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Overview of the City's Demand Management Programs - Providing Water for Future Growth

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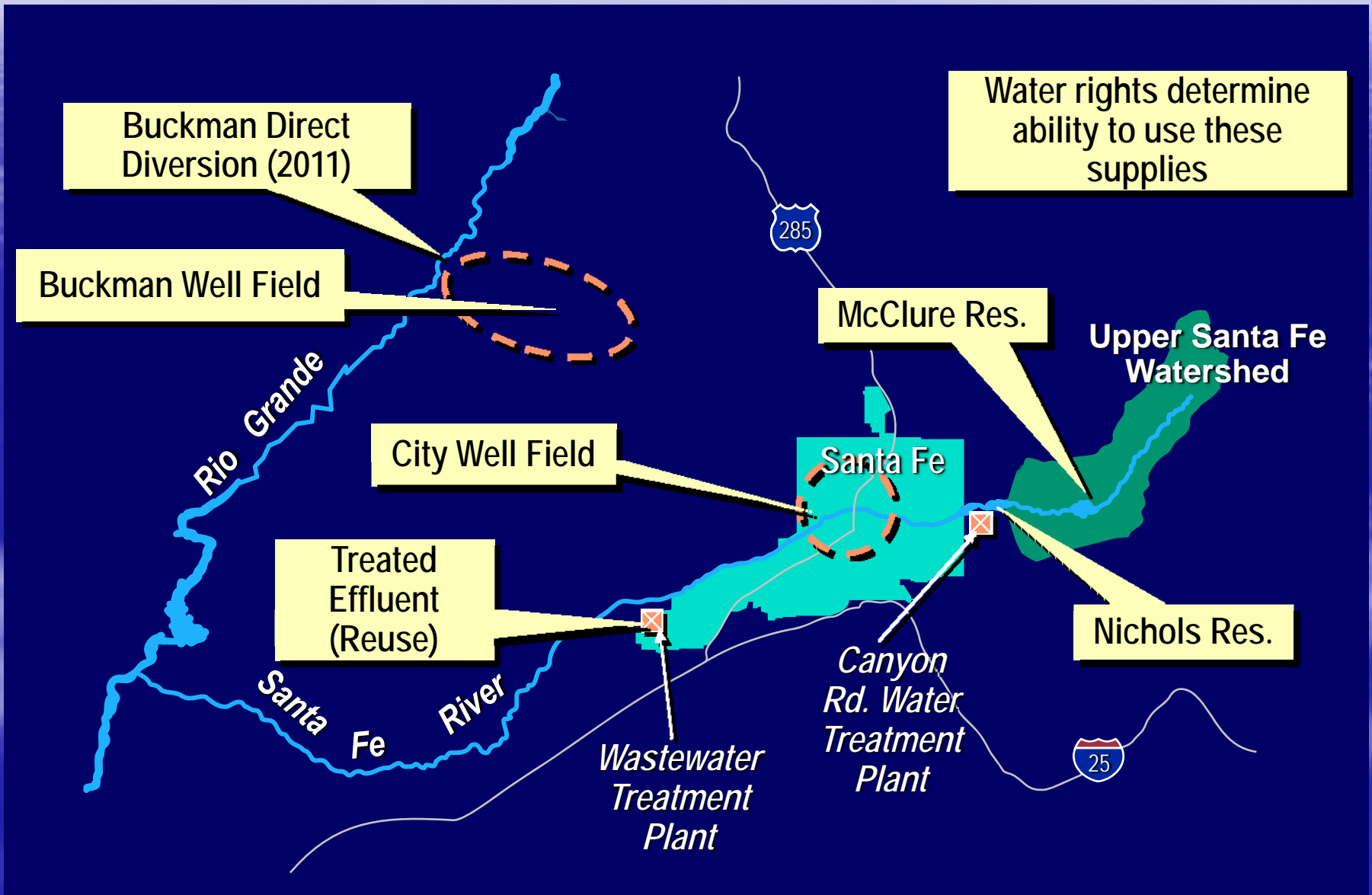


Overview of the City's Demand Management Programs – Providing Water for Future Growth

Dale Lyons
Water Resources Coordinator
City of Santa Fe

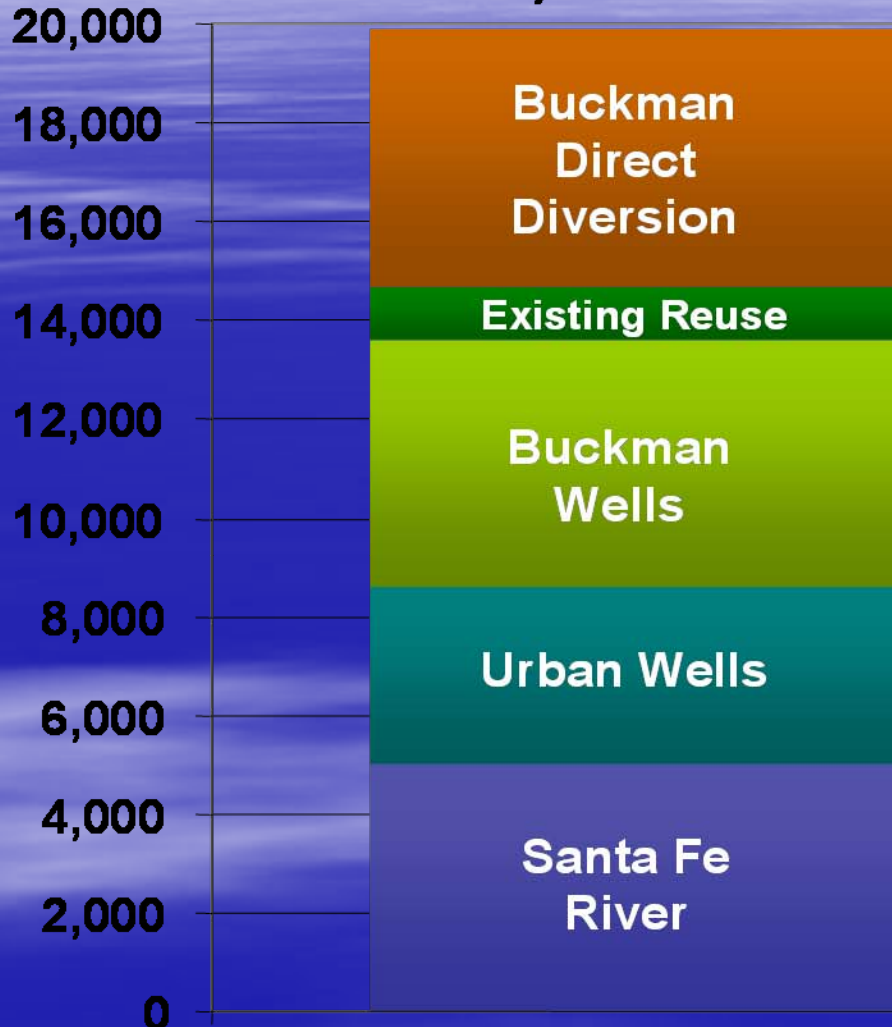
October 17th, 2008
Utton Center
Land and Water Planning in the Middle Valley

The City's existing sources of supply



Variability in Supply

19,900 AFY



**Baseline Production
(Typical)**

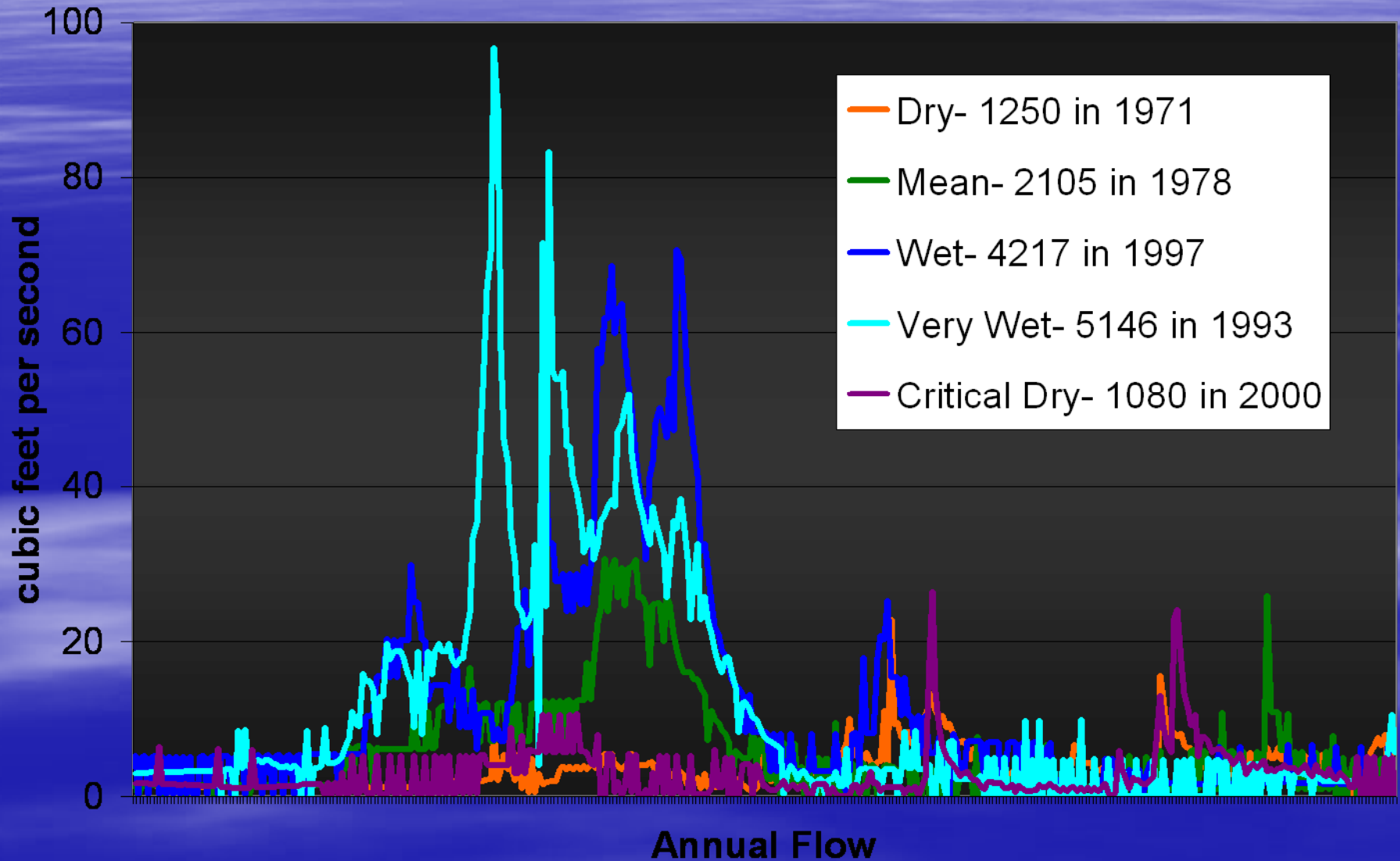
15,400 AFY



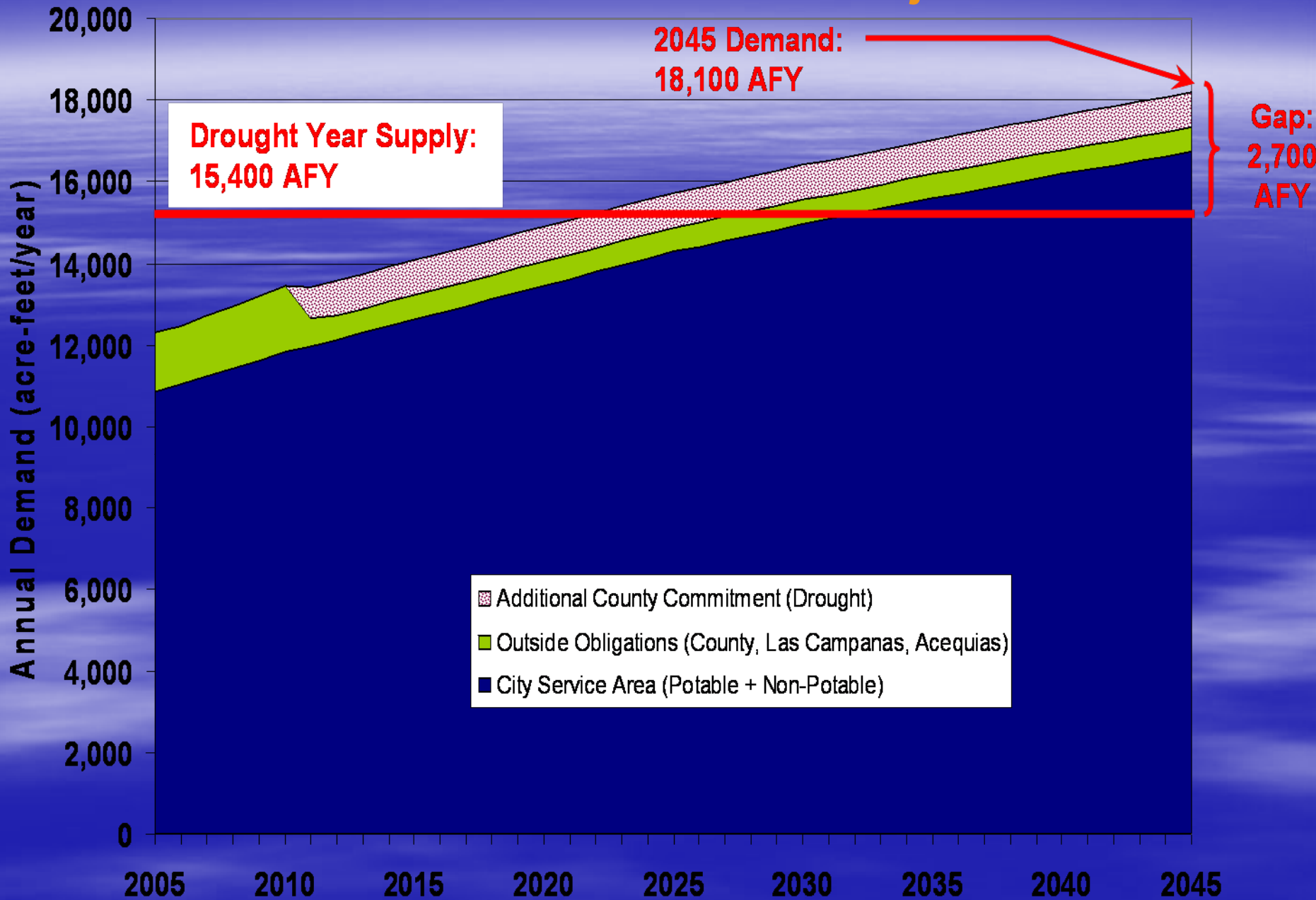
**Baseline Production
(Drought)**

Santa Fe River Variable Yield

Santa Fe River Hydrographs



Annual Demand Increase Projection

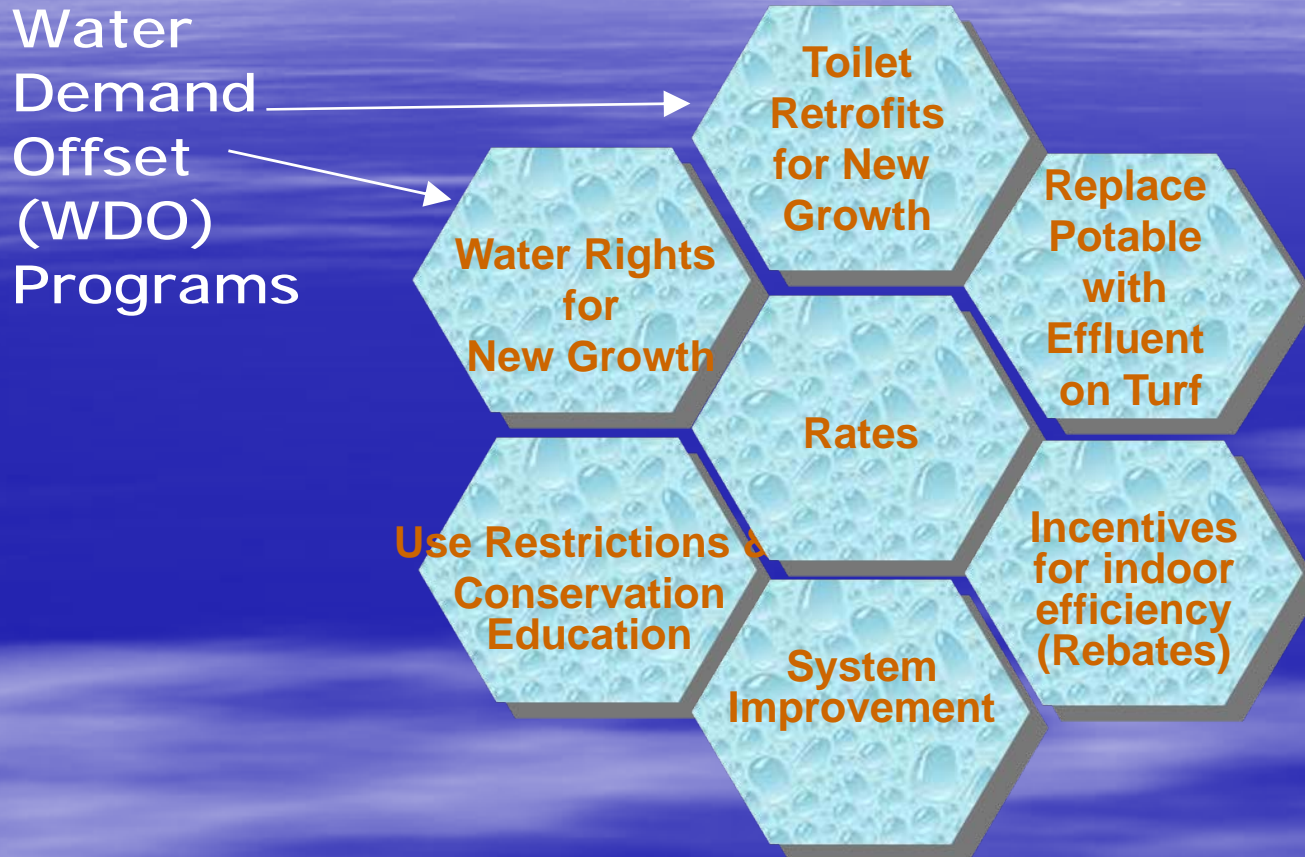


Driver to action

- **CRISIS:** Droughts of 1996 and 2002- peak summer demand exceeded peak system capacity

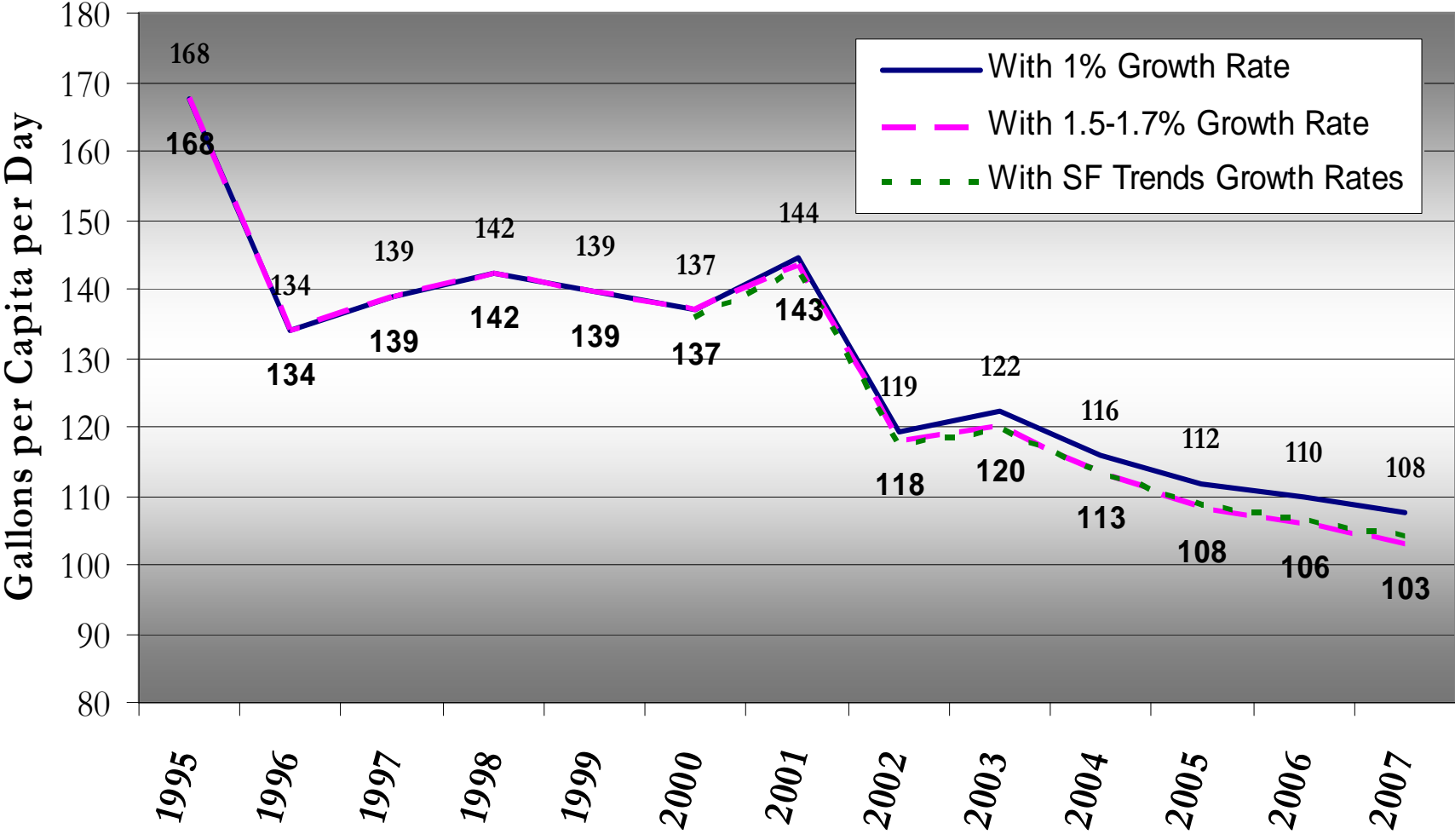


What policies and programs did we implement?



It all began with the Comprehensive Water Conservation Ordinance in 1997...

Effectiveness



Gallons per capita per day 1995-2007

Development Water Budget Determines form of WDO

New Development Demand on
City Water Utility (AFY)



Residential < 10 AFY

Commercial < 5 AFY

Offset New
Demand with
Conservation

Residential > 10 AFY

Commercial > 5 AFY

Offset New
Demand with
Water Rights

Current Water Right Transfer Program

- Requires land developers to bring valid water rights for project in order to build
- Water rights can also be banked, marketed to developers
- Water rights currently being transferred to the City's Buckman Well permit for offsets

Current Retrofit Program

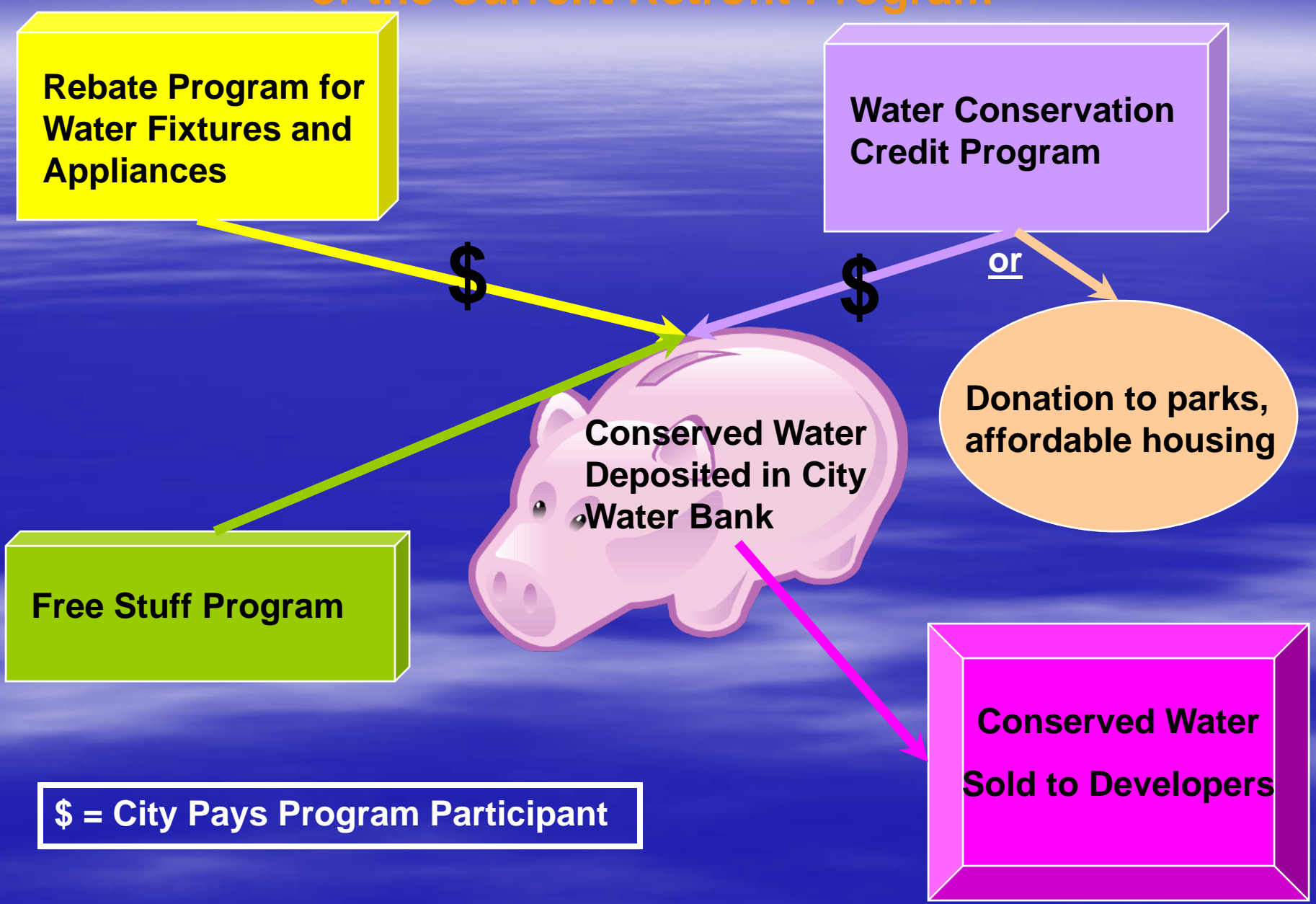
- Developers are required to offset anticipated new water system demand by increasing conservation in existing development through toilet retrofits
- For example: One new housing unit retrofits between 8-12 toilets dependent upon lot size



Problems with Current Retrofit Program

- Running out of toilets to retrofit – approx. only 20% left
- Speculators, not involved in development, have acquired retrofit credits, partially controlling price developers pay
- Developers prefer to pay a fee for offset water rather than be responsible for doing conservation

Proposed New Water Demand Offset Program – Replacement of the Current Retrofit Program



City Water Bank - WDO



Developer Payment to City for Offset Water

New Water Demand



Water Demand Offset for New Development

Rebate Program

Water
Customer with
Old Fixtures &
Appliances



Customer Purchases and
Installs New Fixtures/
Appliances



Verification of Retrofits:
City Inspection and
Purchase Receipt



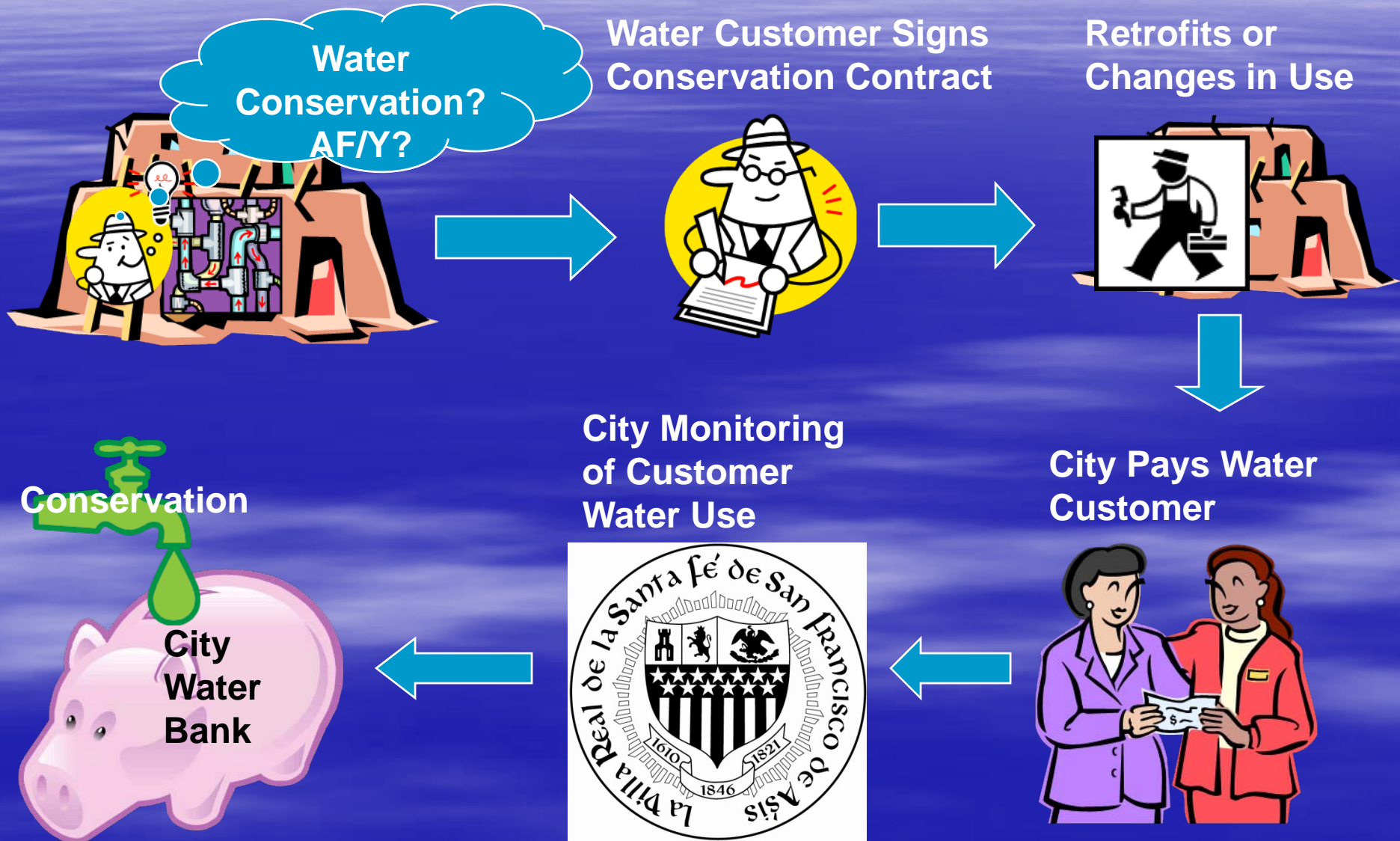
City Pays
Property Owner
Rebate



Conservation



Water Conservation Credit Program



Free Stuff Program

City Water
Conservation Group



50% of Conservation to
Water Bank



Evolution of the City's Demand Management Programs

- Despite the fact that conservation requires a great deal of effort, and buy-in from stakeholders can be a difficult and long process, conservation still remains the cheapest source of water.
- Because of the importance of conserved water to the City's future, the City and stakeholders will continue to explore new ways to conserve water.



Thank You

