



What's Up With Water? 2025 BDD Edition

June 2025

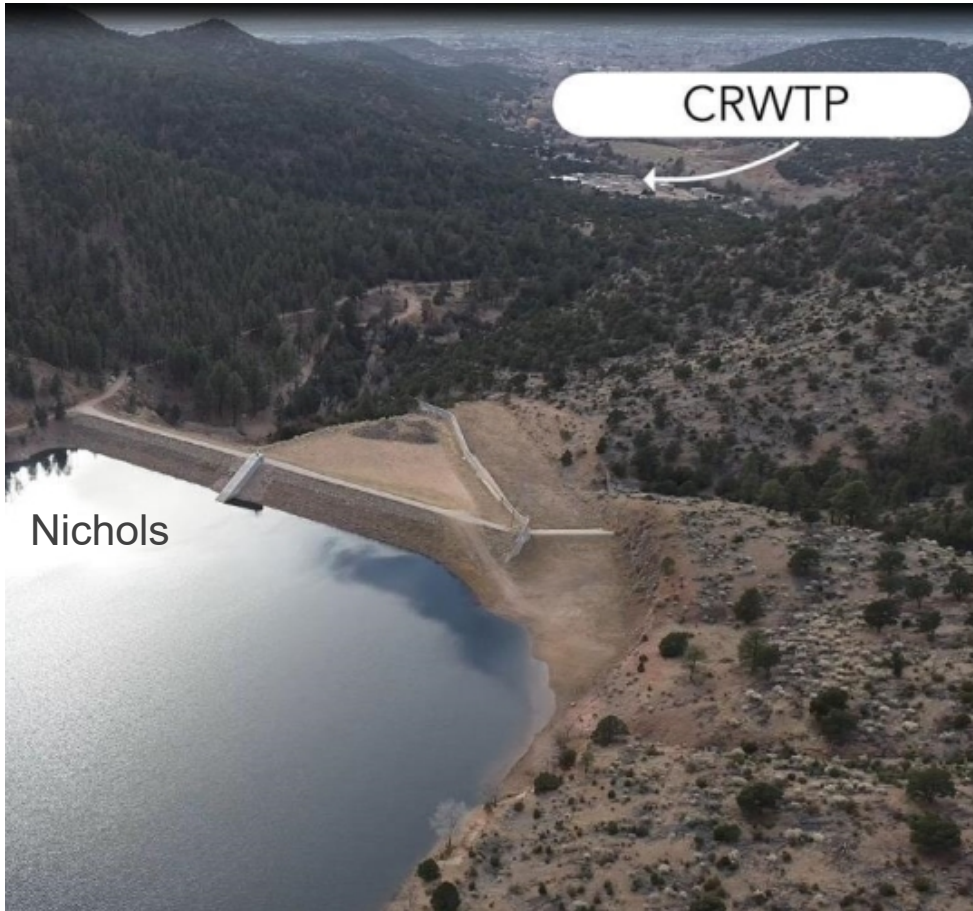
The System

- 4 Potable Sources
 - Santa Fe River
 - City Wells
 - Buckman Wells
 - BDD
- BDD jointly owned
 - City
 - County
 - Las Campanas
- City diverts SJC water at BDD
- Non-potable resource
- Santa Fe River watershed



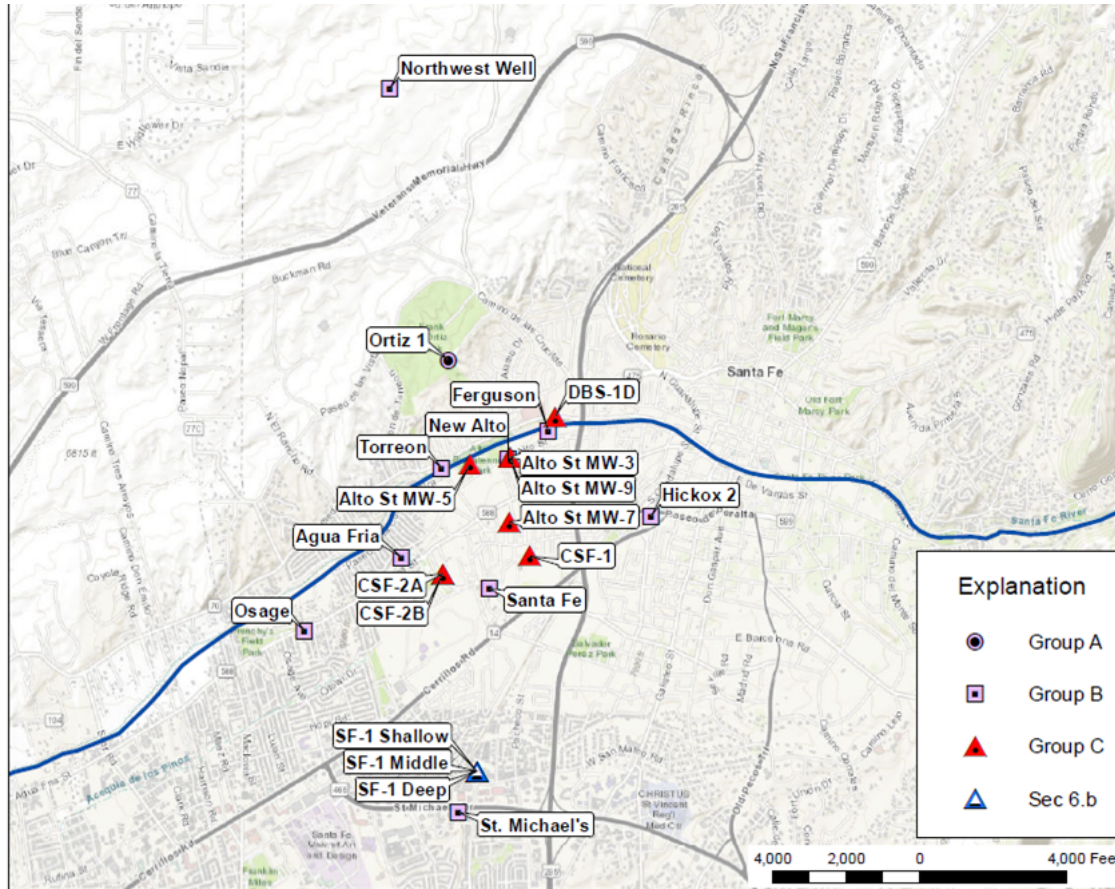
Santa Fe River

Stored in McClure and Nichols and treated at Canyon Road Water Treatment Plant



City Wells

Currently 7 active production wells

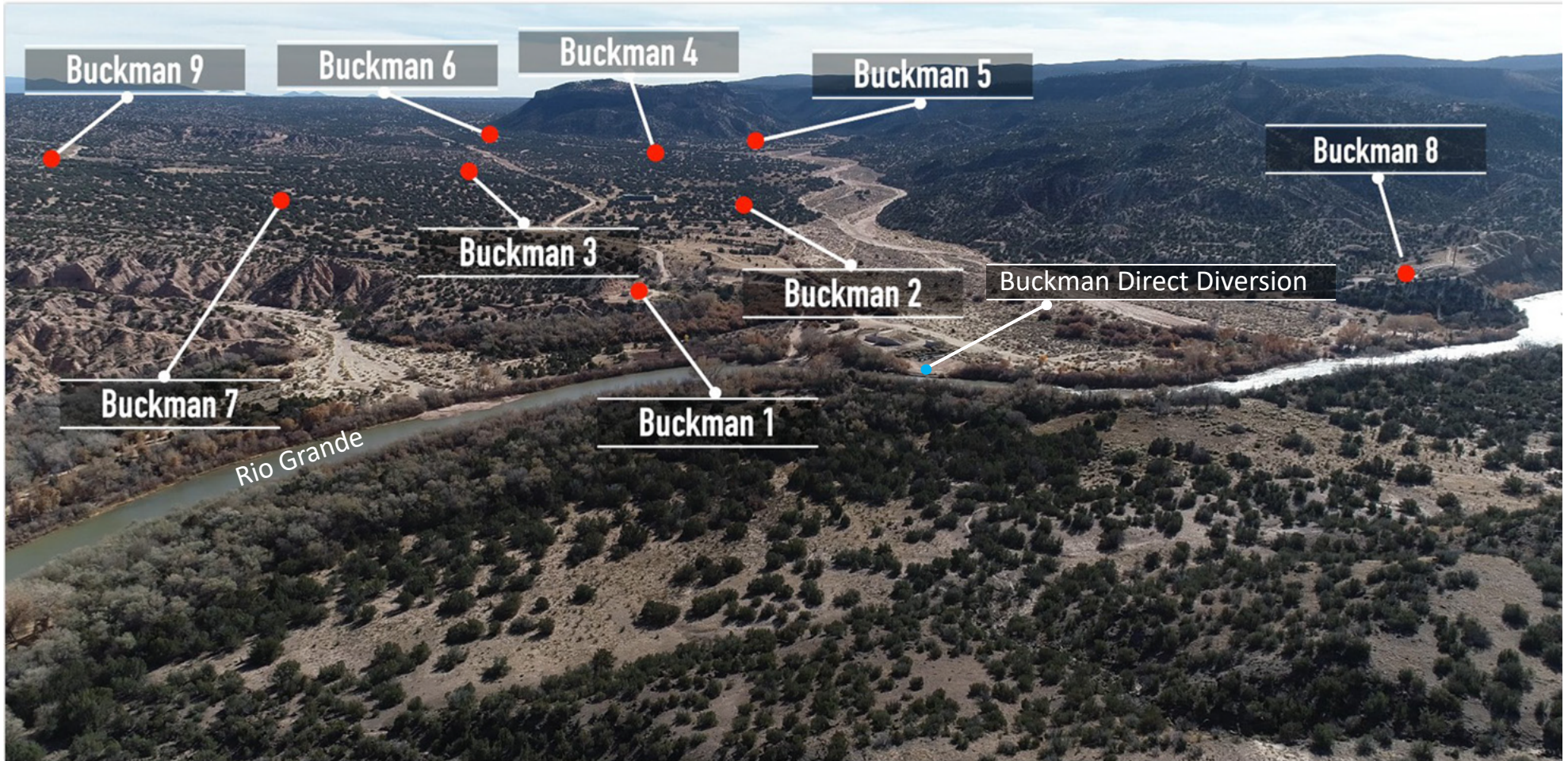


- First wells drilled in 1950s
- Wells are mostly along Santa Fe River
- Northwest Well in La Tierra Trails and Agua Fria north of the Indian School are the workhorses



Buckman Wells 1-9

As seen from the Rio Grande looking towards Santa Fe



Buckman Direct Diversion

Online in 2011

- City, County, and Las Campanas own diversion

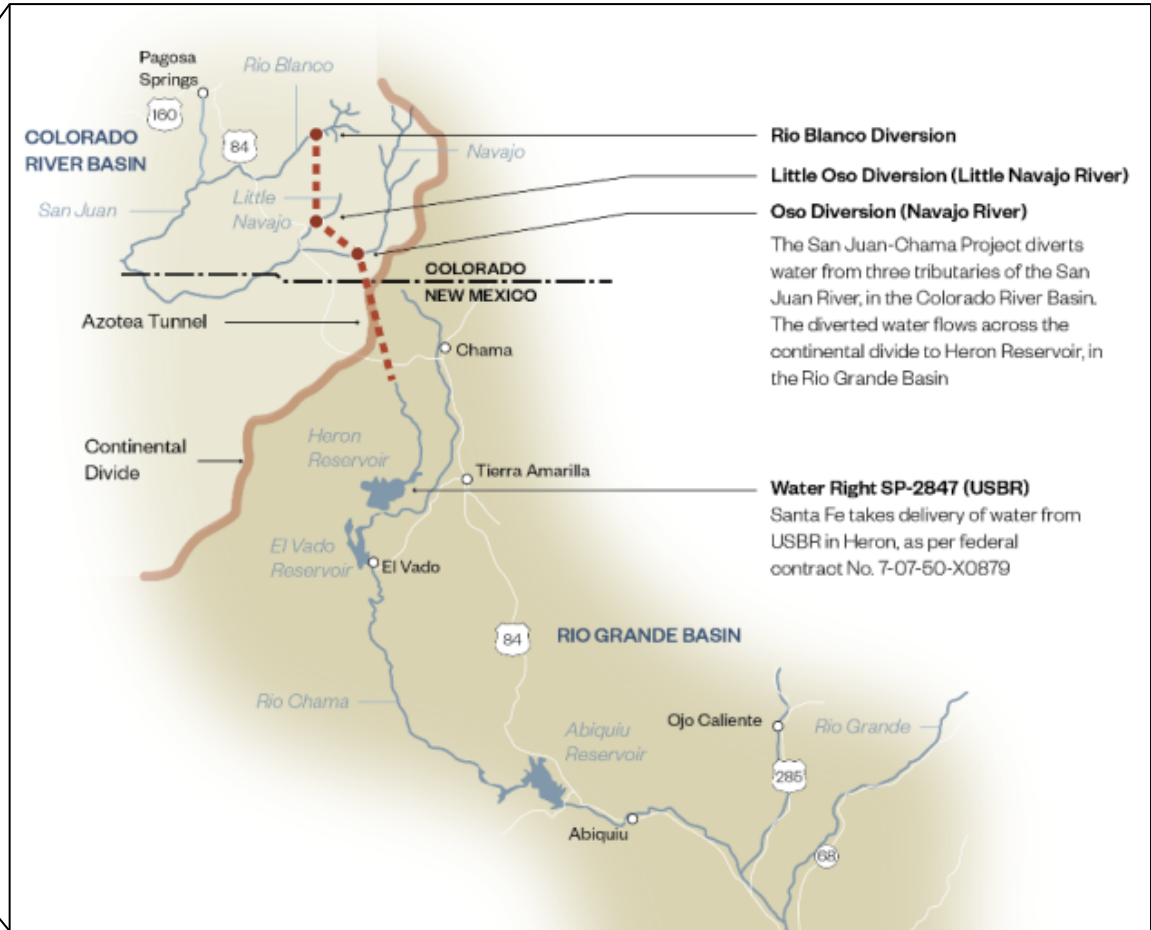


- City & County own treatment plant

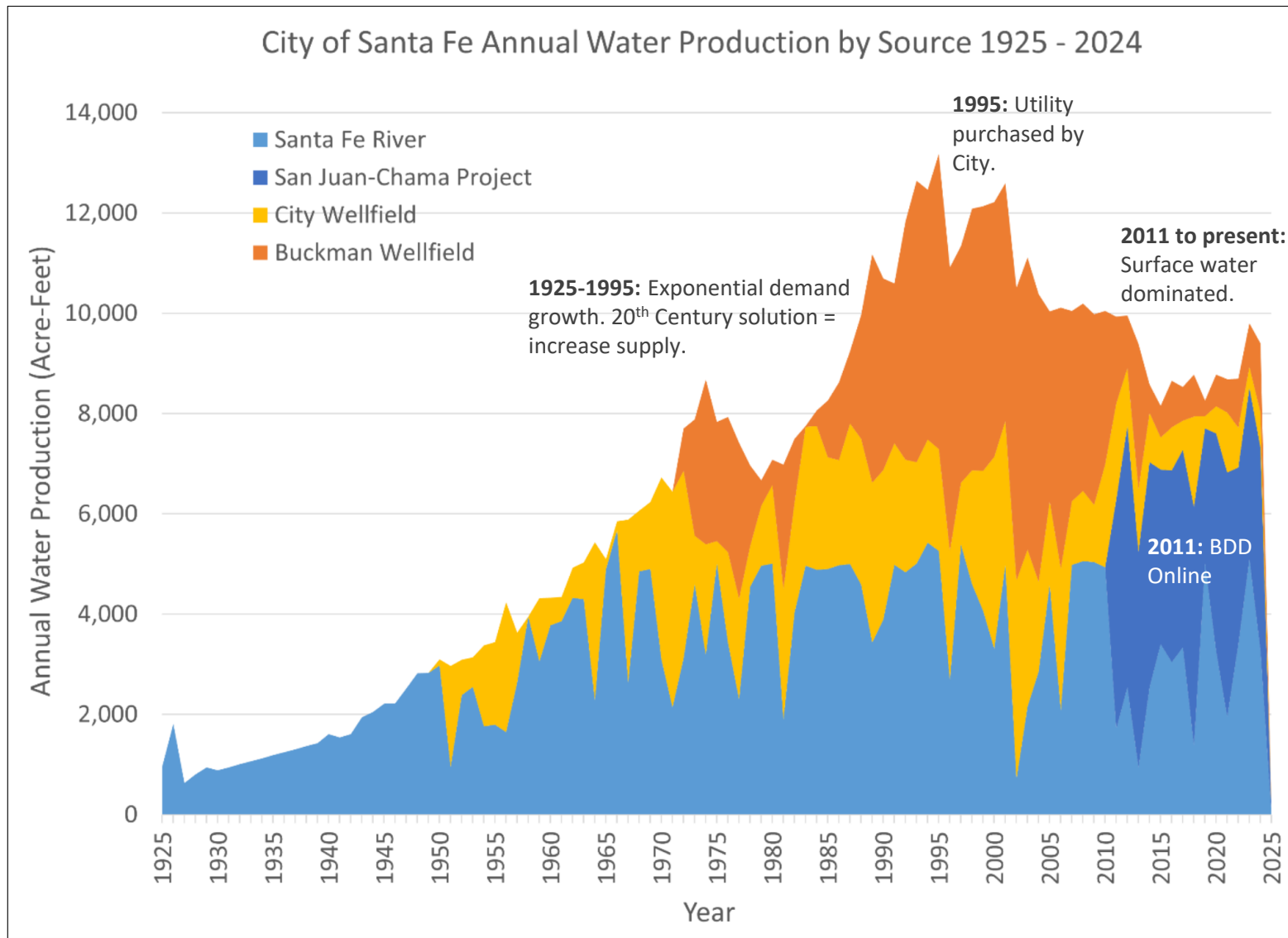


San Juan Chama Project

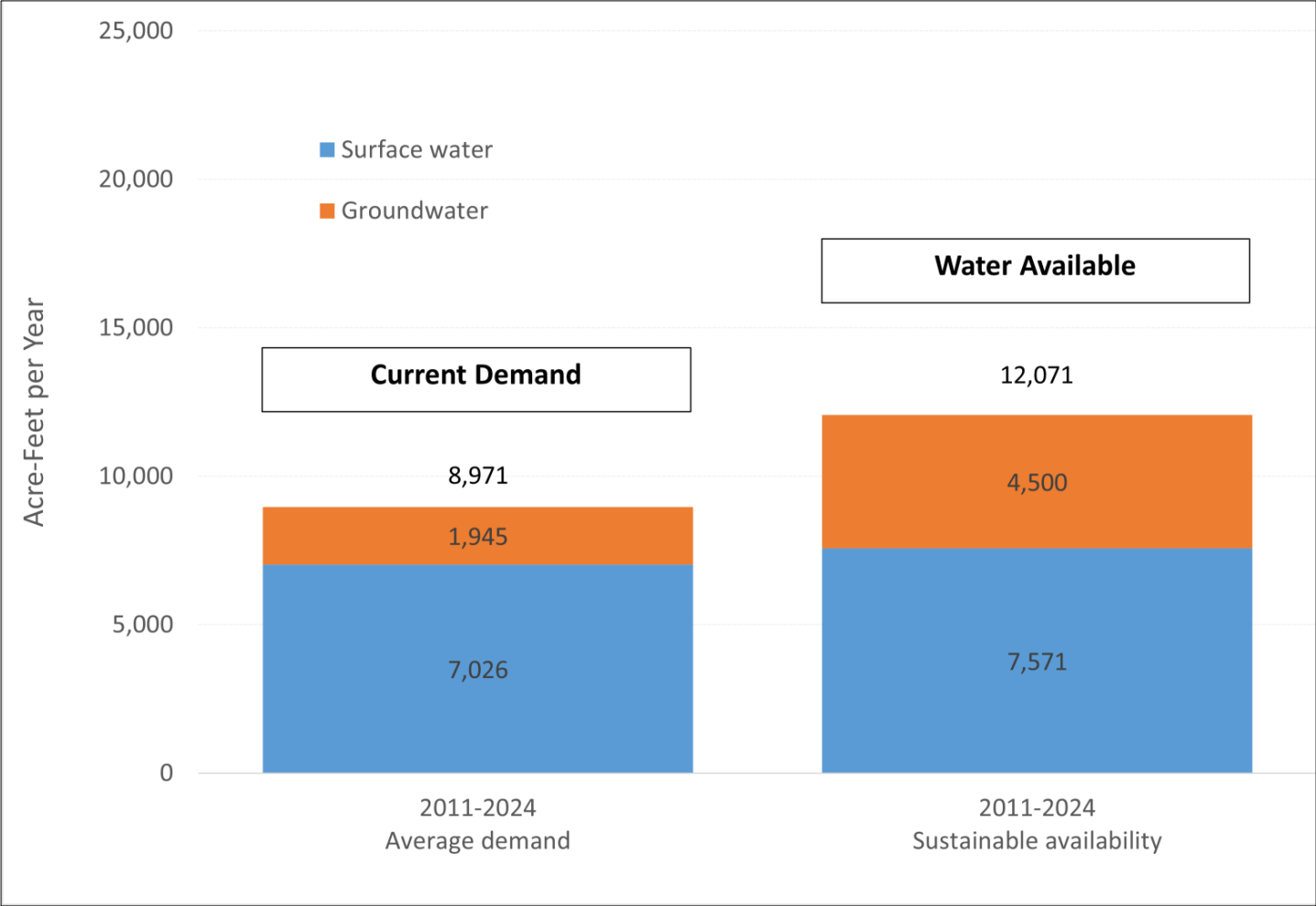
City diverts Colorado River (San Juan – Chama Project) water directly from Rio Grande



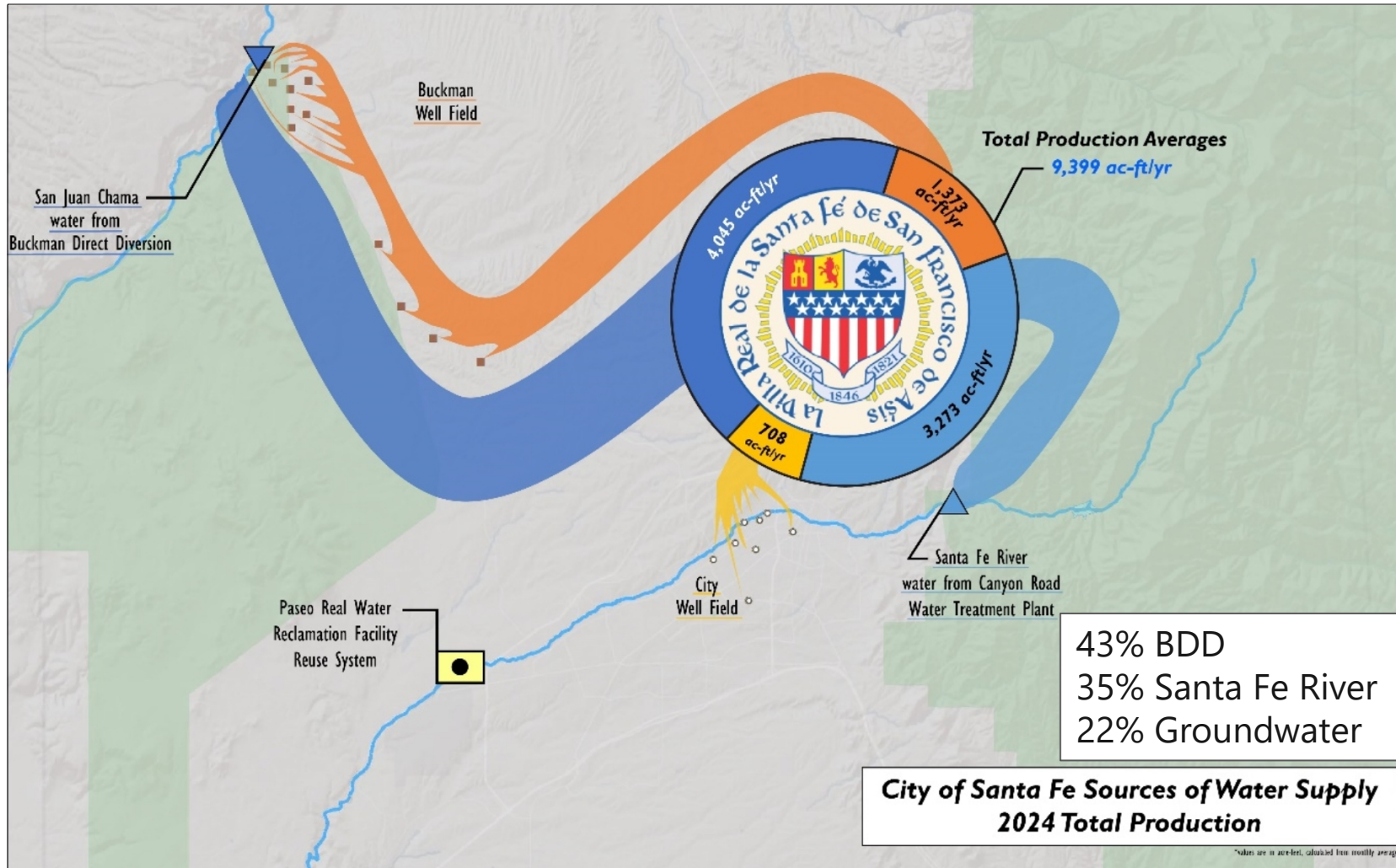
CoSF Water Past: A Picture Is Worth...



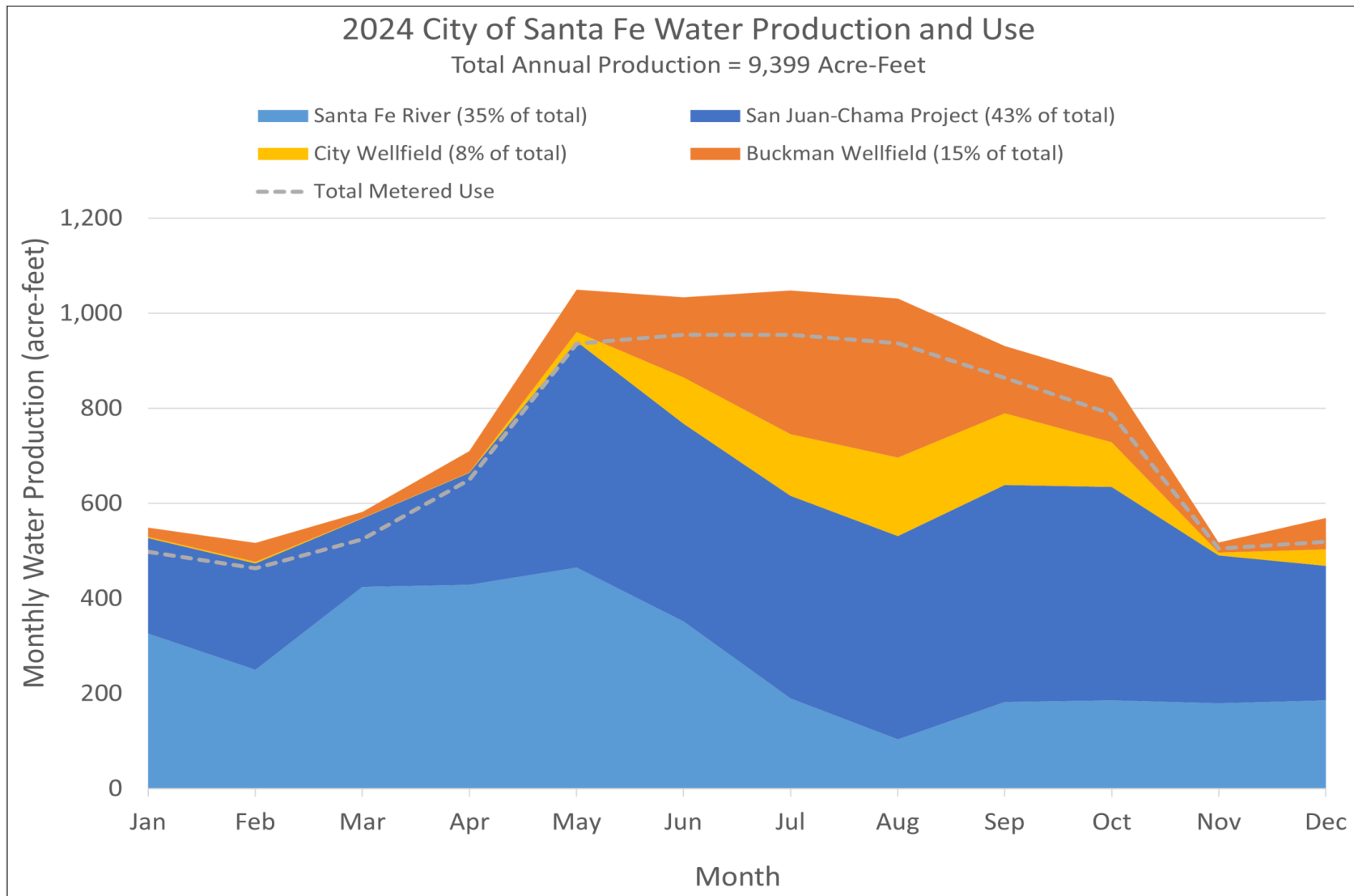
Current Demand and Supply (average of last 14 years)



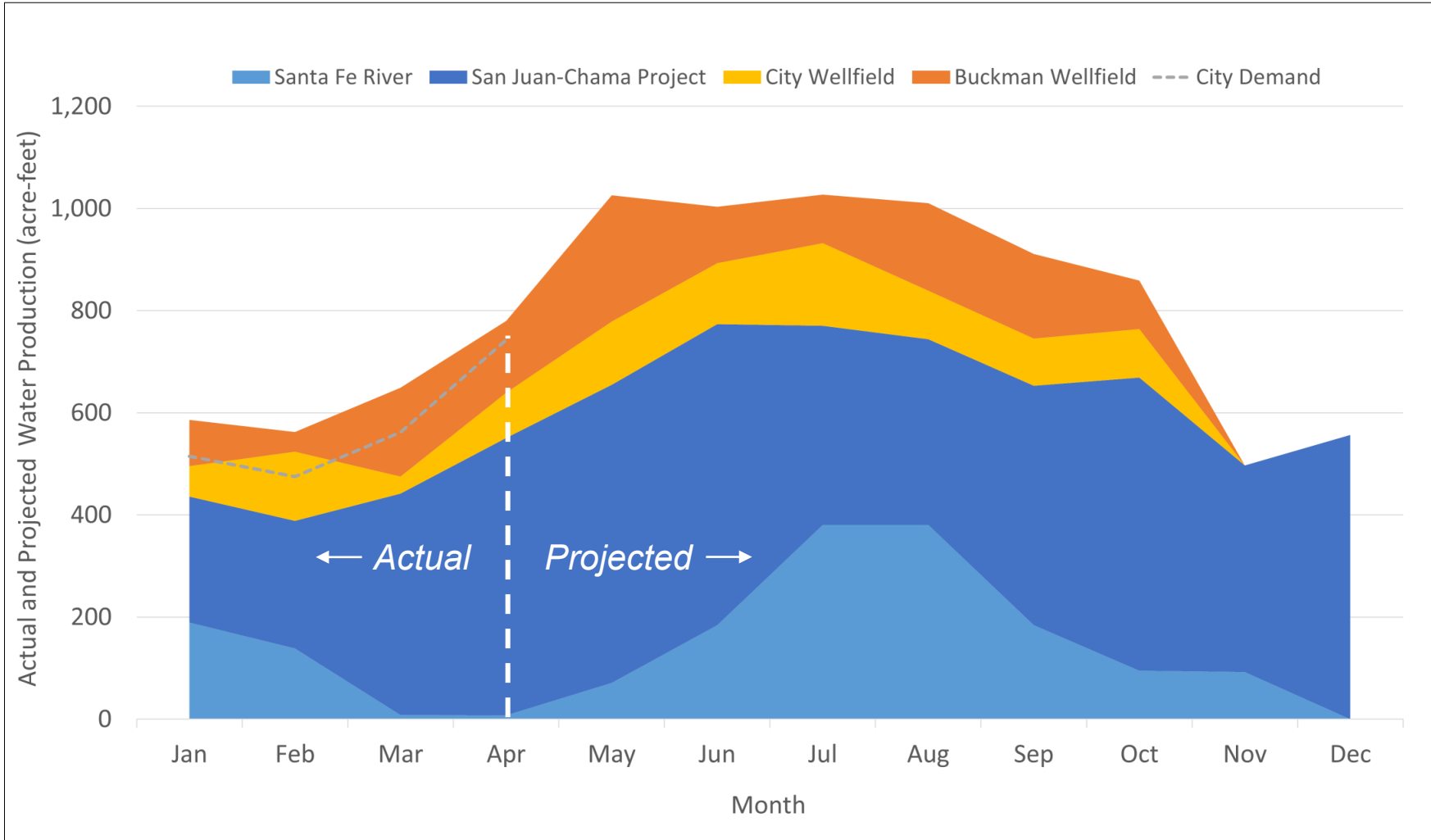
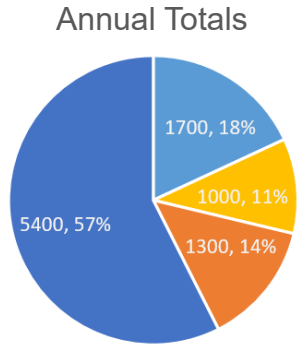
2024 Sources of supply



2024 Water Production and Use

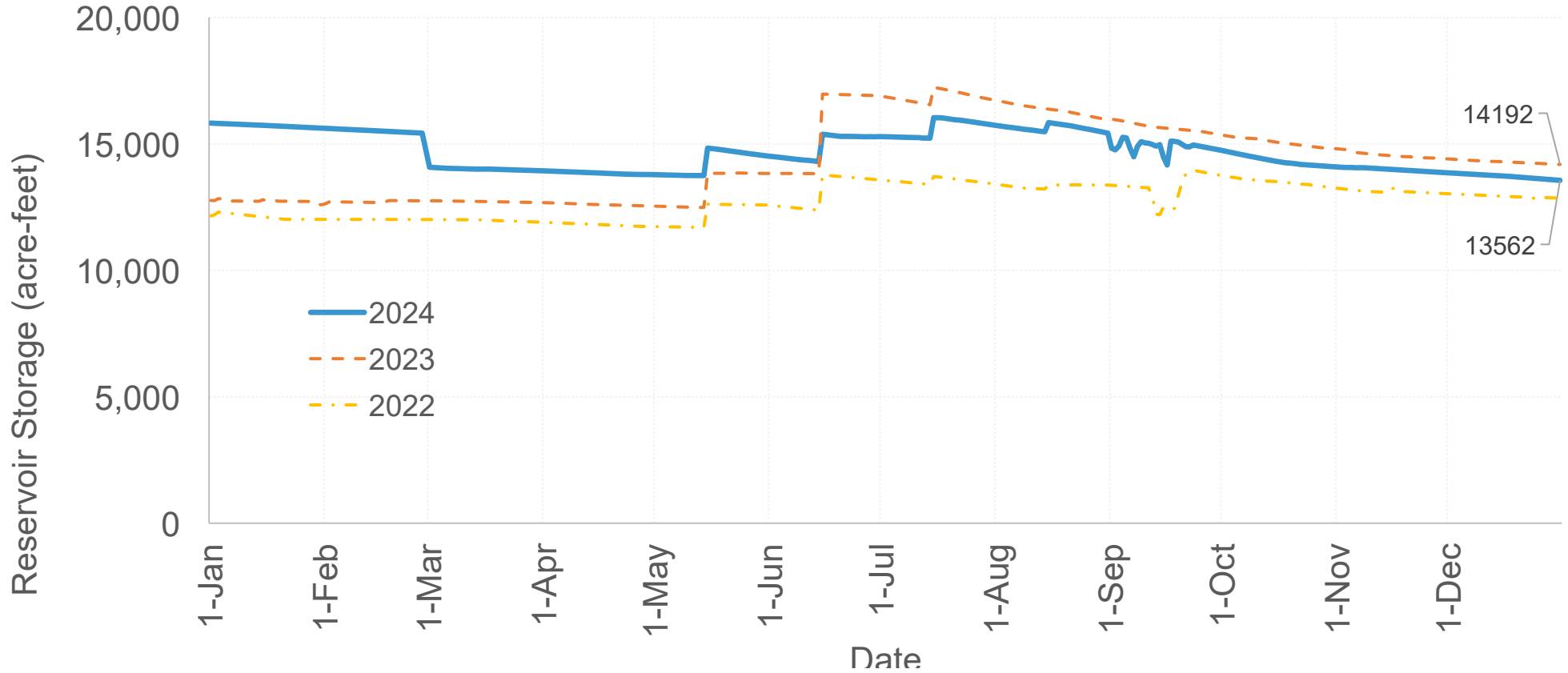


Sources of water for 2025



2024 Reservoir Storage

Total San Juan-Chama Project Storage



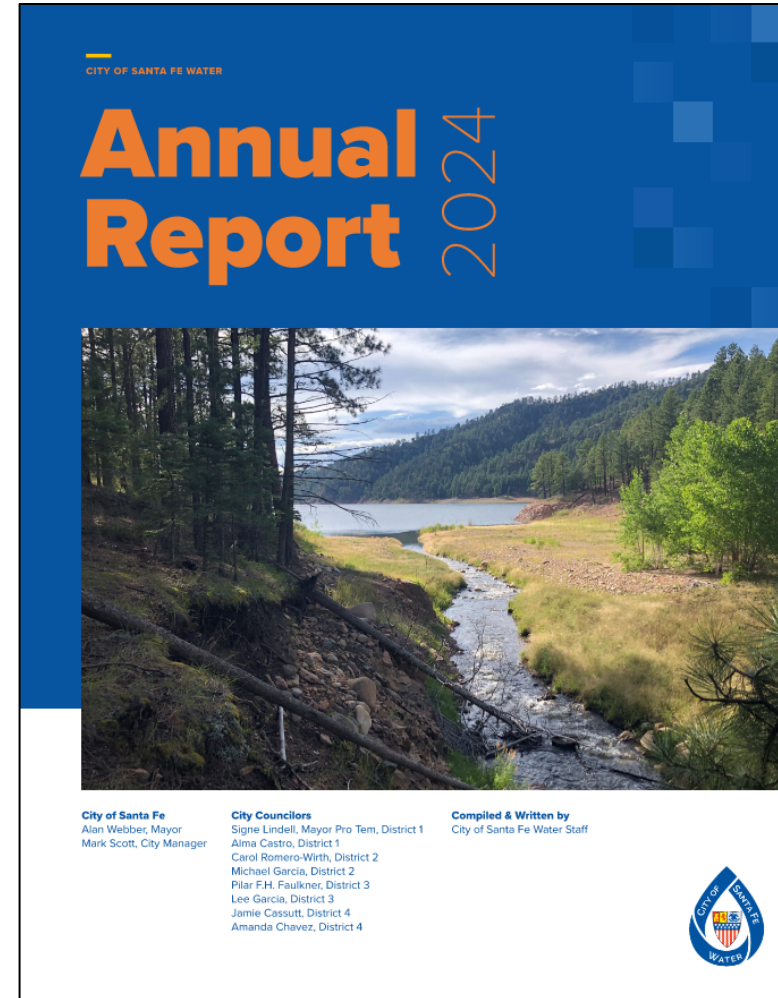
City of Las Vegas Water Deliveries

- Transmission & Distribution and BDD delivered 1.4 million gallons of water to the City of Las Vegas in 2024, plus 4.8 million gallons in 2025
 - 2024: Flash floods in late June washed ash, silt, and fire debris from the Hermit's Peak/Calf Canyon Fire into the Gallinas River and Bradner Reservoir, upsetting their water treatment process
 - 2025: Issues with pre-treatment turbidity and associated limited treatment plant capacity, combined with water main break, resulted in low system pressure and the need for additional water



2024 City of Santa Fe Water Annual Report

- Key figures from the 2024 annual report are included in this presentation.
- Full report: <https://santafenm.gov/water>



Daily, Weekly, Monthly, Annual Water Operations Planning

- Weekly, Monthly, and Annual Water Operations Planning is done by City, County, BDD, and Las Campanas staff during a weekly Zoom meeting

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Weekly Average Production Projections from Weekly WR Meetings and Actuals (MGD)													
2		Start Storage	Production Demand				Canyon Road		BDD		City Wells		Buckman Wells	
3	7 days starting	MG	ET Corr	ET Corr	Staff Ave	Actual	WR	Actual	WR	Actual	WR	Actual	WR	Actual
4	12/30/2024	24.362			6.6	6.7	2	2.0	3.5	3.6	0.6	0.9	0.5	0.2
5	1/6/2025	24.117			6.5	6.4	2.0	2.0	3.5	3.4	1.0	0.6	0	0.2
6	1/13/2025	23.452			6.4	6.4	2	2.0	3.1	2.7	0	0.6	1.3	1.4
7	1/20/2025	25.216			6.3	7.1	2	2.0	2.5	2.9	0	0.1	1.8	1.8
8	1/27/2025	23.274			6.6	6.9	2	2.0	3.5	3.0	0.9	1.1	0.3	0.8
9	2/3/2025	22.265			7.0	7.1	2	2.0	3.5	3.4	1.5	1.9	0	0.2
10	2/10/2025	25.547			6.9	6.5	2	2.0	3.5	3.4	1.4	1.0	0	0.1
11	2/17/2025	25.009			7.1	7.1	1.3	1.3	3.6	3.3	1.4	1.4	0.8	0.5
12	2/24/2025	20.342			7.4	7.4	1	1.0	3.5	3.8	2.1	2.3	0.8	1.0
13	3/3/2025	25.059			7.1	6.7	0	0.1	6.8	5.6	0.3	0.8		0.2
14	3/10/2025	25.385			7.0	7.0	0	0.0	5.1	5.6		0.0	1.9	1.5
15	3/17/2025	26.705			7.2	7.4	0	0.0	4.2	4.2		0.0	3	3.1
16	3/24/2025	25.850			7.9	8.3	0	0.0	4.8	5.4	0	0.0	3.1	2.9
17	3/31/2025	26.627	6.8	6.9	8.1	7.6	0.2	0.4	5.2	4.4	0.8	0.0	1.9	2.7
18	4/7/2025	25.897	9.3	9.4	8.6	8.9	0	0.0	6.0	6.0	1.3	1.1	1.3	2.0
19	4/14/2025	27.346	8.9	8.5	9.3	9.7	0	0.0	7.7	7.1	0	0.6	1.6	1.9
20	4/21/2025	26.880	9.7	9.7	10.1	10.4	0	0.0	7.8	8.0	2.3	1.8	0	0.6
21	4/28/2025	27.080	9.1	8.6	10.3	10.4	0	0.0	6.7	8.1	3.1	2.0	0.5	0.5
22	5/5/2025	28.167	8.4	7.0	8.9	8.4	0	0.0	7.6	7.3	1.3	1.3	0	0.0
23	5/12/2025	29.068	10.7		10.4		1		8.4		1			
24	5/19/2025													
25	5/26/2025													
26	6/2/2025													

22	Most likely scenario as of 4/29/2025													
23	Monthly Average Water Operations Projections (MGD)													
24		County BDD		City&County		Canyon Road		BDD		City Wells		Buckman		
25	Month	WR	Actual	WR	Actual	WR	Actual	WR	Actual	WR	Actual	WR	Actual	
26	Jan-25	0.5	0.5	6.7	6.7	2.0	2.0	3.1	3.1	0.6	0.6	1.0	1.0	
27	Feb-25	0.5	0.5	7.1	7.1	1.6	1.6	3.4	3.4	1.6	1.6	0.5	0.5	
28	Mar-25	0.5	0.5	7.4	7.4	0.1	0.1	5.1	5.1	0.3	0.3	1.8	1.8	
29	Apr-25	1.2		8.5		0		6.5		1.0		1		
30	May-25	1.5		12.3		0.75		7.7		1.3		2.6		
31	Jun-25	1.7		12.6		2		8.1		1.3		1.2		
32	Jul-25	1.6		12.4		4		5.7		1.7		1		
33	Aug-25	1.6		12.2		4		5.4		1.0		1.8		
34	Sep-25	1.6		11.5		2		6.7		1.0		1.8		
35	Oct-25	1.2		10.2		1		7.2		1.0		1		
36	Nov-25	0.9		6.3		1		5.3		0.0		0		
37	Dec-25	0.8		6.6		0		6.6		0.0		0		
38	Total (MG)	415.3	45.4	3468		561.8		2161		328.3		417.2	98.84	
39	Total (AF)	1271	139	10613		1719		6613		1004		1277	302	

- Daily changes or adjustments to the weekly operations plan due to unforeseen events are done via direct communications between City and BDD



Native Water Diversion Constraint BDD

County diverts native water at BDD, City diverts SJC water at BDD

Native Rio Grande River diversion curtailments, which were required by the Biological Opinion, are addressed in the table below:

Native Rio Grande flows * (cfs)	March Max Diversion (cfs) mgd	April Max Diversion (cfs) mgd	May Max Diversion (cfs) mgd	June Max Diversion (cfs) mgd	July Max Diversion (cfs) mgd	August Max Diversion (cfs) mgd	September Max Diversion (cfs) mgd	October Max Diversion (cfs) mgd
> 325	3.82 2.5	4.6 3	6.87 4.4	8.55 5.5	7.95 5.1	7.56 4.9	6.57 4.2	5.09 3.3
300	3.05	3.68	5.50	6.84	6.36	6.05	5.26	4.07
280	2.44	2.95	4.40	5.47	5.09	4.84	4.21	3.26
260	1.83	2.21	3.30	4.10	3.82	3.63	3.16	2.44
240	1.22	1.47	2.20	2.73	2.54	3.42	2.10	1.63
220	0.61	0.74	1.10	1.37	1.27	1.21	1.05	0.81
200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* 5 day average native Rio Grande flow at Otowi gage

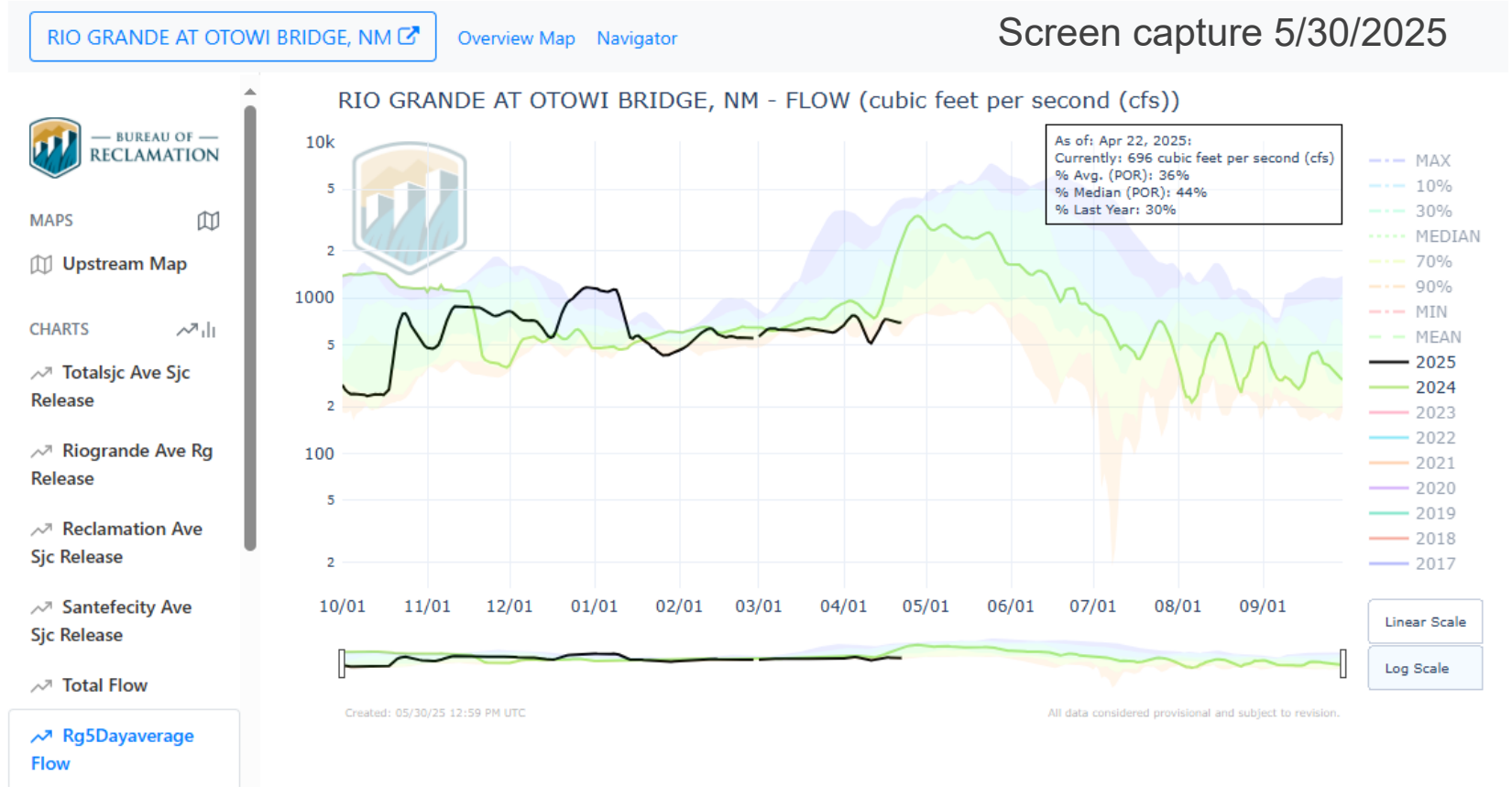
Maximum native diversion March – October from this table: 3088 AF, max annual from permit 3500 AF



Native Water Diversion Constraint BDD

County diverts native water at BDD, City diverts SJC water at BDD

- How do we know the 5 day average of native flows at Otowi?
- URGWOM



Long Range Water Resources Planning



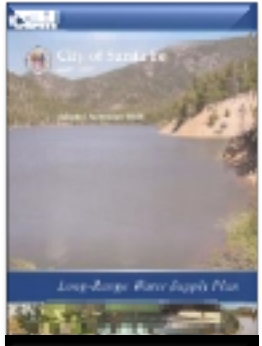
1988



1998



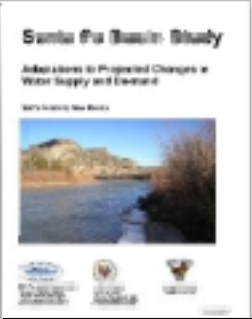
2001



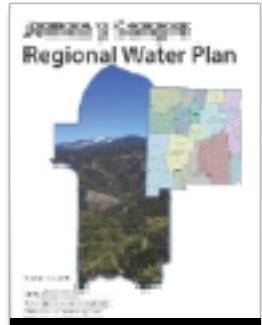
2008



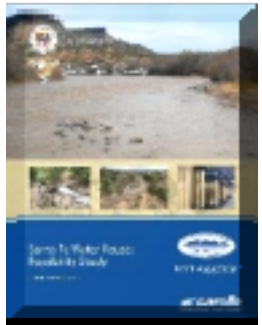
2013



2015



2016



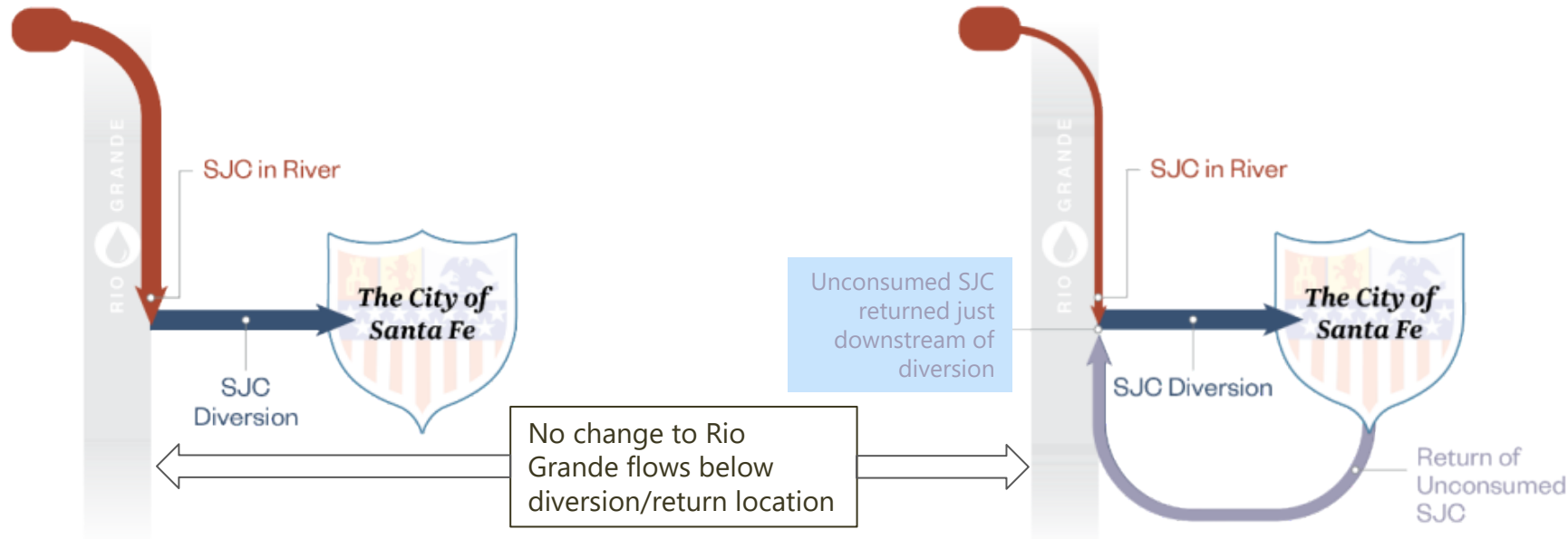
2017



San Juan Chama Return Flow Project

Full consumption of SJC water

- Goal: Fully consume San Juan Chama (SJC) water by keeping river whole with effluent return

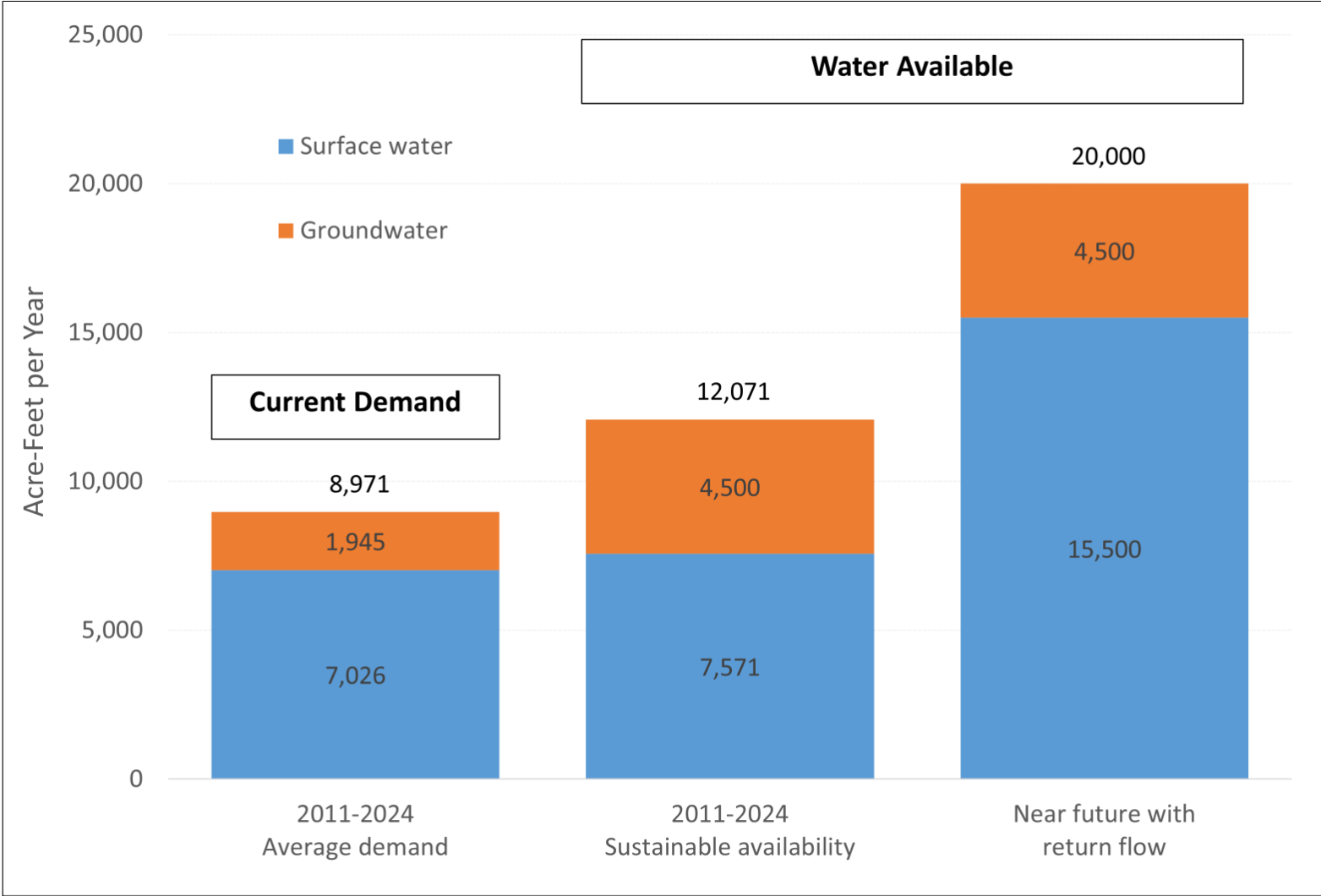


Current: Water diverted at BDD comes from upstream reservoir

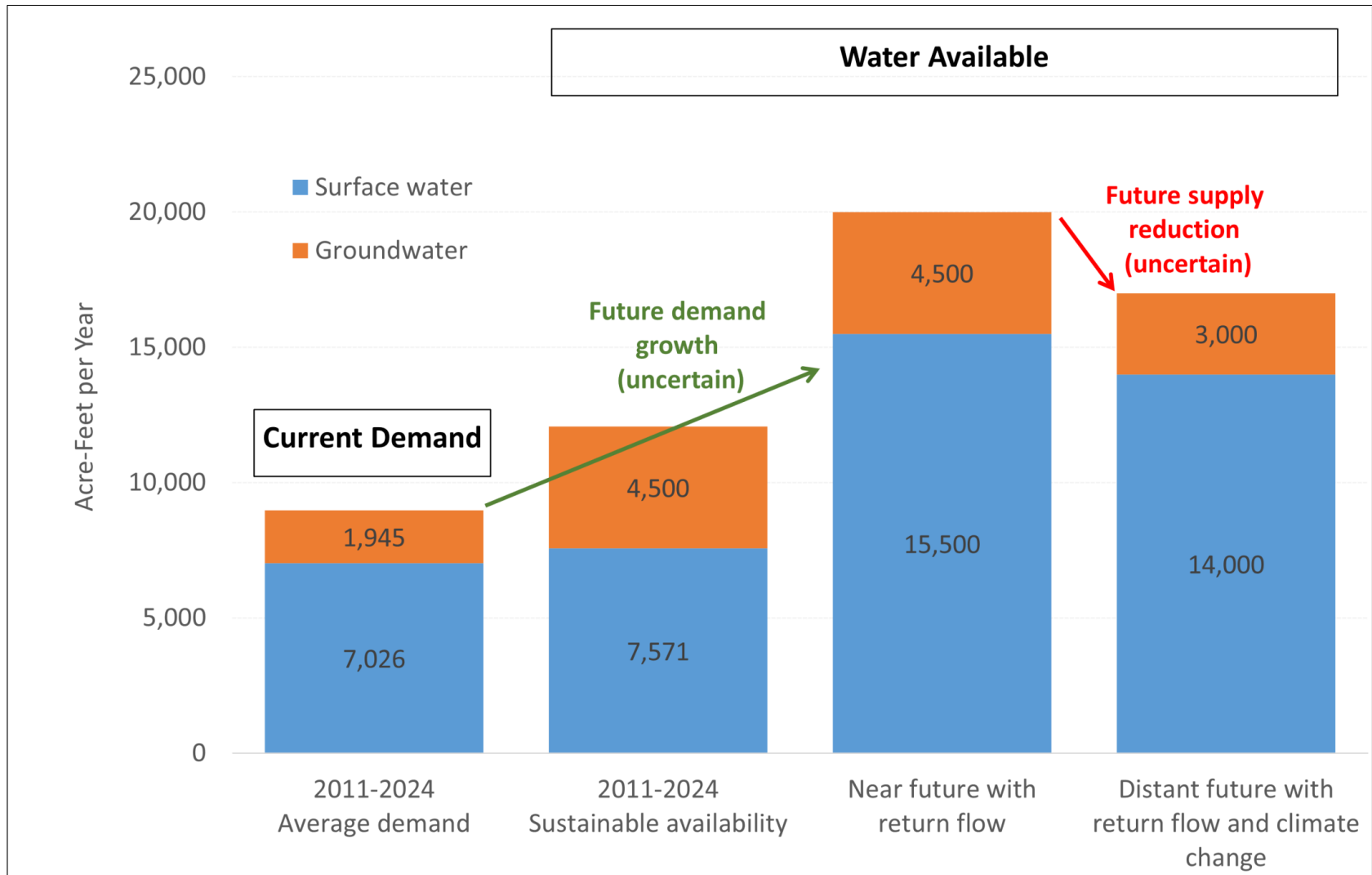
With project: Water diverted at BDD comes from upstream reservoir and effluent return



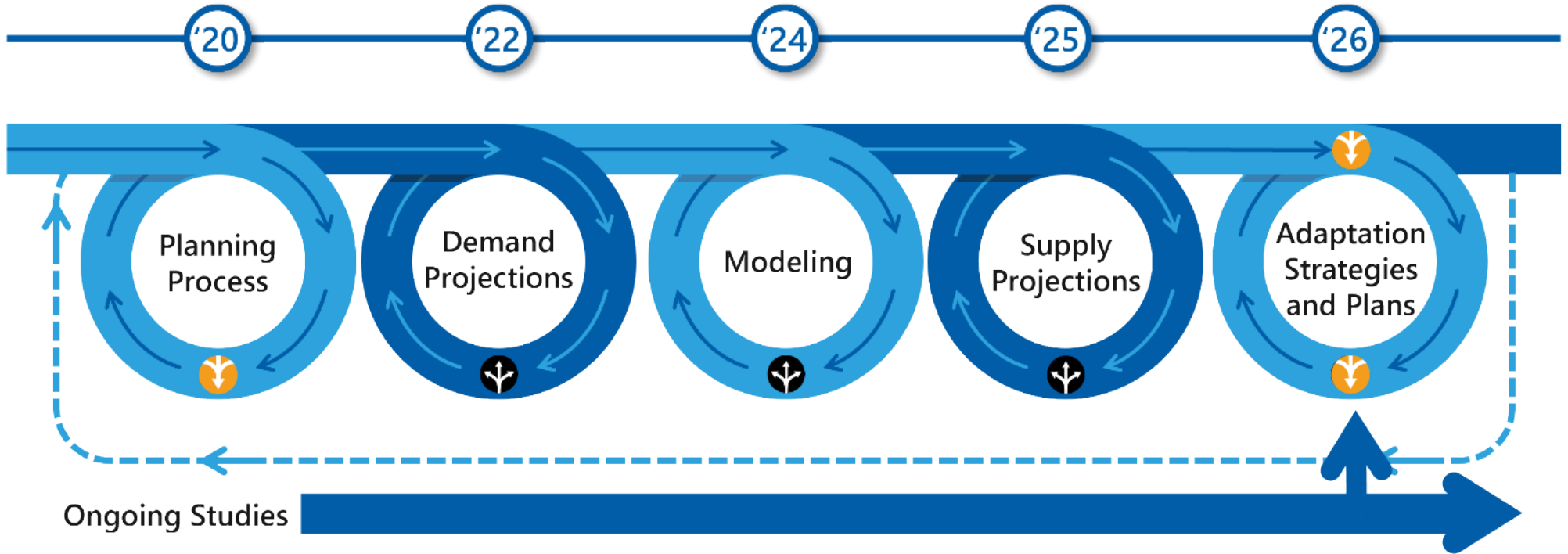
Near term plan: San Juan- Chama Return Flow Project



Long-Term Planning



Water 2100: Long-Range Water Supply Planning



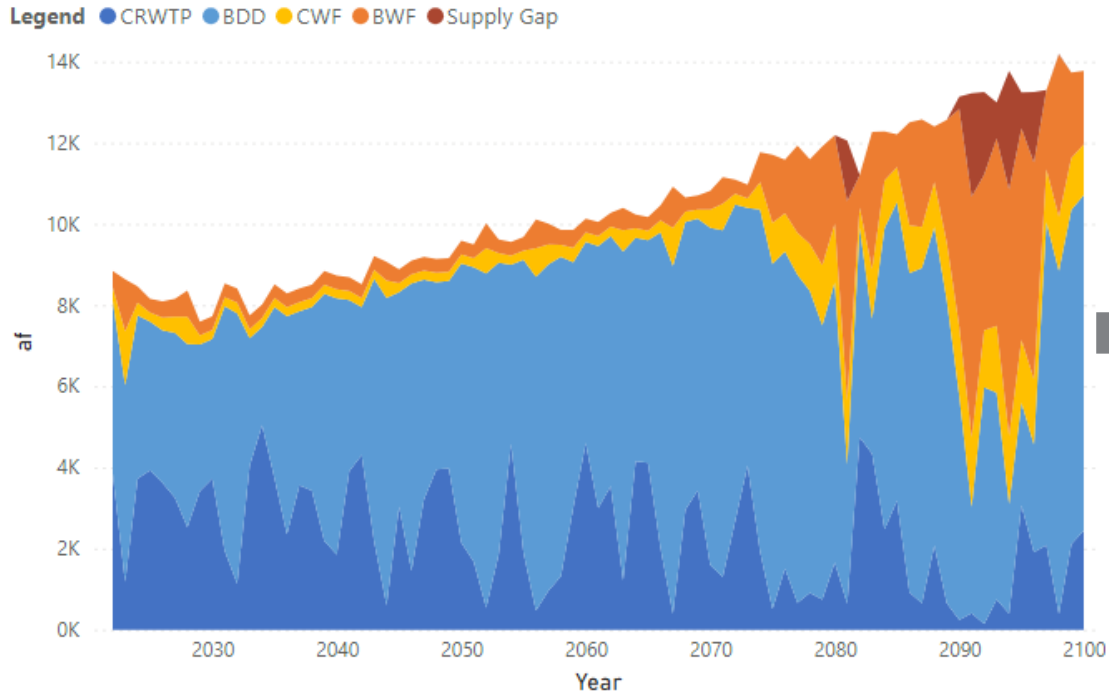
 Public Q&A

 Public Feedback

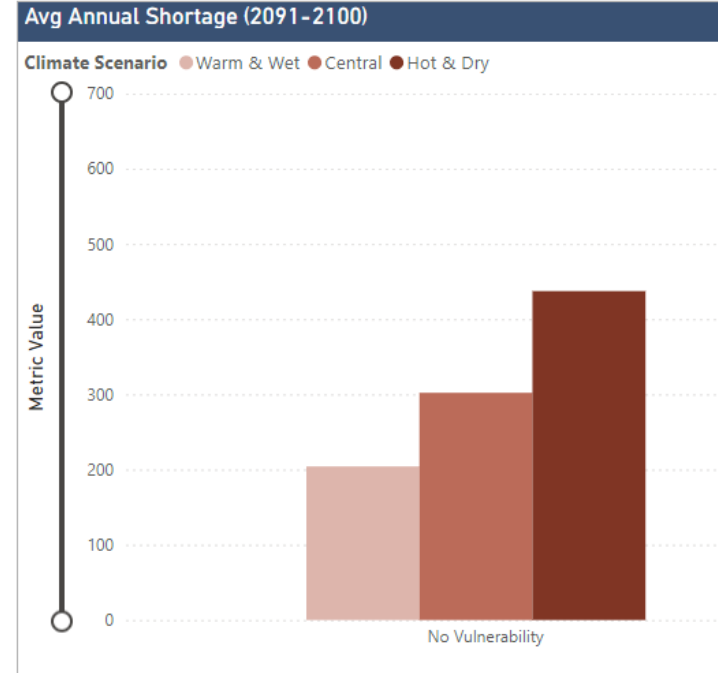
Water 2100 Progress (Calendar Year 2024)

- Modeling / approach
 - Presented model and approach to public, December 2024

1 run



104 runs



Water 2100 Progress (Calendar Year 2024)

- Modeling / approach
 - Presented model and approach to public, December 2024
 - Planning for resilience under a wide range of future conditions
 - *Considers extended supply disruptions due to variety of causes (e.g., wildfire)*
 - *Considers range of climate change hydrology*
 - Proposed four “criteria” to define our goals
 - *Reliability, sustainability, social, and environmental*
- Supply Projections
 - Coordination with and review of USBR/UMASS climate hydrology projections
 - Groundwater analysis: effect of climate change + projecting groundwater level change and associated pumping capacities
 - Next up: plan to present supply projections to public in late 2025



Questions?

