

State Water Resources Control Board

December 17, 2014

Regional & Local Initiatives Addressing Drought, Increasing Water-Use Efficiency, Agency Finances and End-User Acceptance:

The Problem
Solving for the Problem
State Legislation and Efficiency Standards
The Data & Tools to Support Agencies to Meet State Efficiency Goals





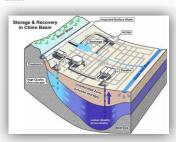
- MWD member wholesale agency
- 7 retail member agencies
- 850,000 population in service area
- \$500 million in "local water" development over past 15 years

New Initiatives:

- Significant increase in WUE
- Assist member agencies
 with revenue and conservation
 in the form of new rate designs,
 data collection, tools, and public
 outreach
- Exceed current 20x2020 goal



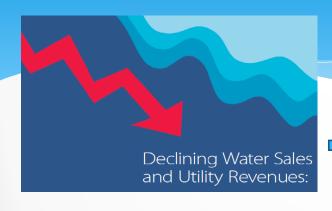




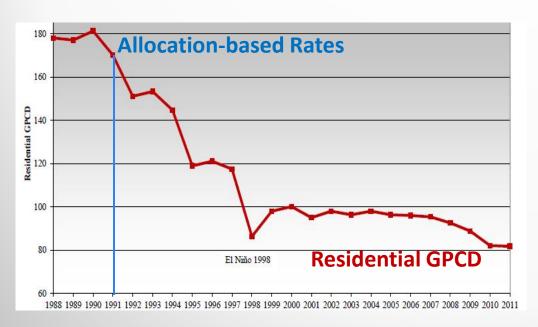


The Problem:

The Solution:







"The most important rate design criteria are fiscal adequacy (collection of the agency revenue requirement), efficiency (encouragement of economically efficient consumption and discouragement of waste), and fairness to all customer classes."

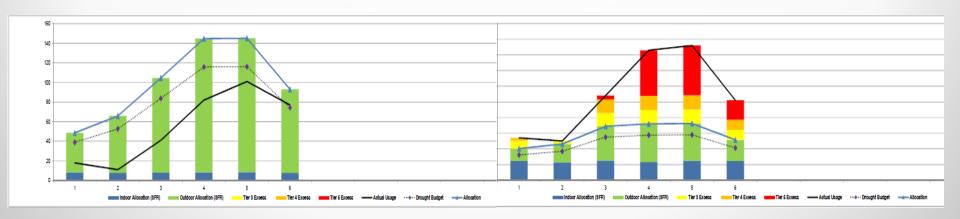
Scott Ruban, J.D.
National Public Policy Institute



The State Has Set the Standards:

Indoor Allocation (SBX7-7) (AB 1881)

Water Budget = (# Residents) (55gpcd) + (ET) (.80) (SF of Landscape) (DF)



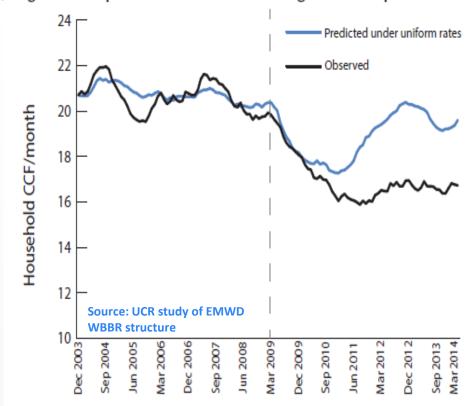


Why a Water Budget Rate Design is Sustainable?

Agency:

- Recover costs of service accurately while customers use less water
- Accurately portrays what the agency really does (provides "reliable" water service)
- Recognizes and rewards efficient users, penalizes water waste
- Provides the retail agency with a new, independent source of funding for conservation programs (paid <u>only</u> by those who use water over State efficiency standards)

Figure 1. Comparison of observed demand against model predictions



Vertical dashed line indicates the date when the water budget IBR price structure was implemented.



Regional & Local Agency Initiative

✓ Collect Data

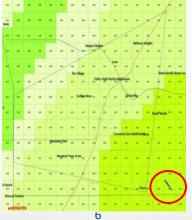
(ET) (.80) (SF of Landscape)

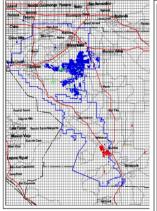




Western Municipal WD Eastern Municipal WD San Bernardino Valley WD **Orange Co. Water District Inland Empire Utilities Agency**



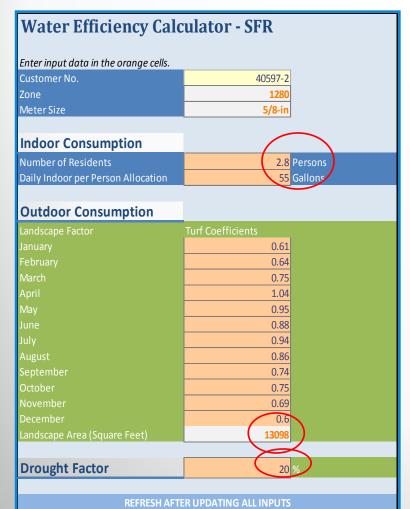






Use Data to Measure Efficiency

✓ Build Tools



Cust.	Average Usage as Percentage of		
No	Water Budget -		
42527-1	260.1%		
41617-1	259.4%		
40726-1	256.0%		
42525-1	252.9%		

Most inefficient users, top drought response targets

Cust. No	Average Usage as Percentage of Water Budget	
40688-1	35.3%	
40035-1	34.0%	
40107-1	33.0%	
40935-1	31.5%	_

Efficient customers not included in drought outreach

Consumption	% of Customers
At or below allocation	74.1%
Greater than 100% up to 125% of allocation	17.6%
Greater than 125% up to 150% of allocation	5.1%
More than 150% of allocation 7	3.2%

How Would Data be Used?

To build a "Water Efficiency
 Calculator" to rank and sort accounts by
 efficiency

- To direct conservation funds for the most cost-effective use
- To build a "water budget rate modeling tool"
- To populate retail agency
 billing systems to support
 water budget based rate structures

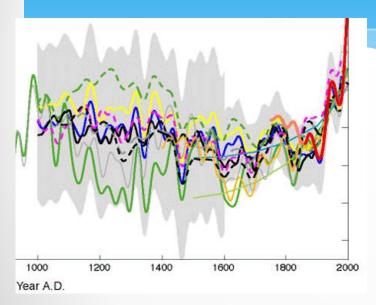


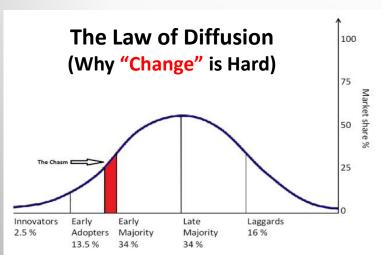


The Cost of Not Changing?

Economic, Environmental & Political











Recommendations:

- Expand Board support for allocationbased rates building on the "Alternative compliance" mechanism as described in the July Emergency Regulations."
- Require agencies to report the % of users who meet State water efficiency standards.

 Conduct State-wide training on the technologies necessary to measure water-use efficiency.

- Be clear about State efficiency standards; Help us build the tools that incentivize market-based, fiscally responsible water rate structures that incorporate State efficiency standards.
- ✓ GPCD comparisons have limitations; reporting % of accounts meeting efficiency standards is equitable across agencies and helps to target water waste.
- Consider how to make the technology and/or data available to agencies across the State.

Questions?



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