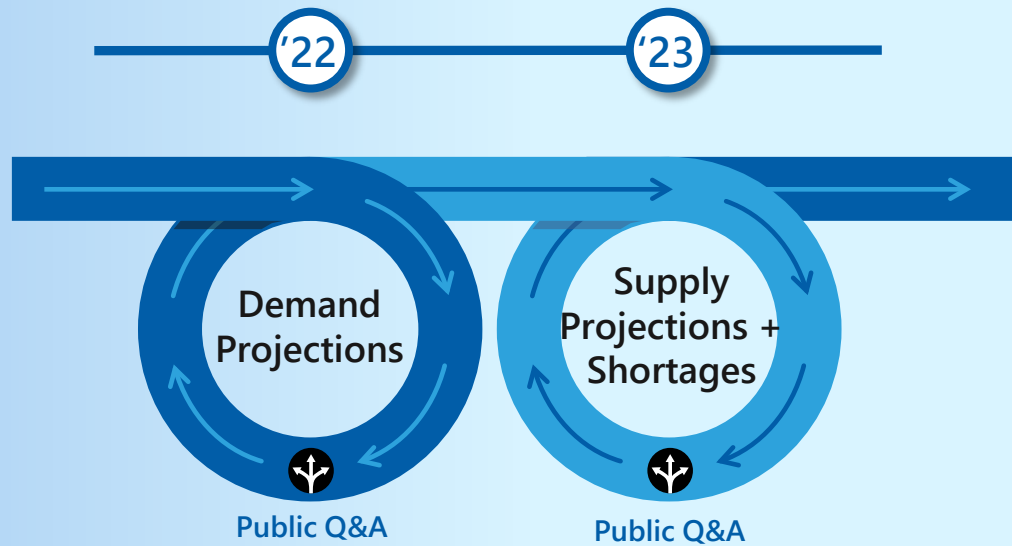
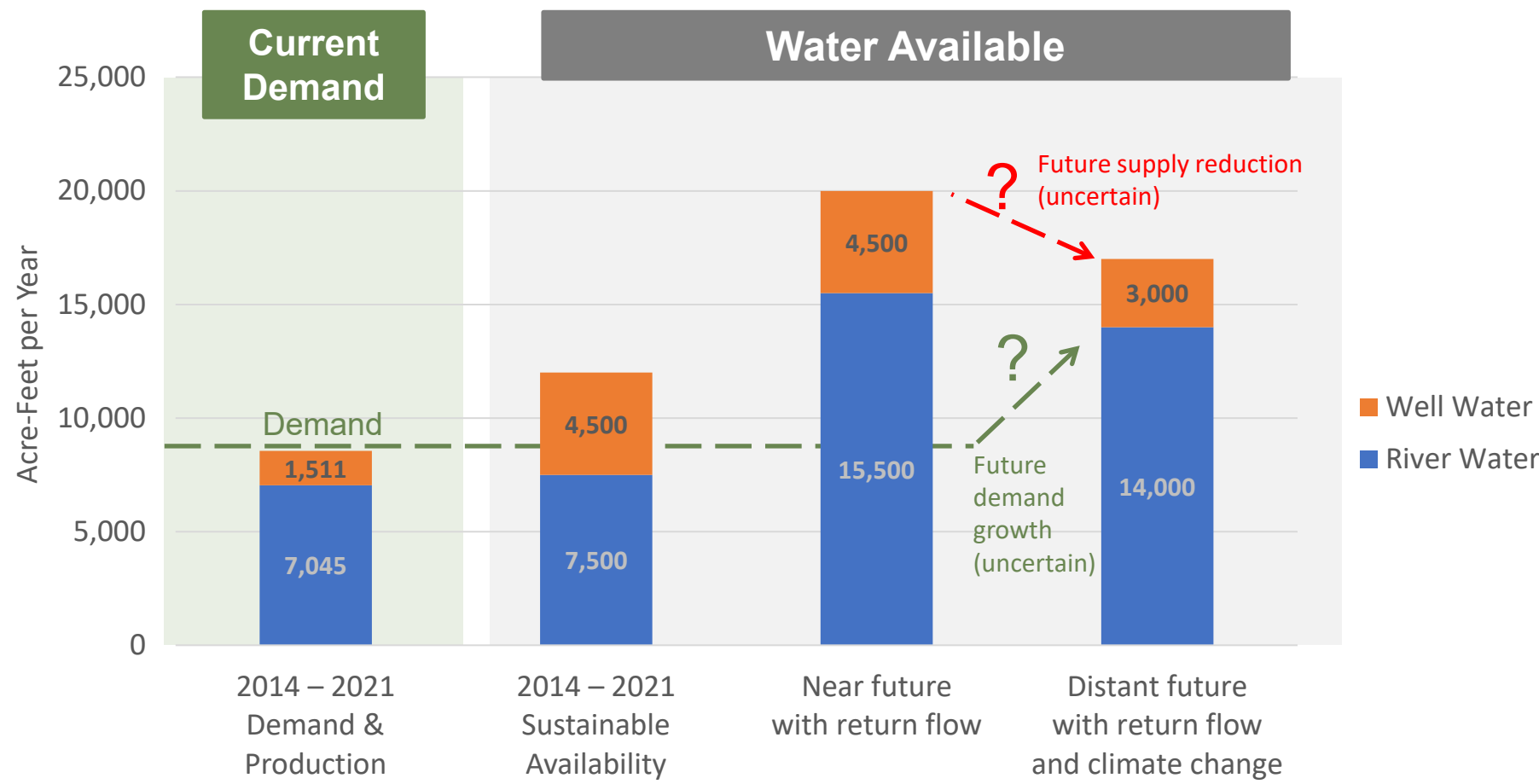


Do We Have Enough Water to Support New Housing

September 14, 2023



The short answer is... we do



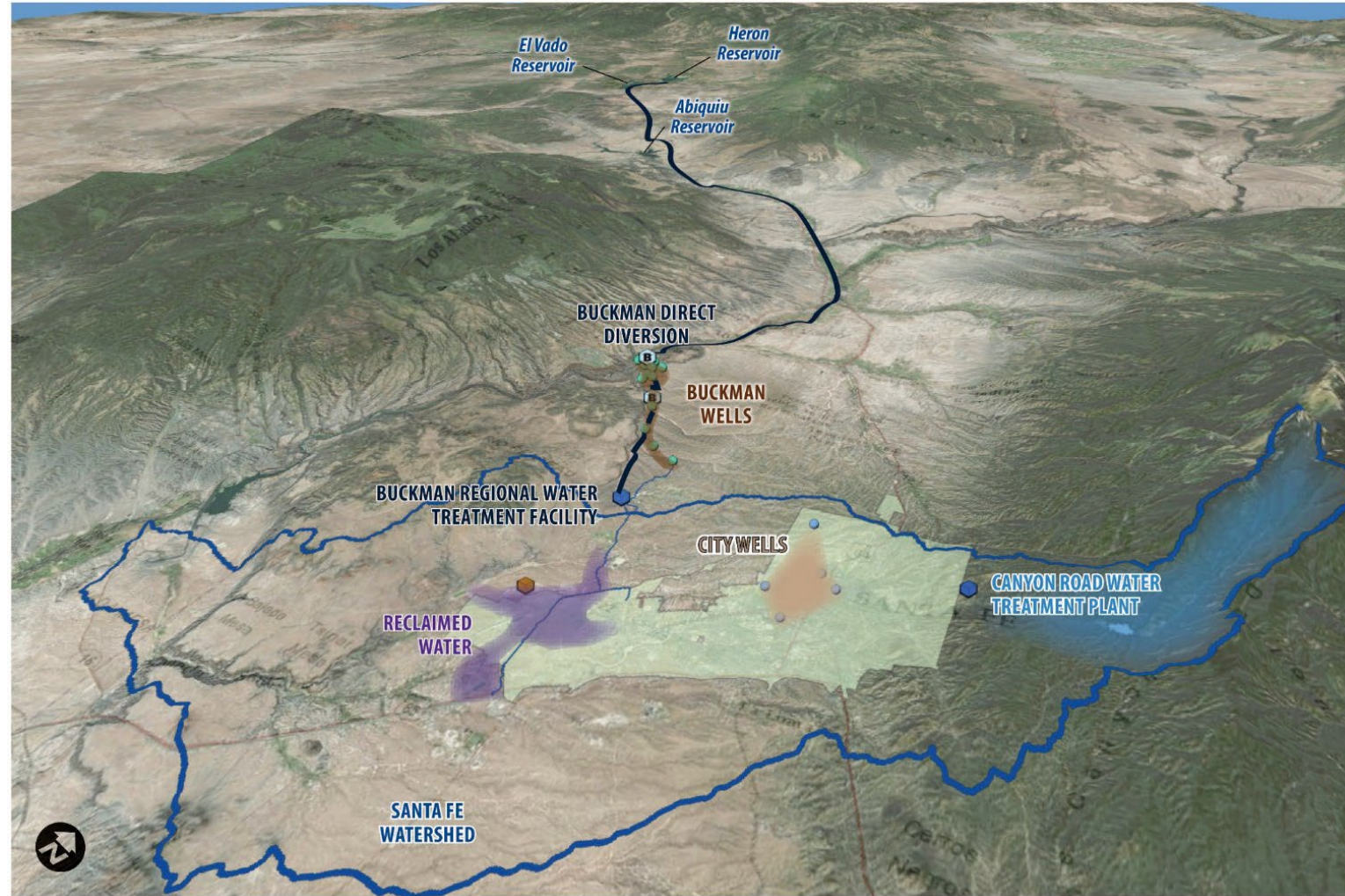
Let's step back a little bit to understand why

The System

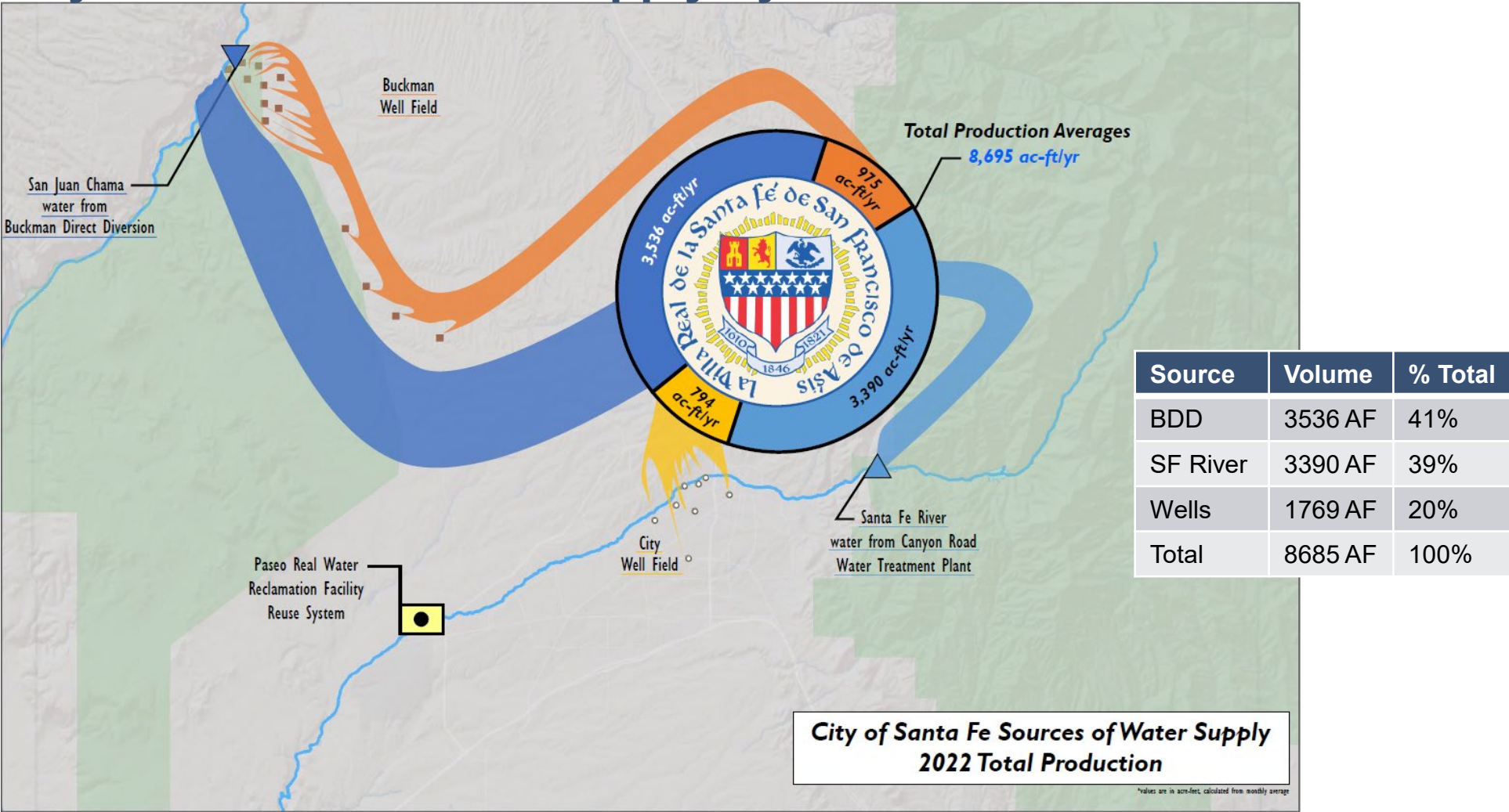
4 Drinking Supplies

- Santa Fe River (CRWTP)
- City Wells
- Buckman Wells
- Rio Grande (BDD)

Reclaimed Water

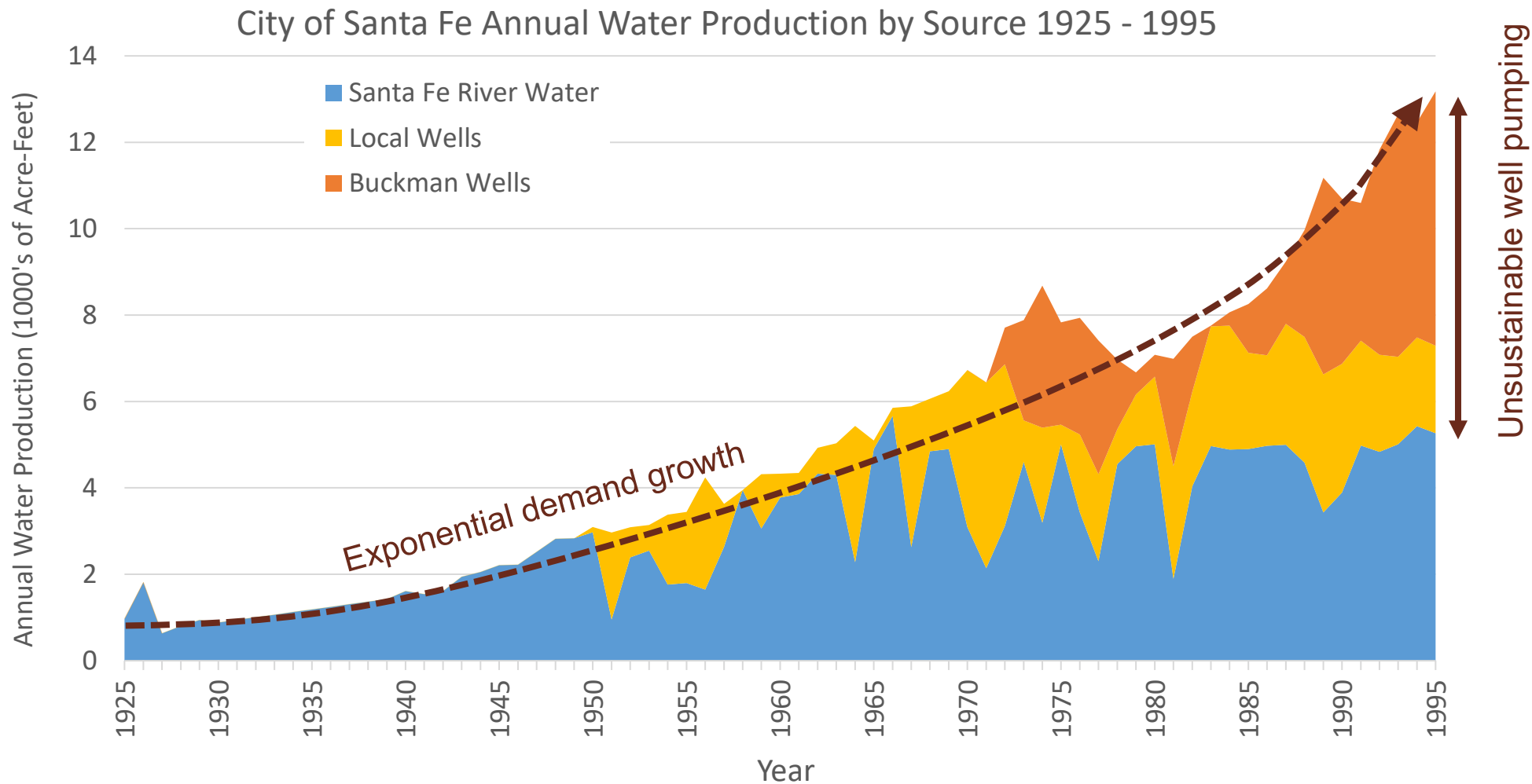


City of Santa Fe Water Supply by Source 2022



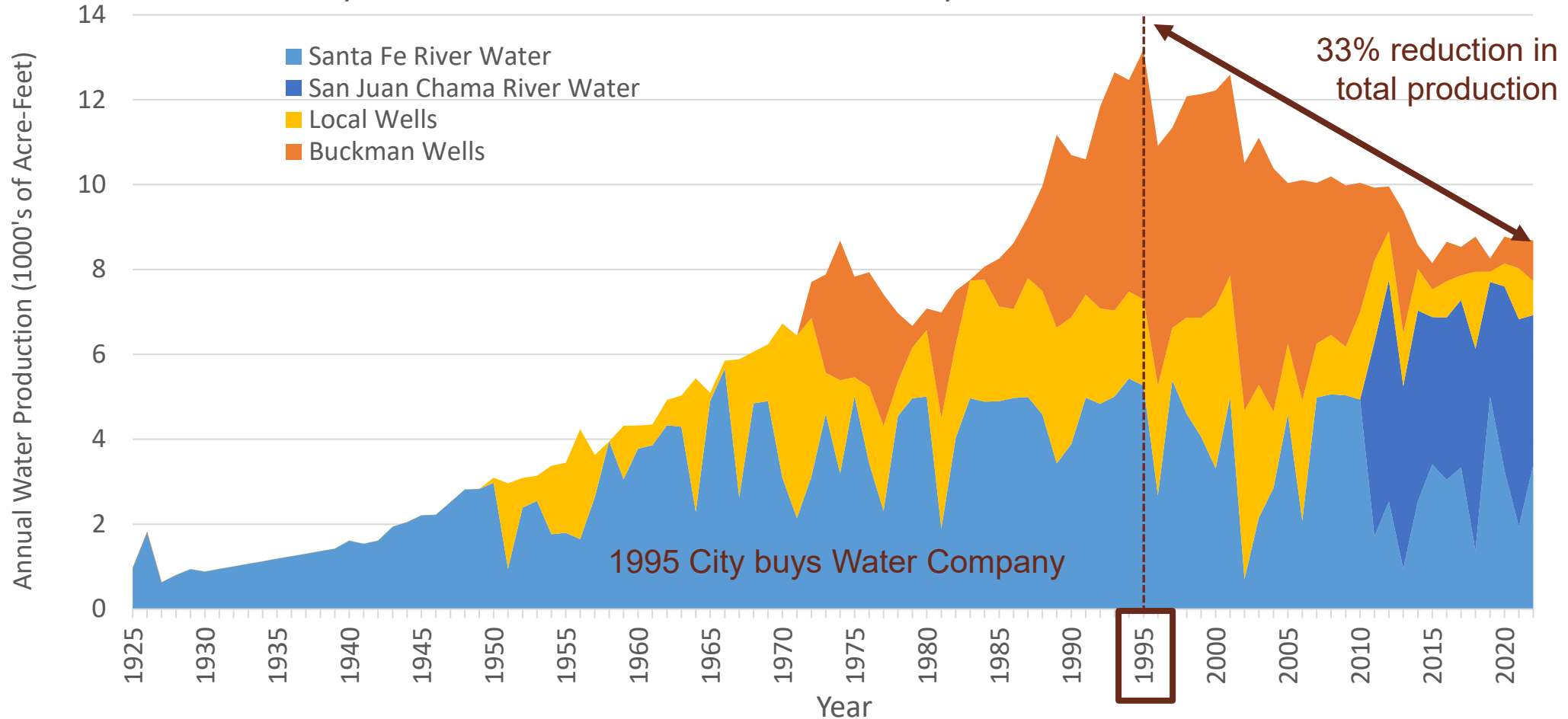
1880 – 1995

Exponential demand growth

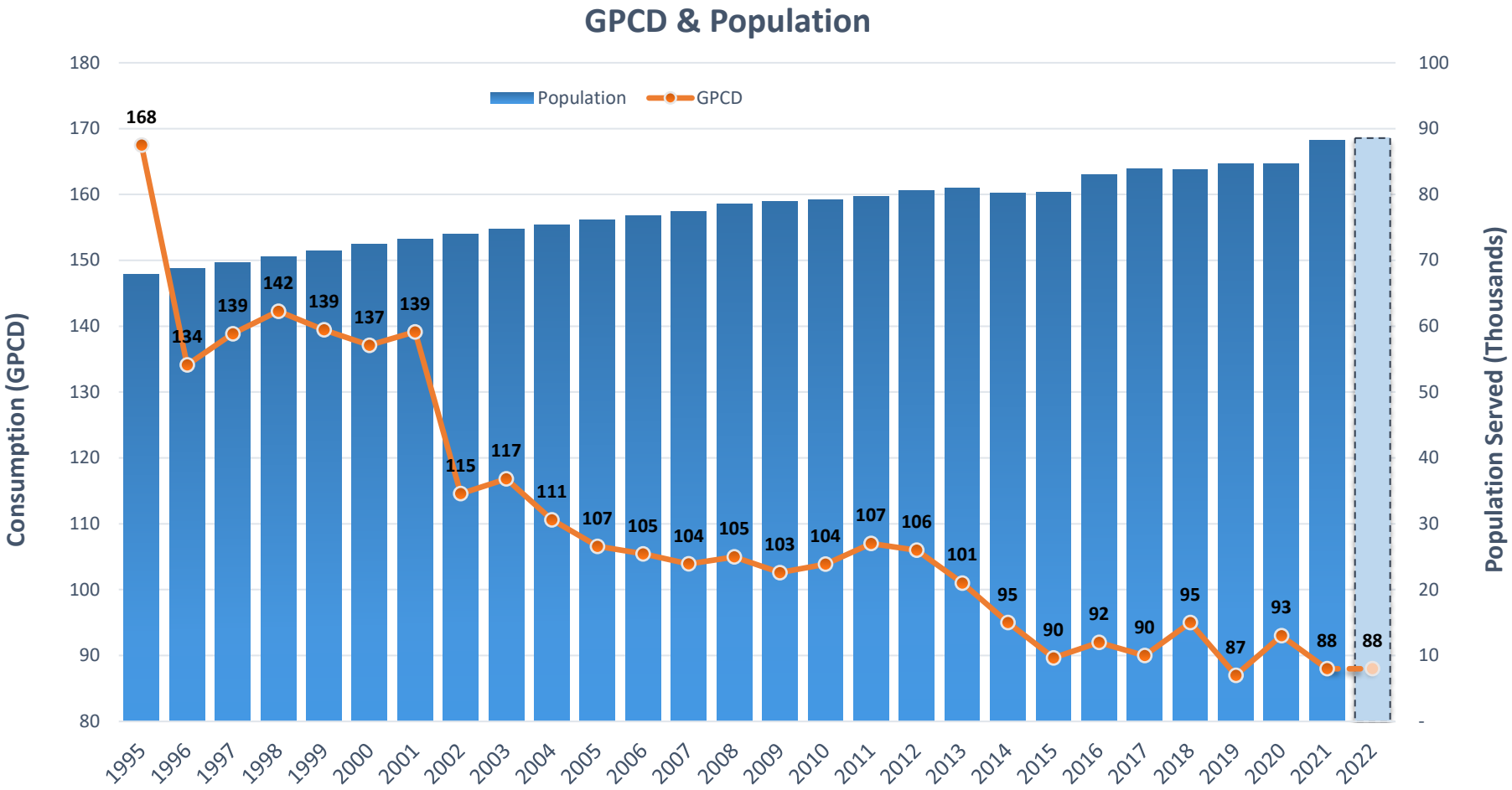


1996 – Present Dramatic Conservation Success

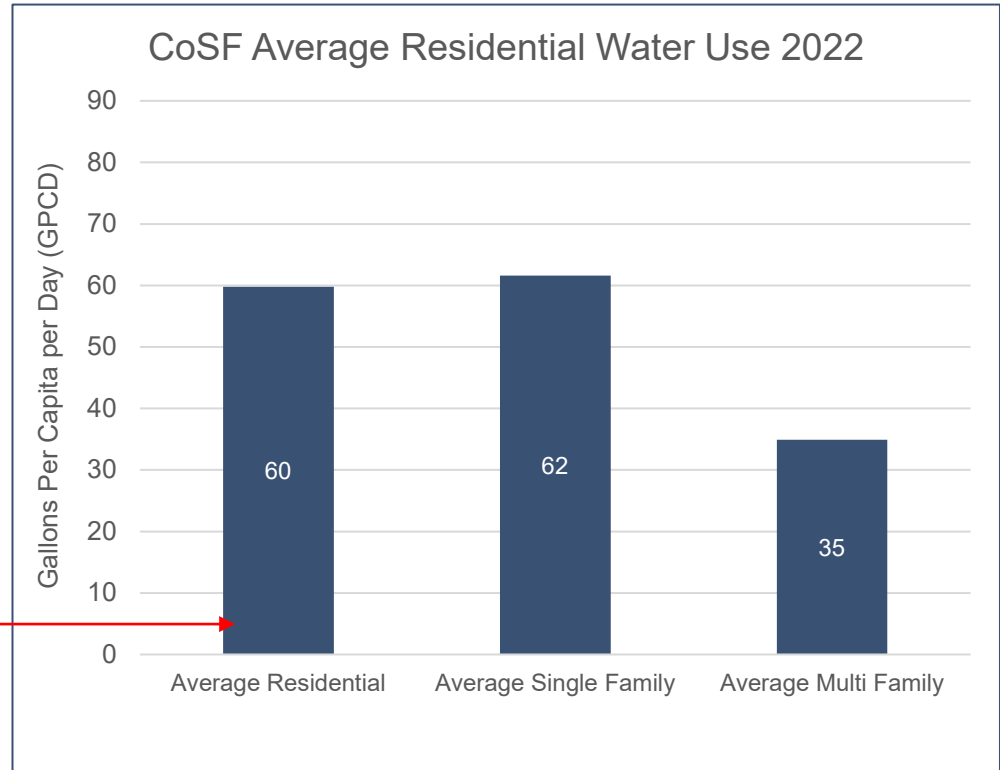
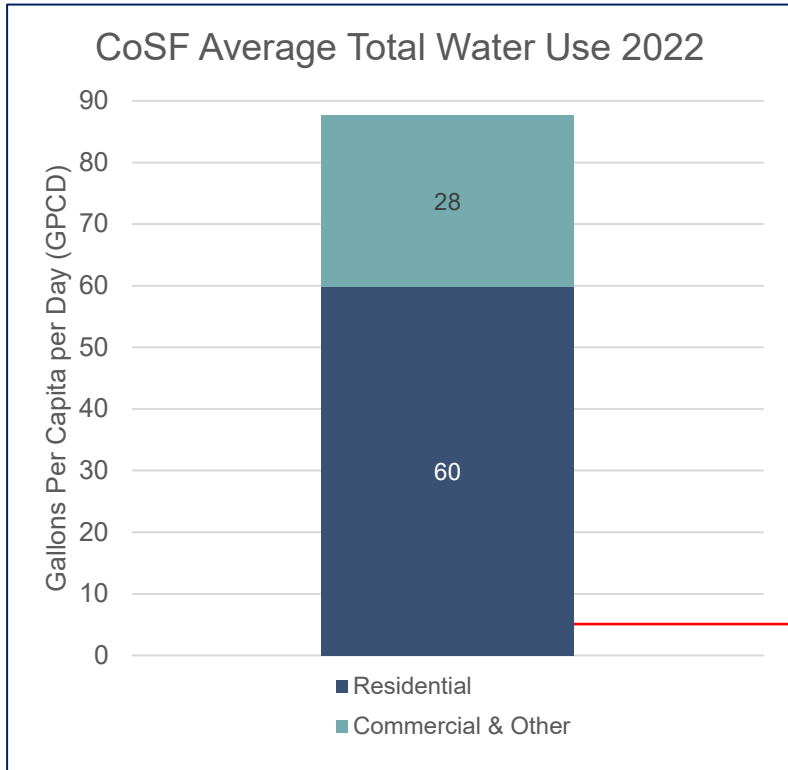
City of Santa Fe Annual Water Production by Source 1925 - 2022



Water Conservation



Water Conservation: Residential & Commercial GPCD

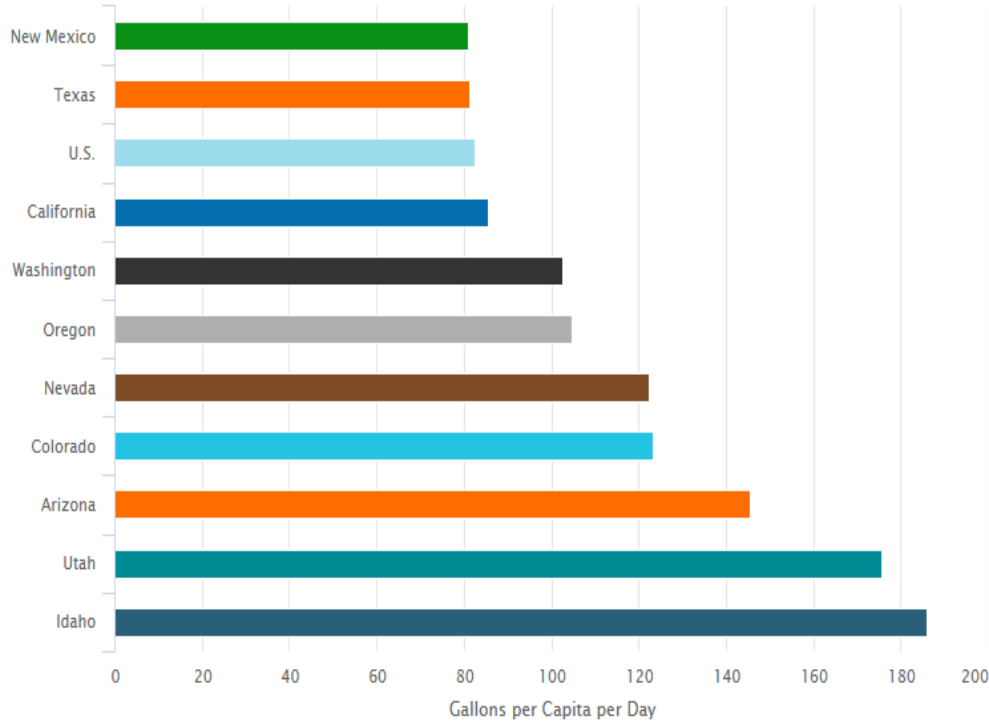


- About 70% of use is residential

- Most residential use is single family
- Multi family use is very low

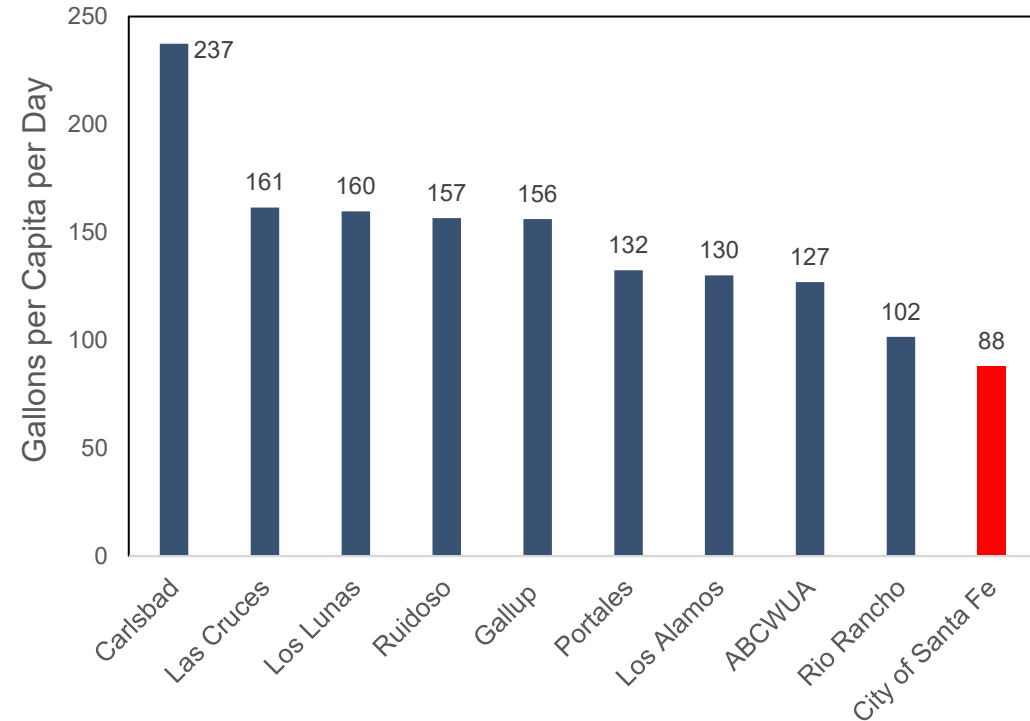
Water Conservation: Residential GPCD in western US and within NM

Residential Water Use (2015)

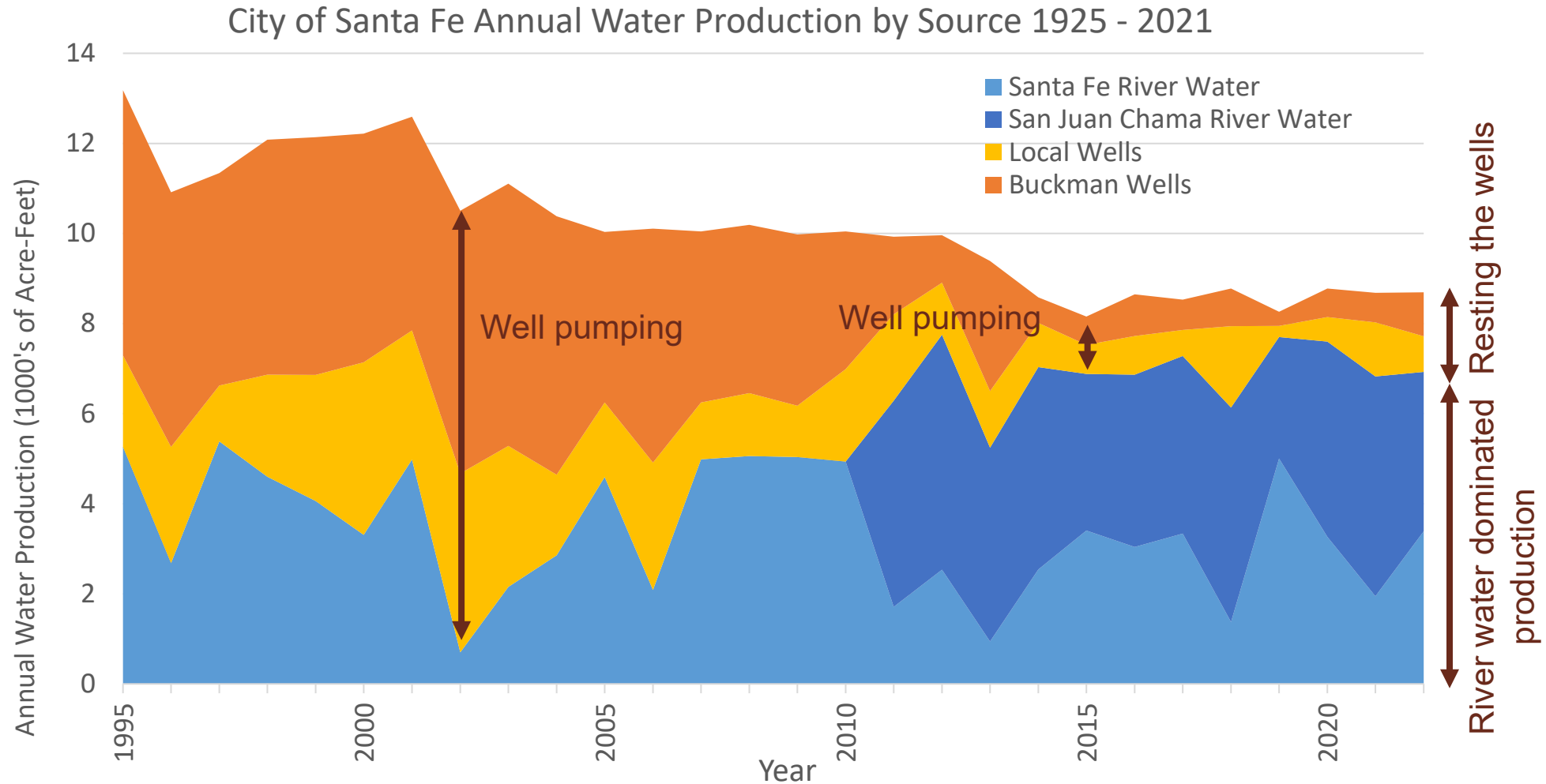


2022* Water Use in New Mexico Cities

*Most recent available data 2020 - 2022
for water systems serving at least 10,000 people



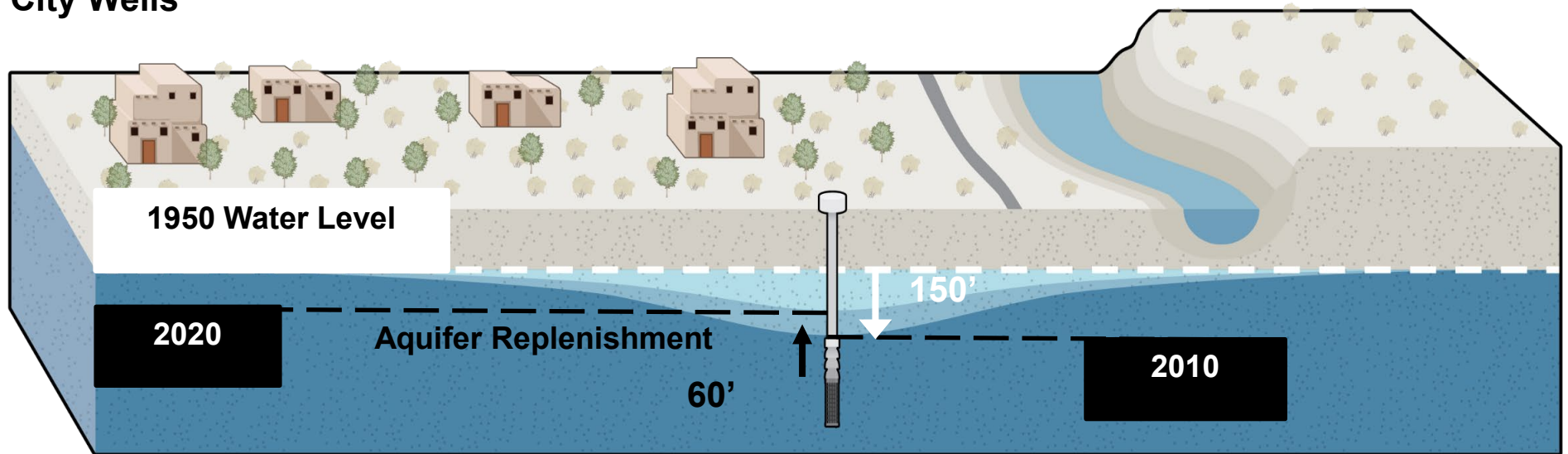
1996 – Present Transition to Surface Water Dominated Production



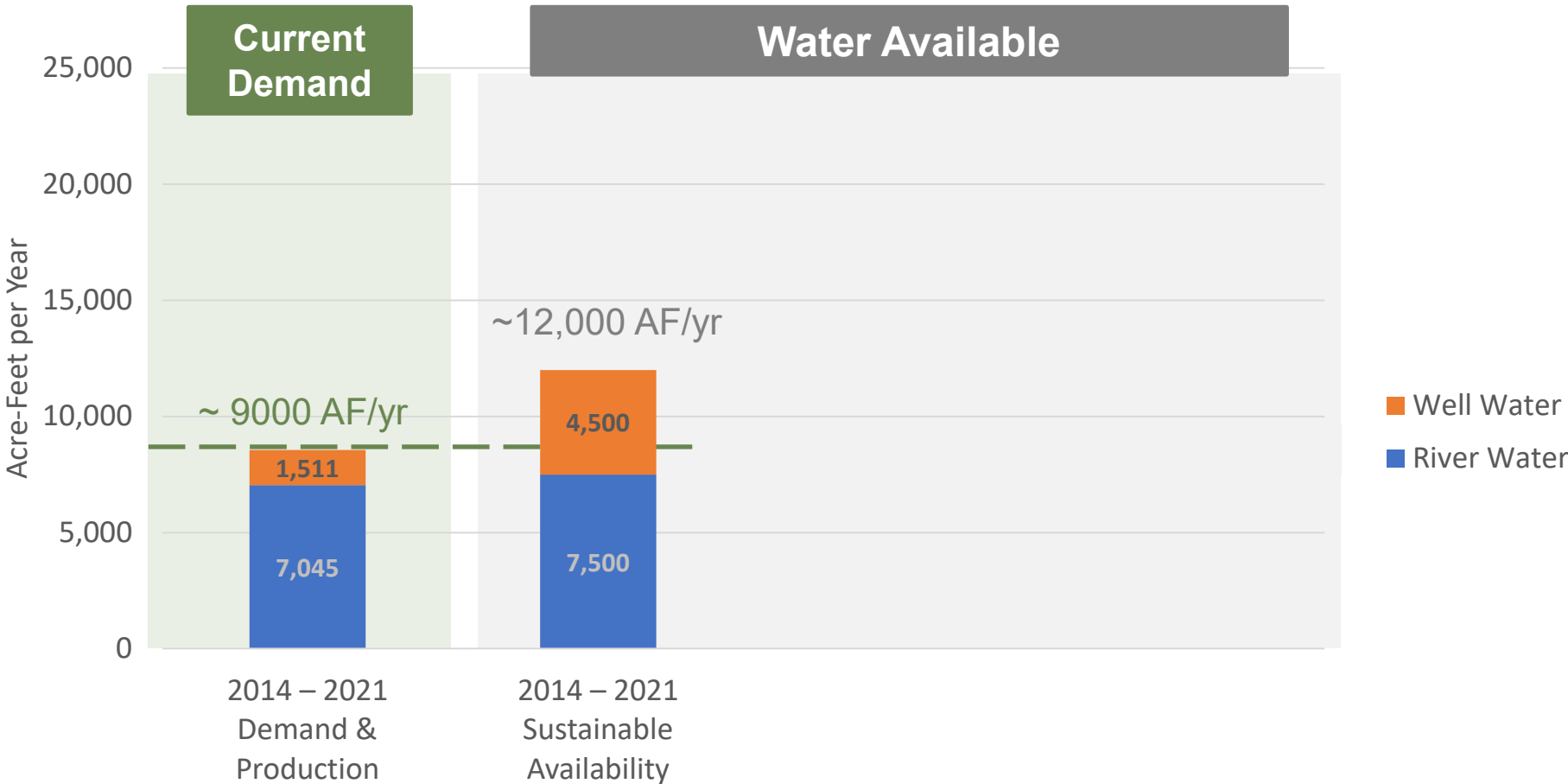
Groundwater Recovery (our “savings account”)

- Since 2010, our wells have been recovering from decades of overuse
- We like to keep our wells in reserve as a “drought proof” backup

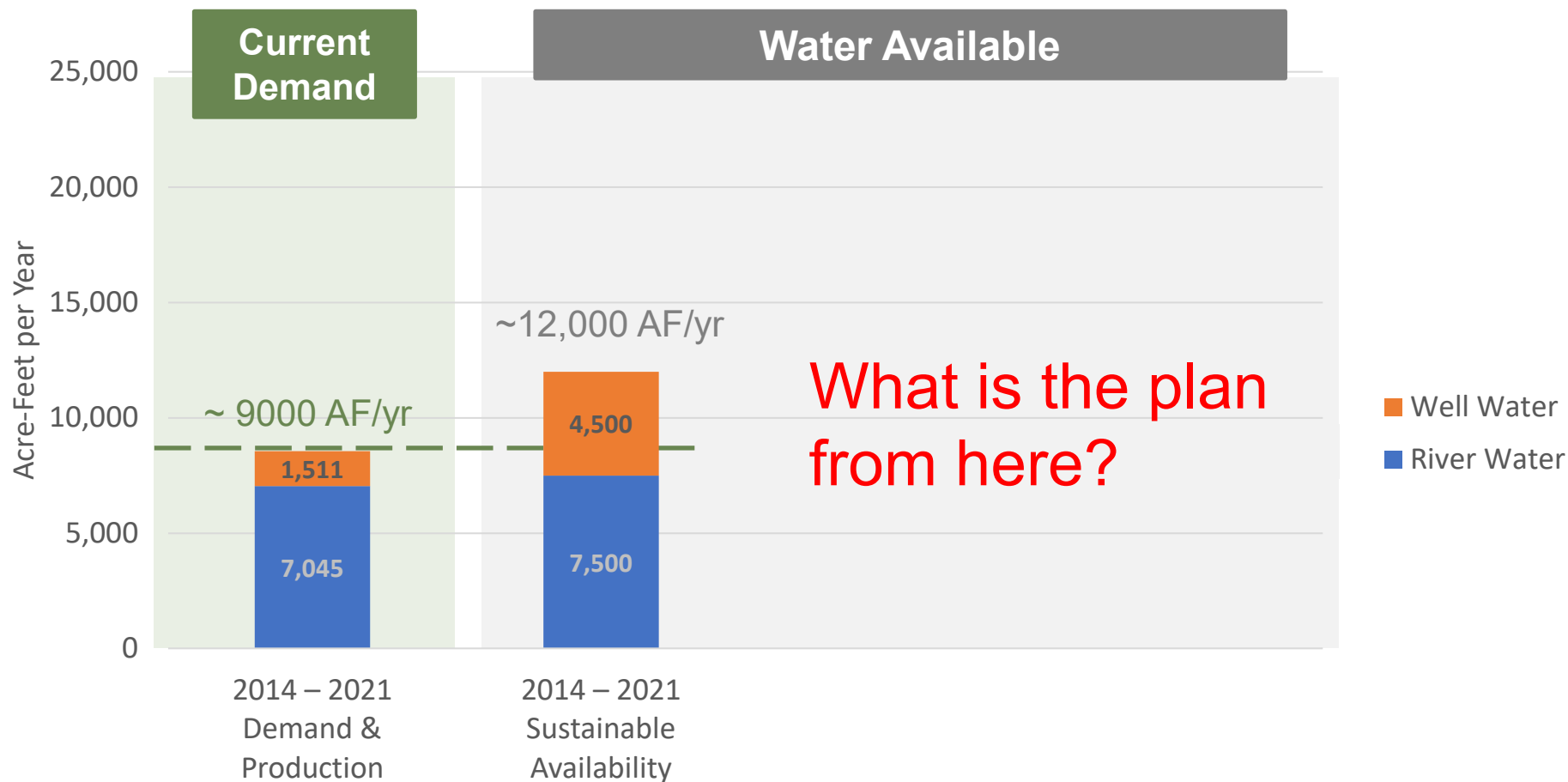
City Wells



City of SF Water Current (average of past 8 years) Demand and Supply



City of SF Water Current (average of past 8 years) Demand and Supply



Current Conservation – Green Building Code WERS Score

- CoSF Green Building Code continues to raise the bar with aggressive water conservation requirements
 - A “Water Efficiency Rating Score” (WERS) is required and requires a 30% more water efficient building than the baseline home
 - WERS is scored from 0 to 100 with lower being better

Indoor Fixtures and Appliances *** PLEASE DO NOT USE "COPY AND PASTE" ANYWHERE IN THIS TABLE ***

	Fixture or Appliance	Industry Baseline GPF / GPM / GPC /	Prescriptive Path? N	Program Minimum Prescriptive Path Units GPF / GPM / GPC / etc.	Proposed Units GPF / GPM / GPC /	Applicable to Project? Y	Proposed or Actual Daily Use in Gallons	Gallons Saved Over Baseline	Percent Saved Per Fixture (Baseline vs. Proposed)	Installation or Testing Confirmed? N	Notes
A	Toilet (GPF)	1.60		1.28	0.80	Y	16.00	16.00	50.00%	N	
B	Showerhead (GPM)	2.50		2.00	2.00	Y	40.00	10.00	20.00%	N	
C	Lavatory (GPM)	2.20		1.50	1.00	Y	5.00	6.00	54.55%	N	
D	Kitchen Faucet (GPM)	2.20		2.20	1.50	Y	24.00	11.20	31.82%	N	
E	Dishwasher (GPC)	6.50		4.25	6.50	Y	6.50	0.00	0.00%	N	
F1	Washer Size in CF				0.00					N	
F2	Washer WF	9.50		9.50	9.50	Y	0.00	0.00	0.00%	N	
G	Water used to reach 100 degrees (GPU)	2.00		1.50	1.00		15.00	15.00	50.00%	N	

VALUES AND CREDITS FOR RAINWATER
OR GREYWATER REUSE WILL NOT
APPEAR UNTIL BOTH THE INDOOR TAB
AND THE CAPTURE & USAGE TAB ARE
COMPLETE

AVERAGE Rainwater reuse gal/day credit:	106.50	58.20	Total
AVERAGE Greywater reuse gal/day credit:	0.00		
AVERAGE Adjusted usage gal/day:	106.50		

**MINIMUM PERSCRPTIVE
INDOOR WERS**

82.0

Project INDOOR WERS SUBTOTAL

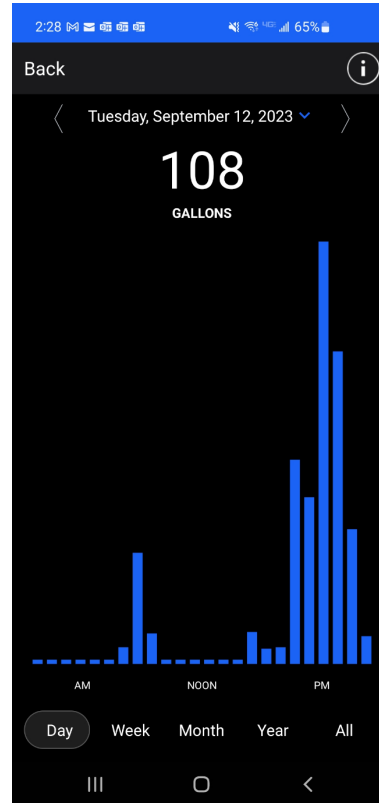
64.7

NOT FINAL

The WERS (Water Efficiency Rating Score) is based on 0 to 100 with 0 being the best performing home.

Current Conservation – Eye on Water

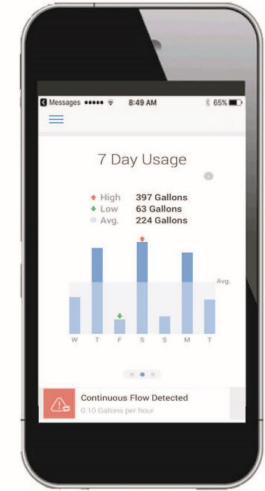
- Automated meter reading and the “Eye On Water” app allow water users to see their use (and set alarms to immediately detect leaks) in real time



EyeOnWater®

Mobile App

SIGN UP TODAY!

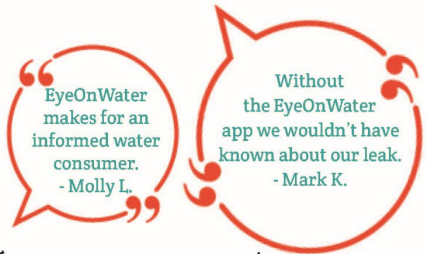


santafenm.eyeonwater.com

Take control of water use

Avoid Tier 2 Rates

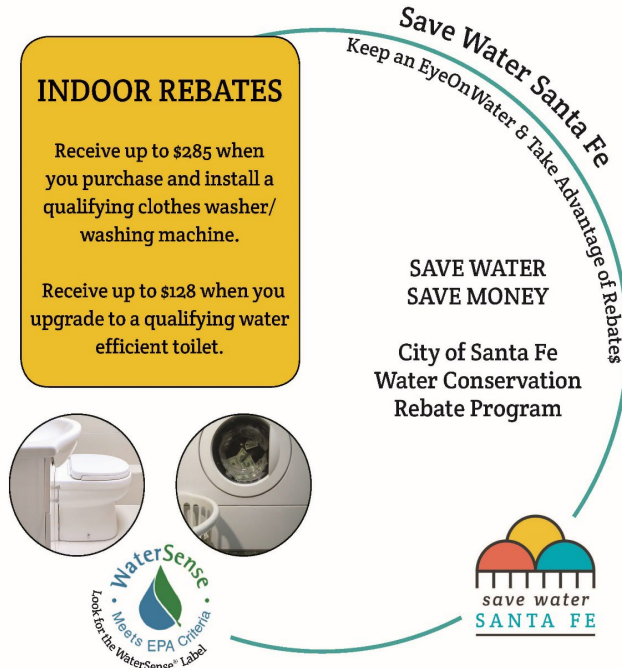
Receive alerts if you have a leak



See what real Santa Fe Utility customers are saying...

Residential and Commercial Sector Conservation

- Conservation in the residential indoor sector have been a focus of rebate programs



- Potential conservation in the commercial sector is an emerging target

— BECOME —

Certified Waterwise

by the City of Santa Fe

Without water, our businesses could not exist. Join the growing number of local businesses dedicated to reducing their water footprint in Santa Fe. Partner with us to become **Certified Waterwise** today!



Support waterwise businesses in the City Different

If you own or manage a business in Santa Fe and are interested in becoming a project partner please contact Glenn Schiffbauer at glennschiffbauer@gmail.com. This program is sponsored by the City of Santa Fe Water Conservation Office in partnership with the Santa Fe Green Chamber of Commerce.

Free commercial water audit valued between \$500-\$1,000 and comprehensive report of findings.

Free water saving equipment onsite, such as aerators and pre-rinse spray valves.

Participating businesses will be highlighted as water savers on our website, social media channels, etc.

PR opportunities for advertisement are all extra incentives.

Training for EyeOnWater mobile app to track and monitor water use. This app also alerts you to leaks on a real-time basis.

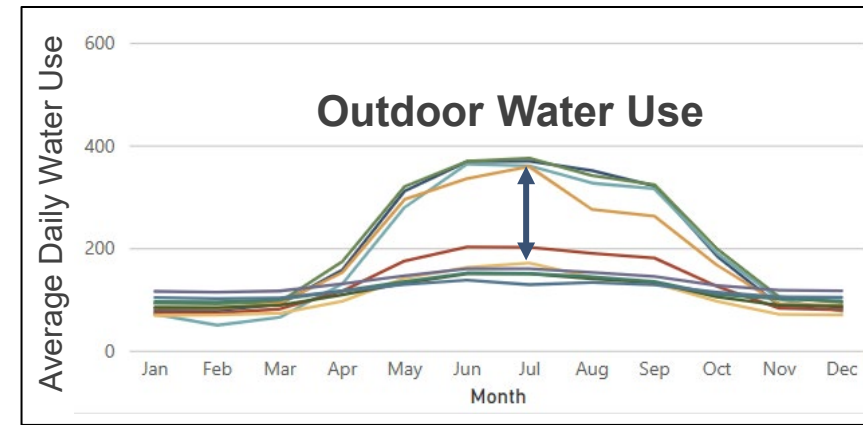
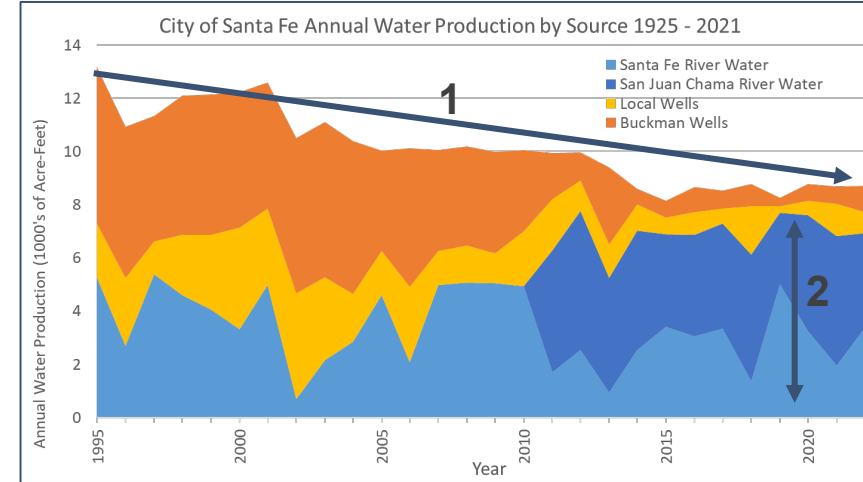
savewatersantafe.com | sfsustainablebusiness.com

- As we shift to reuse, reduction of potable water use outdoors is likely to become the key conservation target

Water Reuse & Outdoor Conservation

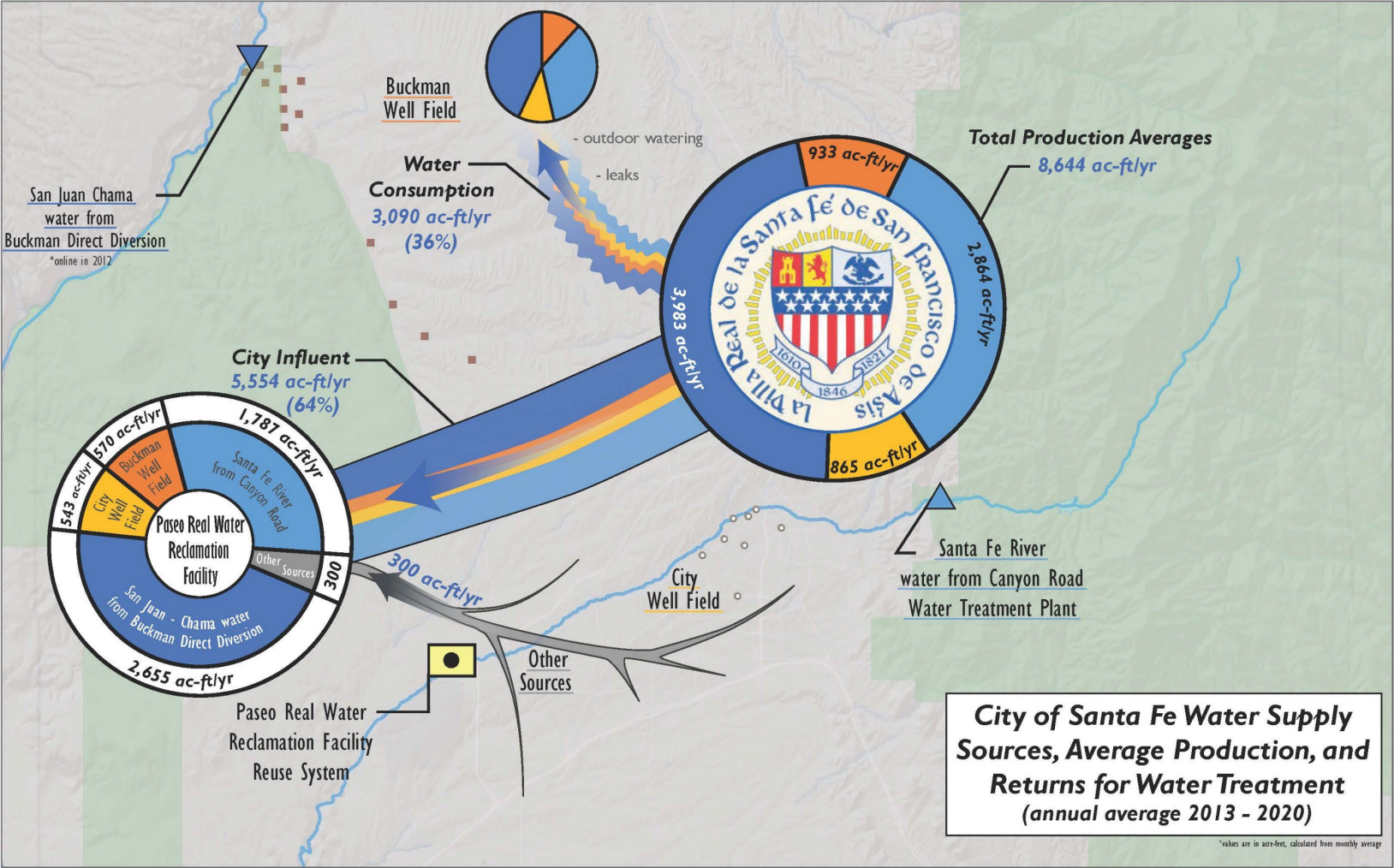
Paradigm Shifts in Water Management:

1. **Conservation:** 1995 forward
2. **Surface water dominated production:** (Before 1950 and) 2011 forward
3. **Water reuse:** 2027* forward
 - a) Effluent to drinking water system
 - San Juan Chama Return Flow Project
 - b) Importance of outdoor conservation grows
 - Water used indoors can be used again
 - Key efficiency metric: % potable water used indoors

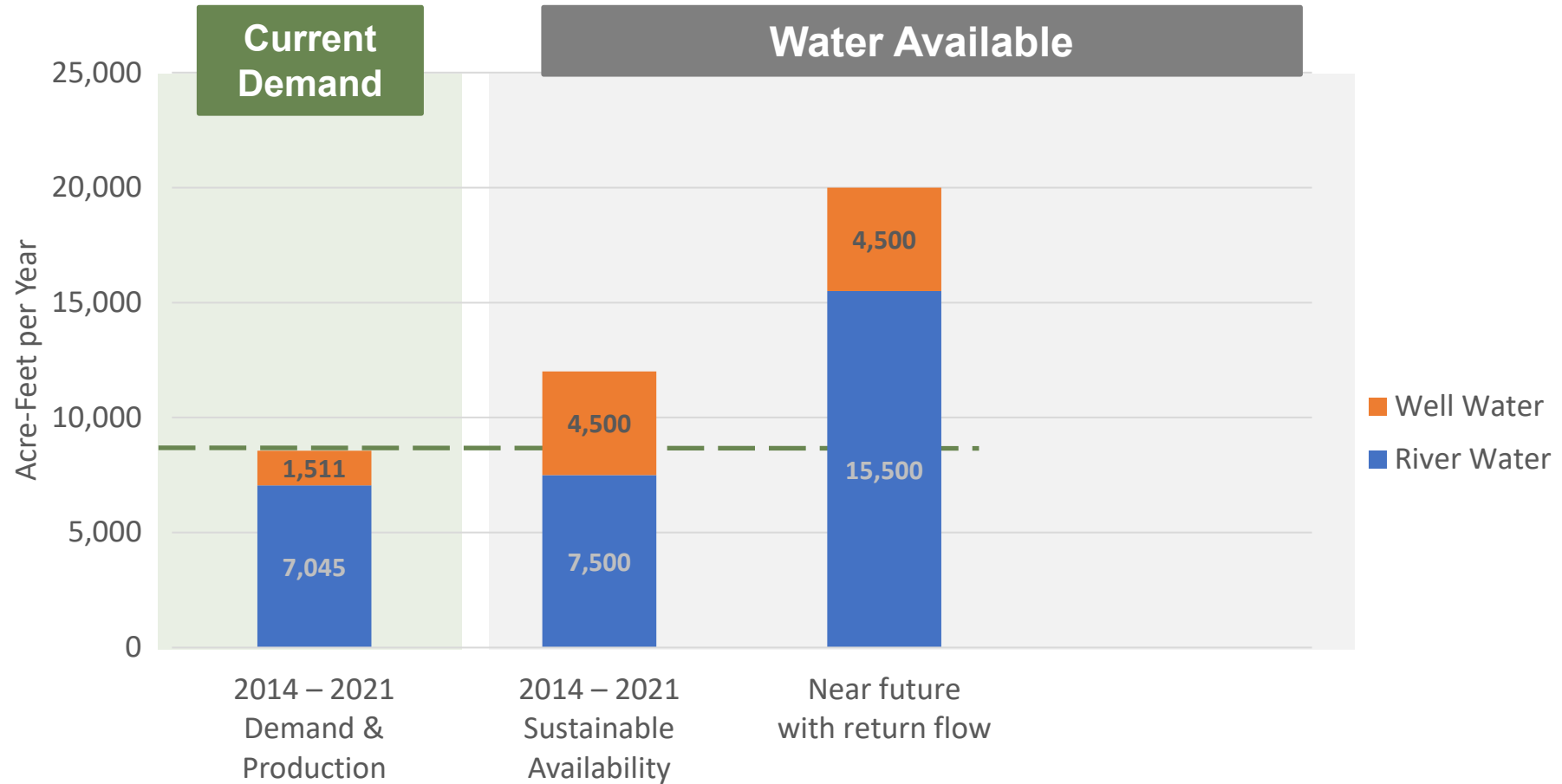


* Non-potable re-use in SF largely serves new demands, not formerly potable demands. SJC Return Flow Project estimated start year of 2027

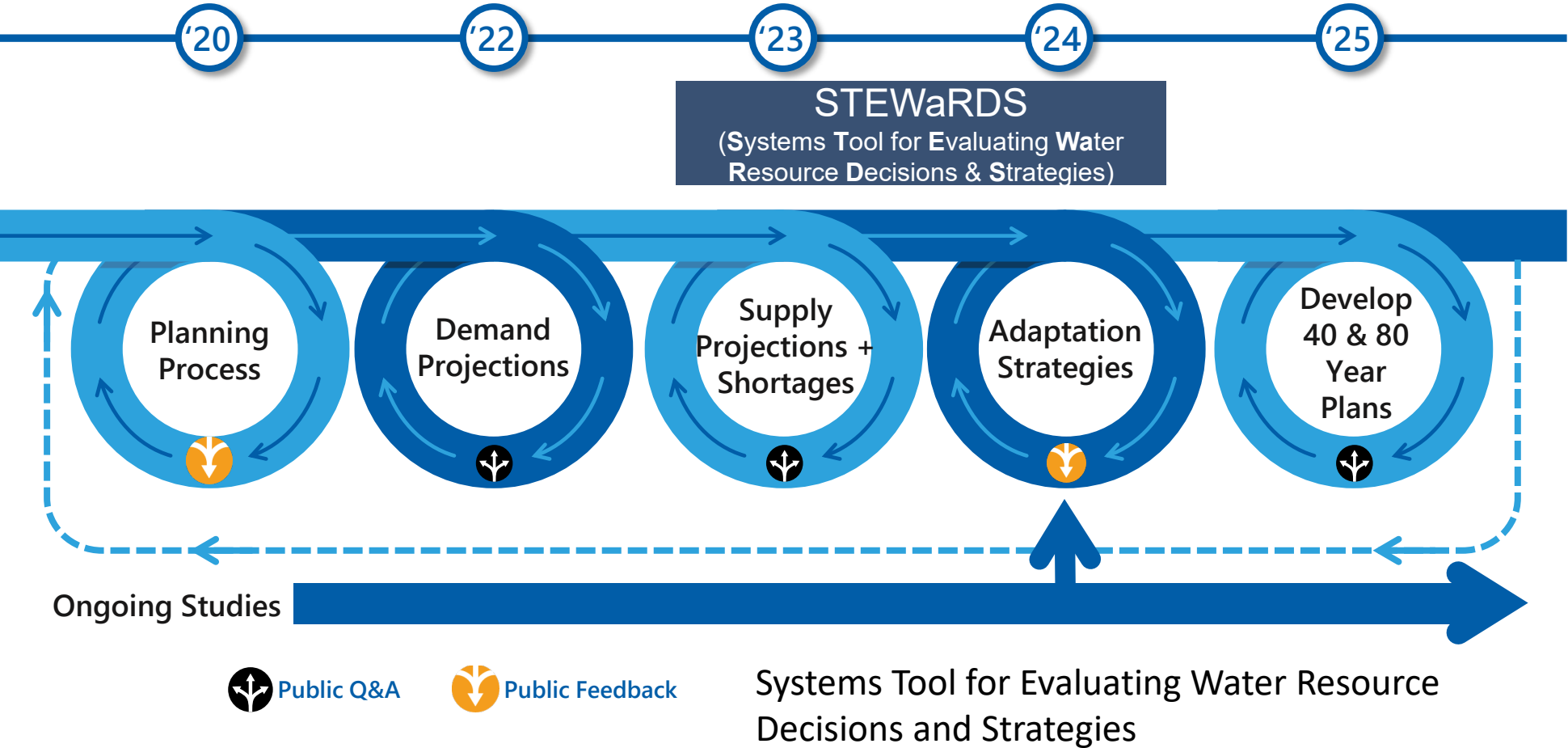
Reuse of effluent:



Near term plan: San Juan Chama Return Flow Project



Long Term Planning: “Water 2100”



Our sustainable water supply portfolio: past, present, future

