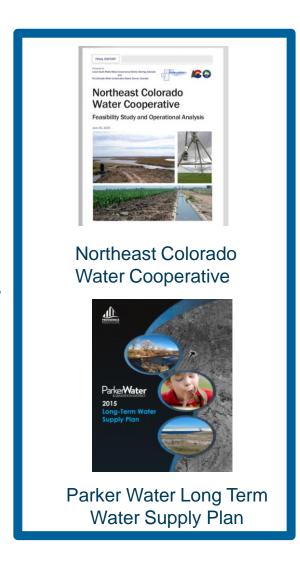






Realizing Ideas...







Municipal and Industrial Demands Continue to Increase!



Figure 3. Baseline and 2050 Projected Population and Municipal Demands

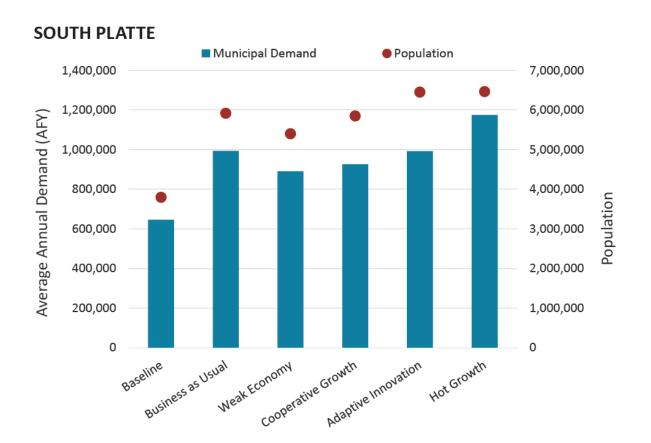
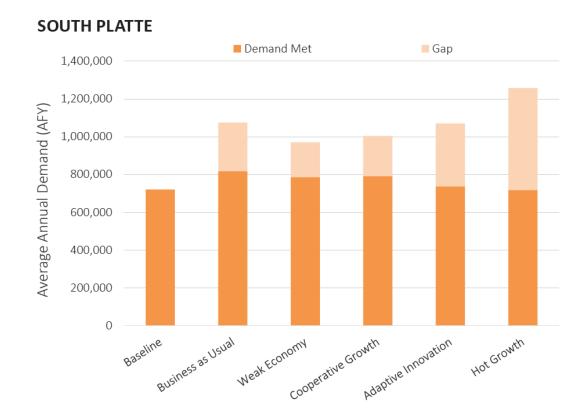


Figure 4. Baseline and 2050 Projected Maximum Annual M&I Demand Met and Gaps

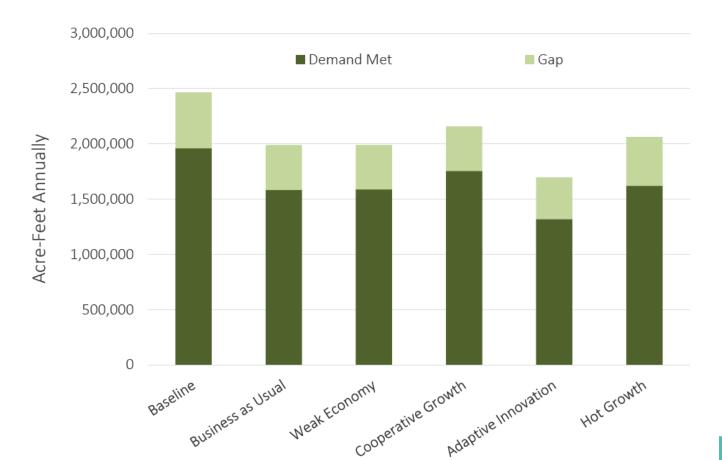


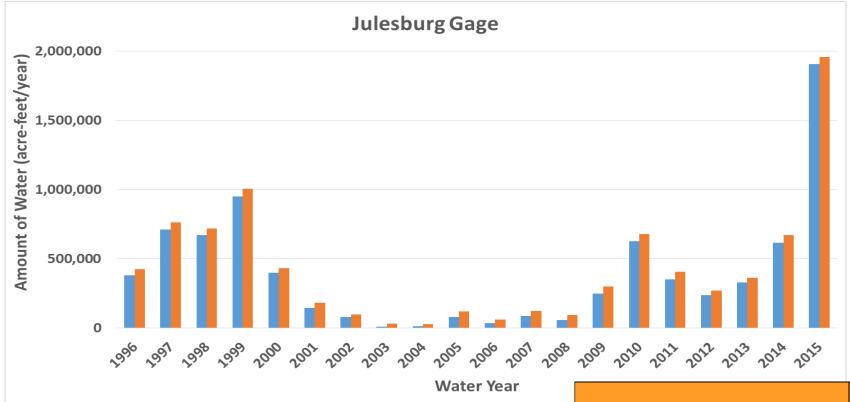
Significant Agricultural Shortages Exist.



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

SOUTH PLATTE





■ Water Delivered to Nebraska in Excess of the Compact

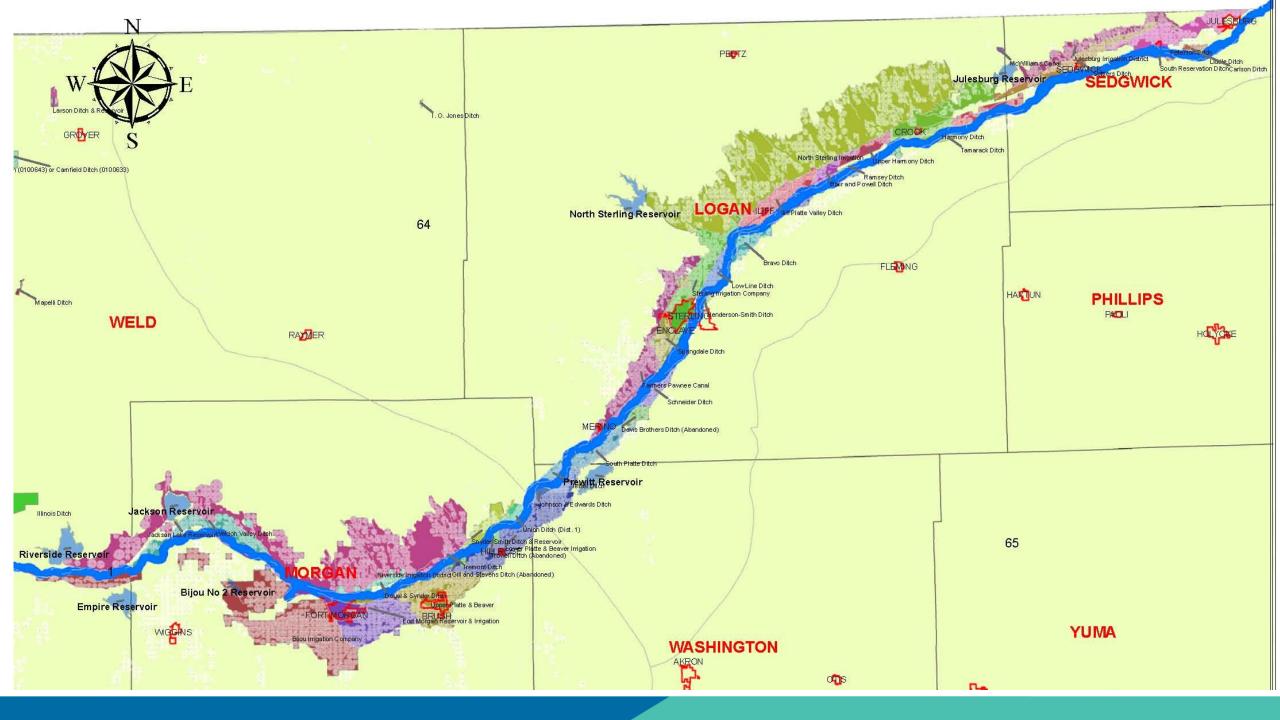
■ Physical Water Leaving Colorado



Statistic	Physical Water Leaving Colorado (Julesburg Gage)	Water Delivered to Nebraska in Excess of the Compact (1)(2)
Annual Median (ac-ft/yr)	331,000	293,000
Annual Average (ac-ft/yr)	436,000	397,000
Minimum Year (ac-ft/yr)	29,000	10,000
Maximum Year (ac-ft/yr)	1,957,000	1,904,000
Total for 20-yr Period 1996-2015 (ac-ft)	8,728,000	7,939,000

⁽¹⁾ Storable flow Julesburg gage

⁽²⁾ Future environmental flow obligations could reduce legally available water.



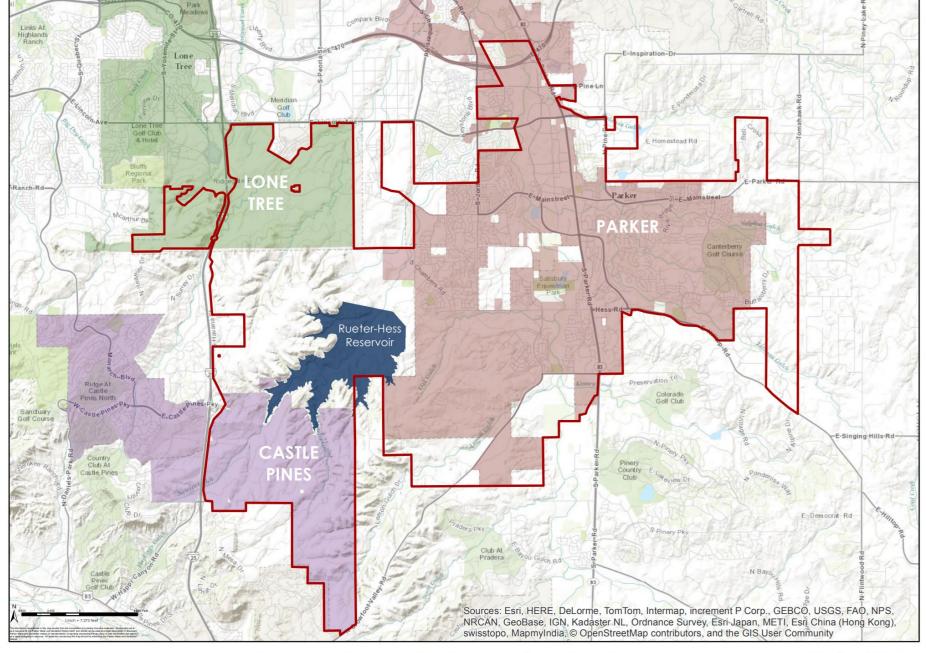


Existing Service Area:

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

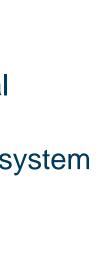
Benefitting both worlds



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

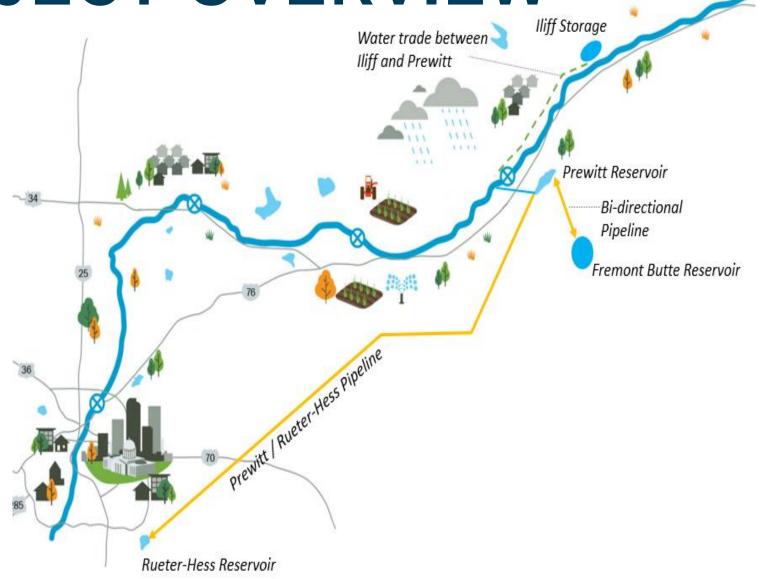






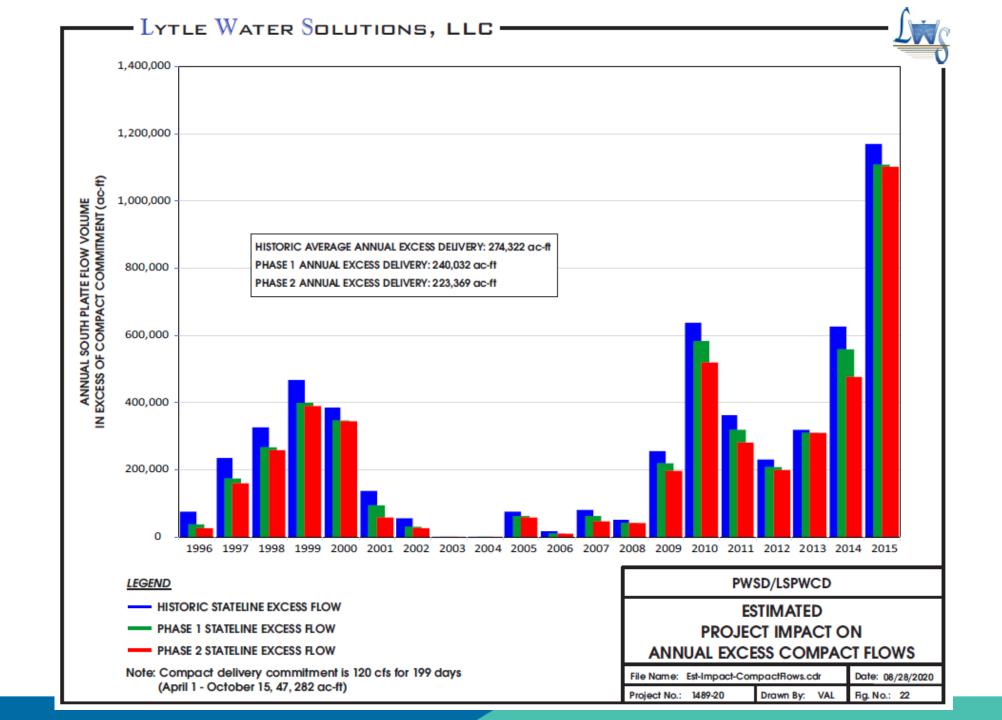
PROJECT OVERVIEW

- **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).









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

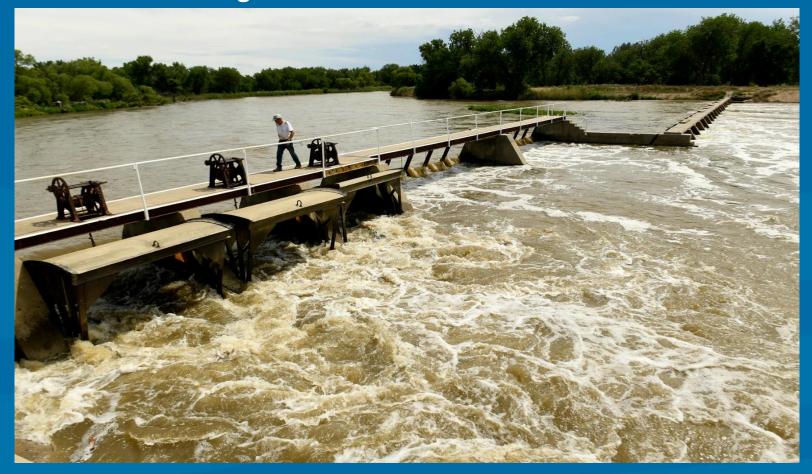
- Permitting
- Advanced design, costs, financing, etc.
- Water delivery 2035+



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Joe Frank, General Manager of LSPWCD Ron Redd, District Manager of PWSD

Questions?