



**WATER SUPPLY
DIVERSIFICATION
TO IMPROVE
WATER QUALITY
AND RESILIENCE**





WOODLAND-DAVIS Clean Water Agency

Governing Board:

- 2 Council Members from each City
- Non-Voting Representative from UC Davis and Yolo County

Formed

September 15, 2009

JPA

Cities of Davis and Woodland
UC Davis a Contracting Agency

Funded

User fees in each city; cost
sharing based on capacity
allocation



Project Goals and Objectives

**Quantity &
Quality**

Improve water supply quantity and quality

Regulations

Comply with drinking water & wastewater discharge regulatory requirements

Environmental

Provide environmental benefits and minimize impacts

Diversify

Diversify supply portfolio to improve supply reliability

**Sustainable
GW**

Allow sustainable groundwater pumping integrated with ASR wells

Conservation

Integrate water conservation elements

Climate Adaptation Measures

- Water supply fluctuates with water rights
 - California only receives rain in a few winter months
 - WDCWA may purchase water
- Aquifer Storage & Recovery Wells
- Recycled Water Utility
- Maintain native groundwater wells as backup supply
- Water Conservation
 - 1995-2005 average use was 290 gallons/person/day
 - 2020-2022 average use is 152 gallons/person/day
 - Aquahawk Program and Water Conservation Team

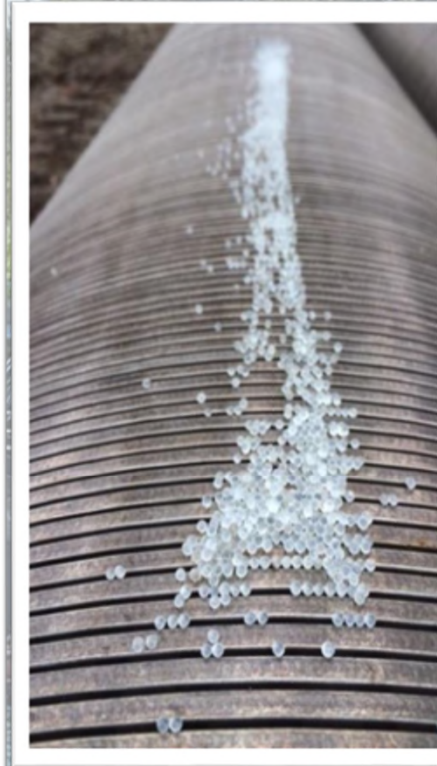
Aquifer Storage & Recovery Wells

Why ASR?

Use of native groundwater is less than preferred

Cost is \$10M per well to permit/construct (*much lower cost than a reservoir or water purchases*)

Water purchase may not be available during droughts



Aquifer Storage & Recovery Wells

City of Woodland

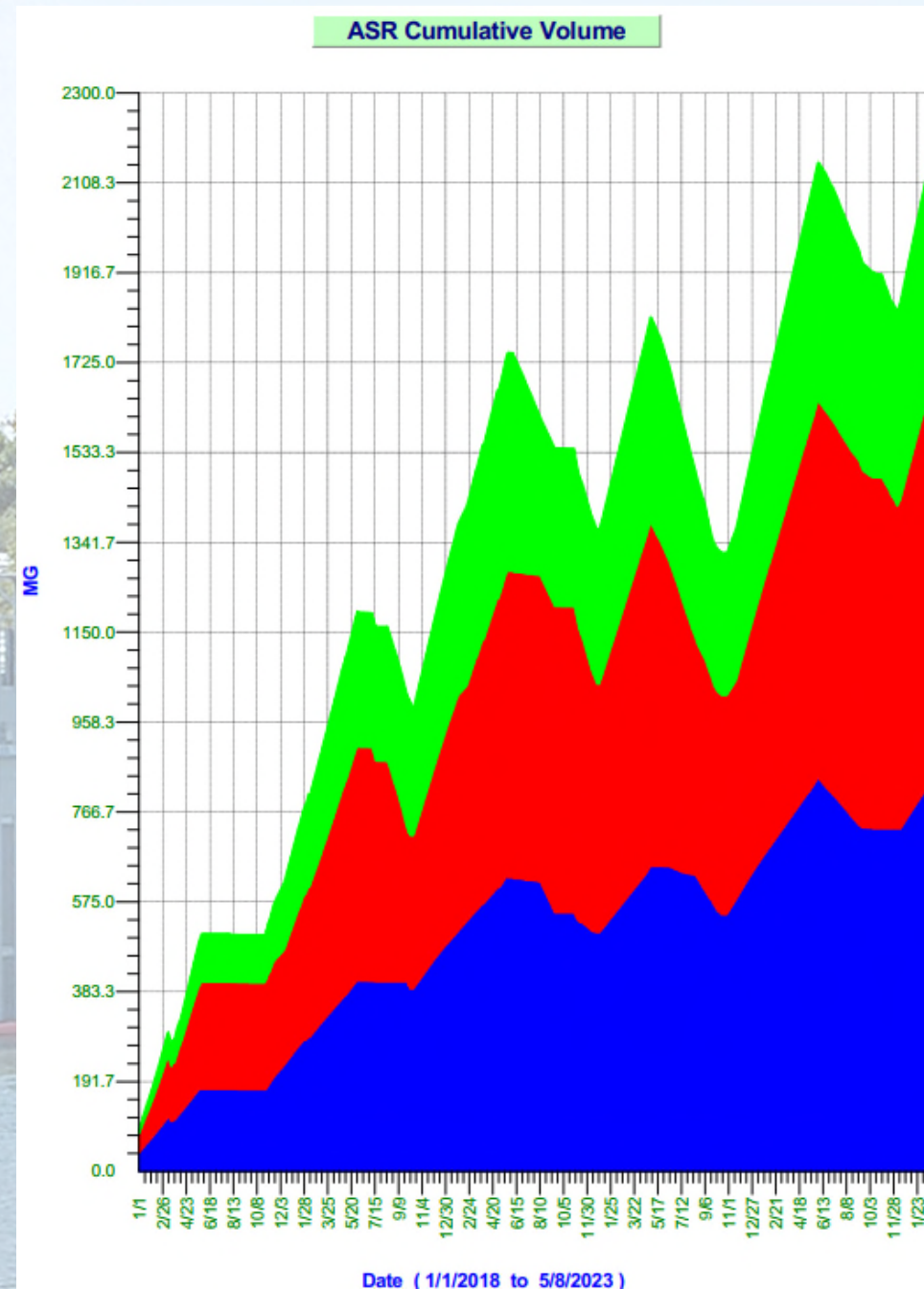
3 ASR Wells constructed

Significant water quality testing

Stored 590 million gallons this past winter

Maintains year-round surface water quality

Up to 30% of summer supply



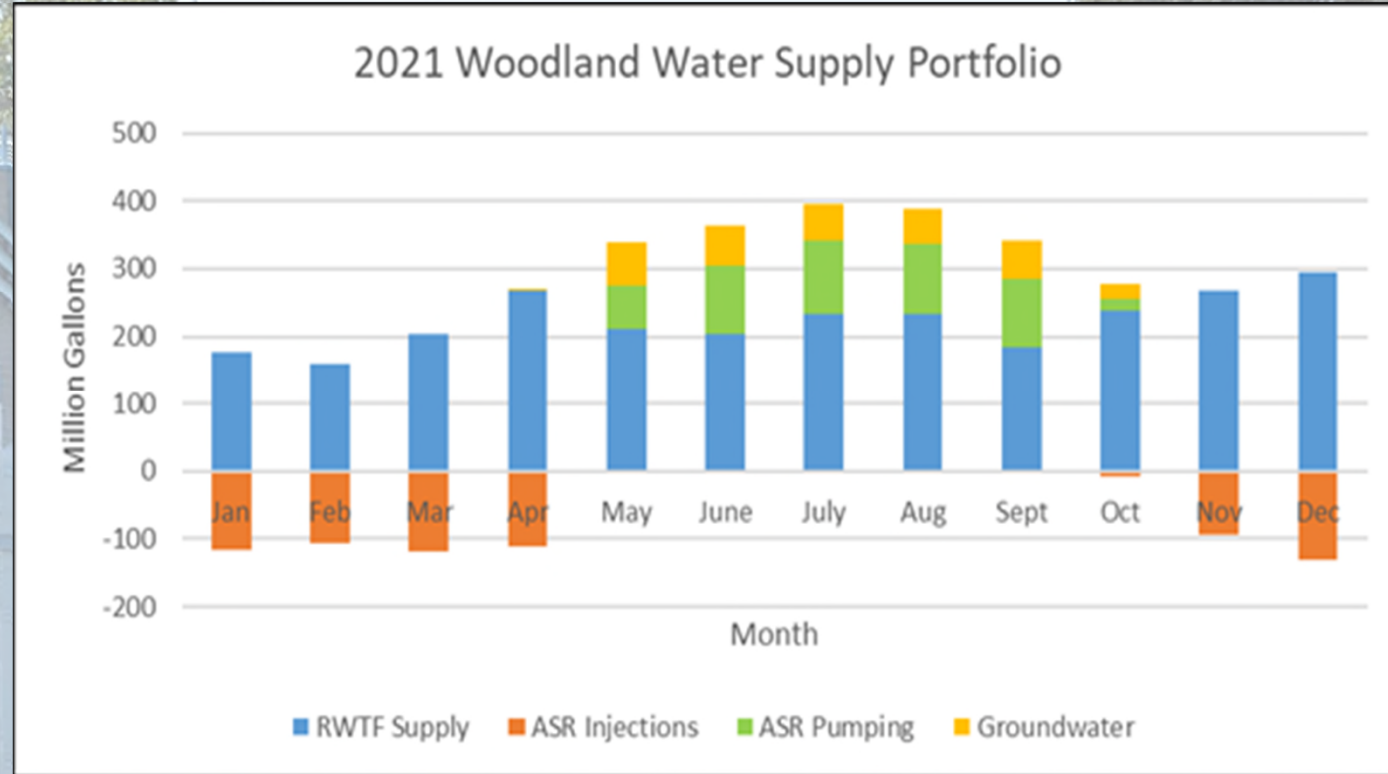
Woodland Water Supply

Quality of Woodland

3 ASR Wells constructed

3 Blending Wells

Maintain consistent water quality to all customers



Recycled Water Utility

City of Woodland

- Approximately 0.5 MGD
- Industrial – power plant
- Landscape irrigation – 2 City parks
- Expansion for landscape irrigation in 2023
- Construction Water
- Agricultural Irrigation

Funding is through State grant and low interest loans.
Lower cost water than potable.

