

WATER DIVISION

CONSERVATION PLAN



Utility Board, Oct 12, 2022 --- Work Session, Nov 15, 2022 --- City Council Adoption, Dec 6, 2022



PURPOSE OF WATER CONSERVATION PLAN

- Assess Water Conservation Alternatives
- Set Reasonable Goals to Conserve Water
- Identify Methods & Measures to Reach These Goals
- Addresses Future Water Needs
- City's Ability to Meet Those Needs





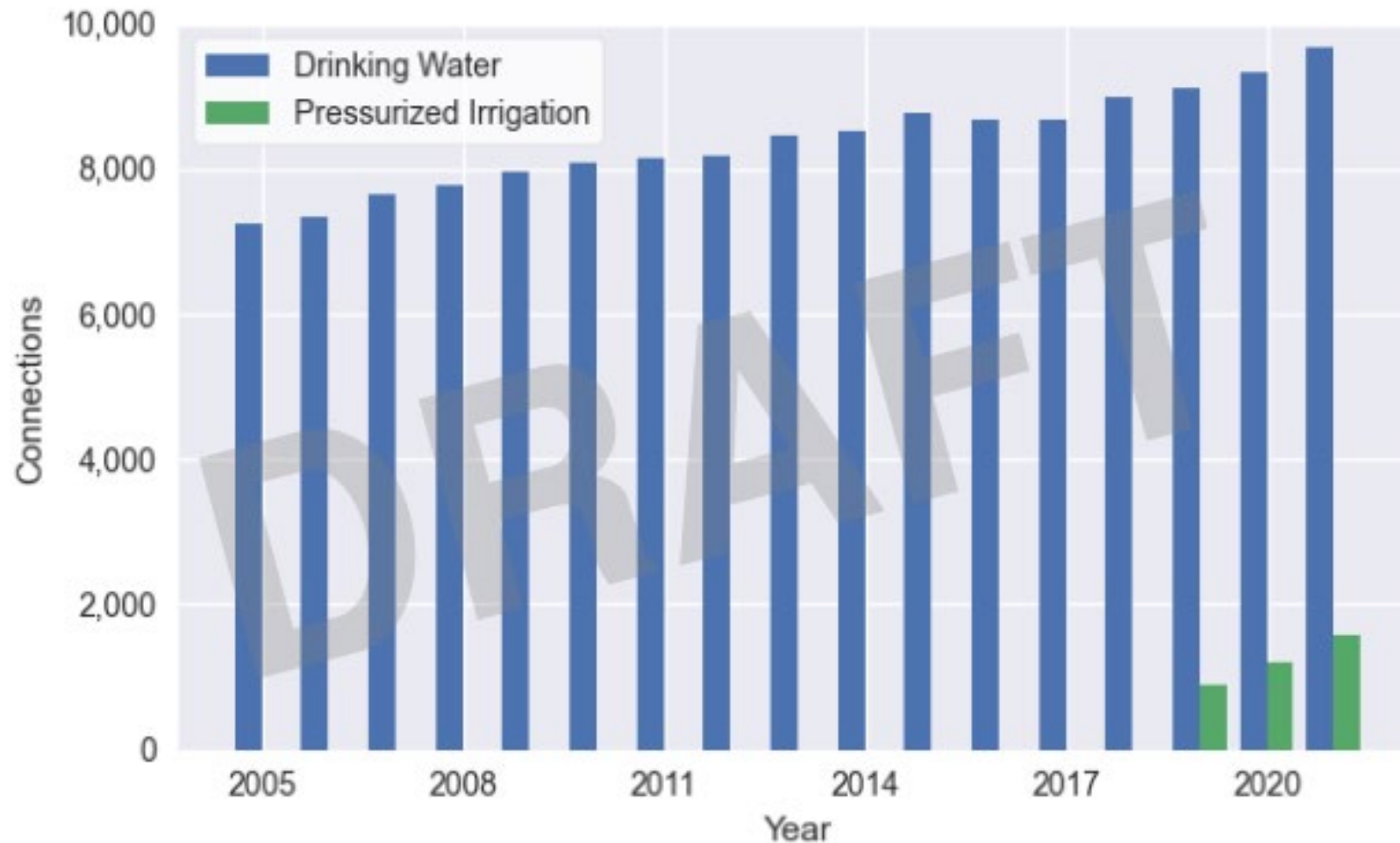
UTAH REGIONAL 2030 WATER CONSERVATION GOAL

- Provo River Region Goal - 179 gpcd.
- 20% reduction of the 2015 Baseline of 222 gpcd.





WATER CONNECTIONS



- PI Connections
- 2019 - 894
 - 2021 - 1,399

Figure 1: Total Service Connections



RELIABLE WATER SUPPLY

Table 2-4: Reliable Water Supply

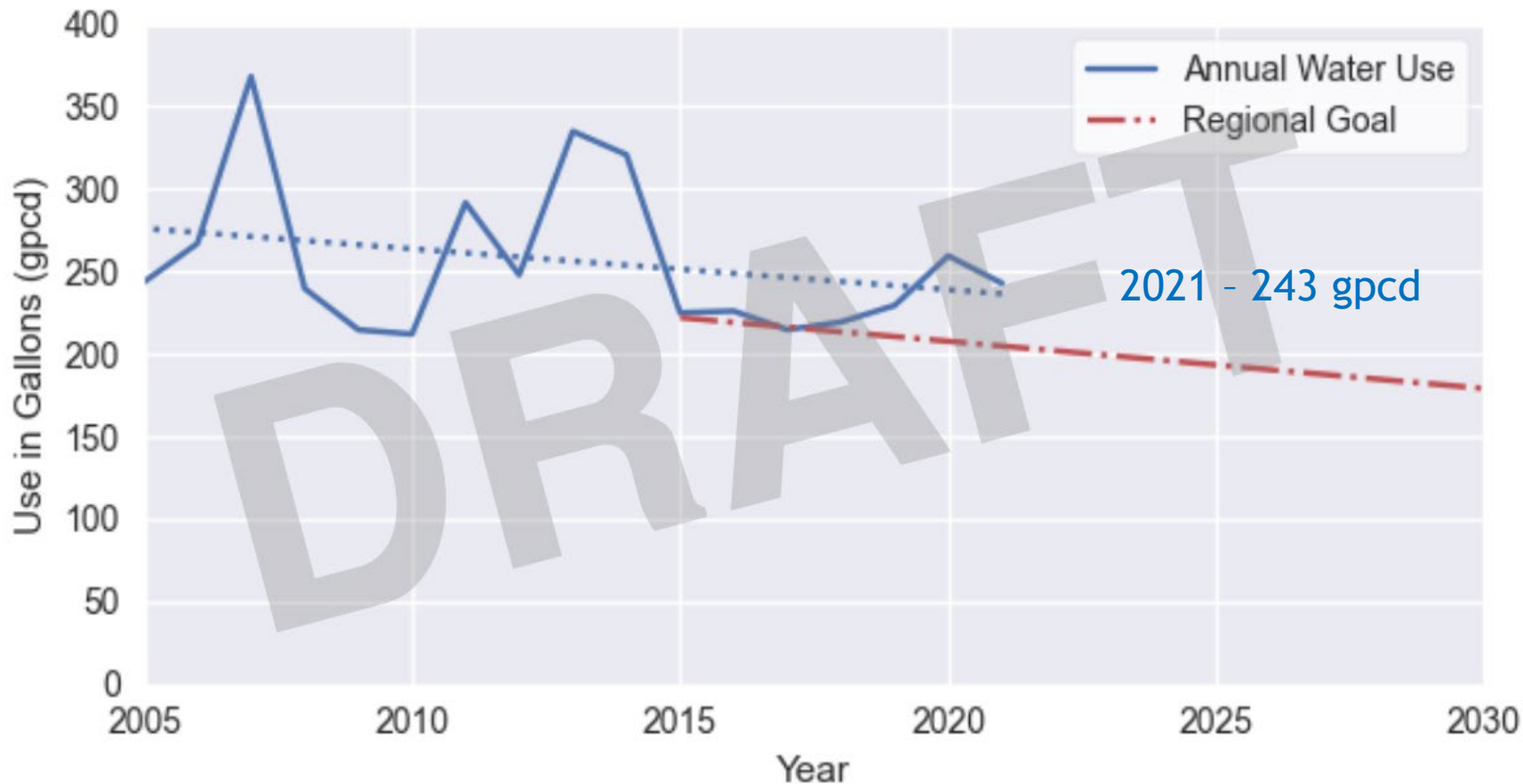
System	Annual Capacity (Acre-feet)
Drinking Water System	15,831
Pressurized Irrigation System	3,097
Total	18,928
ULS Water	4,945
Total with ULS Water	23,873





UTAH REGIONAL 2030 WATER CONSERVATION GOAL

- Provo River Region Goal - 179 gpcd.





WATER LOSS CONTROL

- EPA - Public Water System Losses - 16%
- Springville City
 - 2017 - 15.8%
 - 2018 - 14.6%
 - 2019 - 8.9%
 - 2020 - 17.5%
 - 2021 - 12.3%

Annual Leak Detection Program





BILLING RATES - CULINARY / SECONDARY

- Tiered Water Rates

Water Utility Fees		
	Approved Fee	Additional Conditions
Residential Customers (No Secondary Water Available):		
Base monthly fee	16.32	
Charges per 1,000 gallons of usage based on a 30-day reading period:		Rates apply March to October when water meters are read monthly
0-5,000	Included in Base	
5,001-12,000	1.00	
12,001-20,000	1.32	
20,001-40,000	1.64	
40,001-60,000	1.95	
60,001-100,000	2.22	
100,001-150,000	3.01	
150,001-200,000	3.43	
Over 200,000	4.22	
Base monthly fee	16.32	Rates apply October to March when meters are not read monthly
Charges per 1,000 gallons of usage per month:		
0-5,000	Included in Base	
Over 5,000	1.21	
	-	

Water Utility Fees		
	Approved Fee	Additional Conditions
Secondary Water		
Residential Customers		
Secondary Water Base Monthly Fee	No Fee	
Charges per 1,000 gallons of usage based on a 30-day reading period:		Rates apply March to October when water meters are read monthly
0-5,000	Included in Base	
5,001-20,000	0.91	
20,001-60,000	1.43	
60,001-100,000	1.90	
100,001-150,000	2.38	
150,001-200,000	2.85	
Over 200,000	3.80	
	-	



BEST MANAGEMENT PRACTICES

Table 5-2: Best Management Practices

Best Management Practice	Description
Previous BMPs	
Promote the "Slow the Flow Program"	Promote the "Slow the Flow Program" sponsored by the state to residents. Encourage them to take advantage of the opportunities the program provides.
Require Low Flow Indoor Fixtures	Require low flow indoor fixtures on all new construction in city code.
Tiered Water Rate Structure	Continue to use and periodically refine the tiered water rates for both water systems.
Leak Testing	Continue to test for leaks in all water lines. Test before overlaying asphalt, and continue testing with third party company.
Annual Leak Surveys	Perform annual leak surveys to test for unsurfacing leaks, especially in older parts of the water system.
Meter & Pipe Replacement Program	Continue to replace aging meters and pipelines throughout the City. Install more efficient water meters when replacing old meters.
Pressurized Irrigation System	Continue to expand the pressurized irrigation system according to city master plans.
Water Waste Complaints	Encourage residents to notify the City of water waste. Respond to the complaints when possible.
Weekly Water Waste Report	Receive the weekly water waste report from the Division of Water Resources. Act on any recommendations or issues raised in the reports.
Meter Replacement Program	Replace aging meters that do not meet American Water Works Association standards.

Proposed BMPs	
Pressurized Irrigation Meters	Install efficient water meters in the pressurized irrigation system as the system expands.
Implement CUWCD Water Conservation Measures	Offer CUWCD conservation resources to city residents. Encourage residents to take advantage of rebates and classes offered by CUWCD and its partners.



CUWCD - WATER EFFICIENCY STANDARDS

- Landscaping Requirements
 - Lawns
 - No lawn less than 8 feet wide.
 - Lawn not to exceed 35% of total landscape area (Commercial 20%)
 - Small lot exemption (no back yards, landscape area < 250 sq ft).
 - No lawn in park strips.
 - Planting Beds
 - 3 - 4 inches of mulch.
 - Irrigation Equipment
 - Drip or bubblers required, except lawns.
 - Separate irrigation zones (lawn vs plant beds).
 - SmartSense irrigation controller.



SOUTH UTAH COUNTY CITIES - ACTUAL / GOAL

CITY	ACTUAL (gpcd)		GOAL (gpcd)	TARGET DATE
Provo	170	2017	190	2025
Springville	233	2016-2021	179??	2030
Spanish Fork	199	2019	165	2050
Salem	360	2019	247	2030
Payson	318	2020	179	2030

WATER DIVISION



QUESTIONS?