WATER RATE STUDY

Workshop Presentation

NIPOMO COMMUNITY SERVICES DISTRICT



Clayton Tuckfield, P.E.

Principal, Tuckfield & Associates

Presentation



May 2014

Topics

- Current Water Rate Schedule
- Water Shortage Rates
 - Voluntary/Price-Induced Reductions
- Supplemental Water Charges
 - Elements/Issues
- Next Steps/Timeline



Current Tiers and Increases Remain

- Current water rates remains in place
 - Single-Family Residential Bi-monthly Volume Rates

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» Tier 1: 0-24 Ccf.....$1.97 per Ccf
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- » Tier 2: 25-40 Ccf.....\$2.46 per Ccf
- » Tier 3: 40-100 Ccf.....\$3.45 per Ccf
- » Tier 4: Over 100 Ccf......\$5.91 per Ccf
- » (Ccf is one hundred cubic feet or 748 gallons)
- Approved rate changes remain in place



• Nov 1, 2014: 9.5% increase goes into effect

Nov 1, 2015: 9.5% increase goes into effect

Overview of Water Shortage Rates

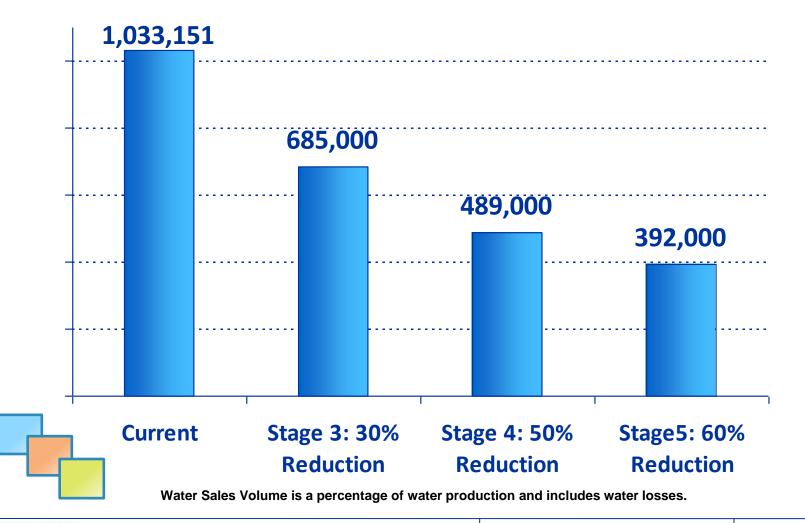


Key Elements of Water Shortage Response and Management Plan

Stage	Trigger	Response
		On-going Conservation
I	All Times	Education
	Potentially Severe Water Shortage	More Intensive
П	Begins	Education
		30% Reduction in
Ш	Severe Water Shortage Declared	Production
	Severe Water Shortage More Than 1	
	Year or is Triggered by Both Key Wells	50% Reduction in
IV	Index and Coastal Criterion	Production
	Severe Water Shortage More Than 2	
	Years with Both Key Wells Index and	60% Reduction in
V	Coastal Criterion Triggered	Production



Water Sales Volume Targets in Ccf





May 2014

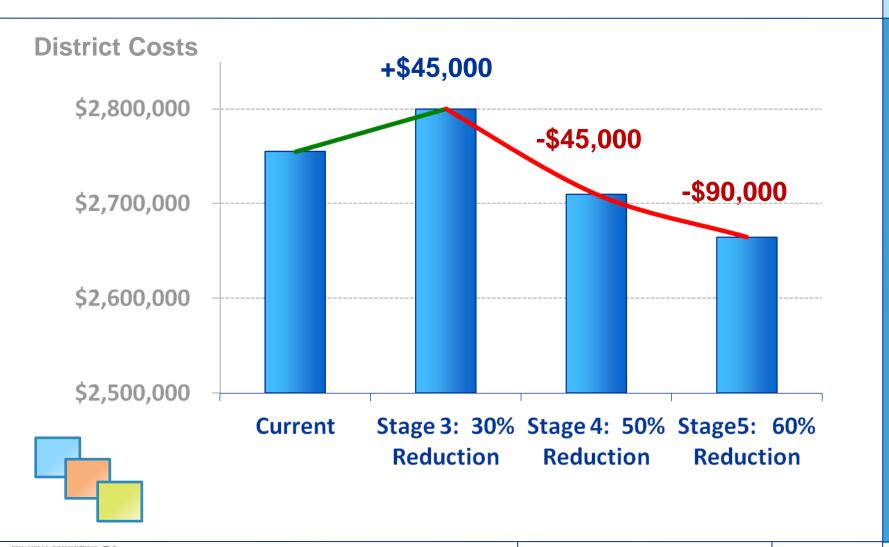
Costs Change With Stages

	Stage 3	Stage 4	Stage 5	
Description	30% Reduc	50% Reduc	60% Reduc	
Additional Stage Expense				
Pumping Expense Decreases	(\$160,000)	(\$250,000)	(\$300,000)	
Administration Expense Increases	\$50,000	\$50,000	\$50,000	
Operations Expense Increase	\$50,000	\$50,000	\$50,000	
Legal Expense Increase	\$75,000	\$75,000	\$75,000	
Outreach Expense Increase	\$30,000	\$30,000	\$35,000	
Total Change in Expense	\$45,000	(\$45,000)	(\$90,000)	



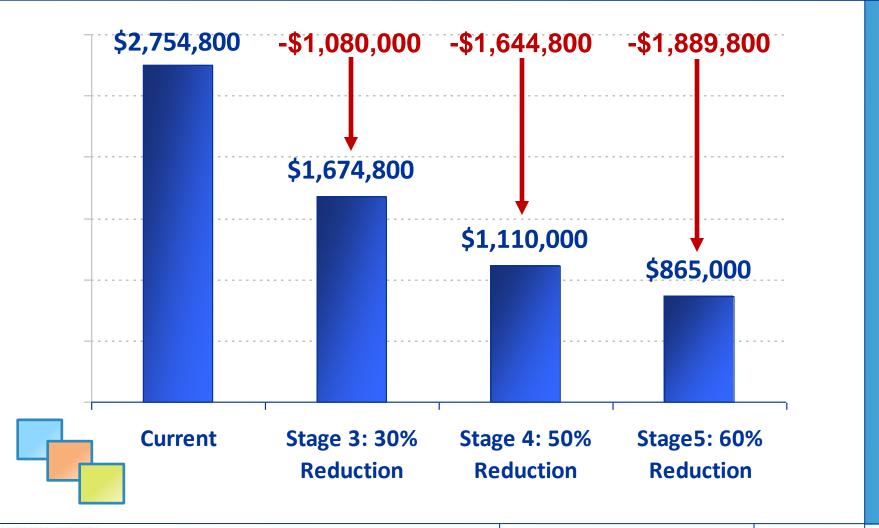


Costs Change With Stages





Revenue Falls as Conservation Increases





Consumption Will DecreaseWith Rising Rates

 Price elasticity tells you the percentage change in demand for a 1 percent change in price

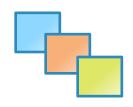
Elasticity of **-.1** means that a.....

1% increase in price leads to a

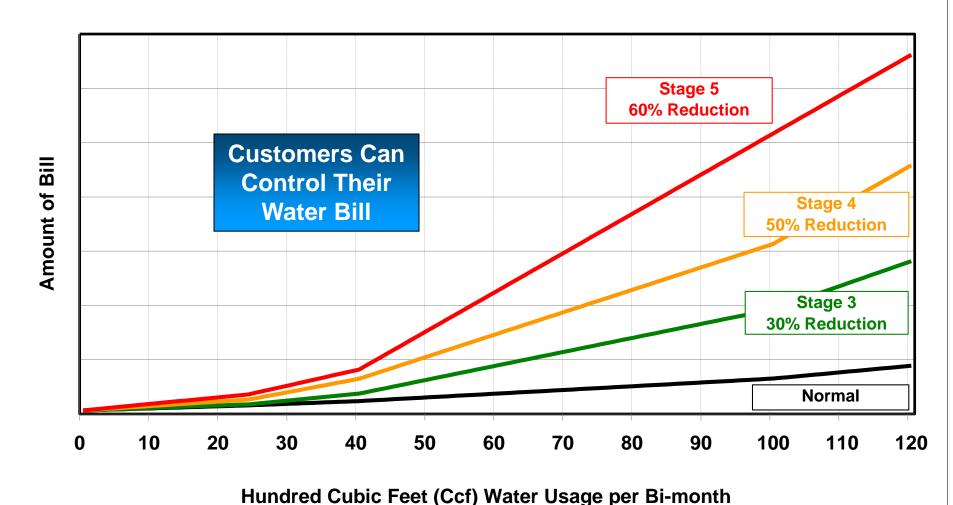
.1% decrease in consumption

Rates Designed to Encourage Conservation and Balance Revenue

- Approach to Water Shortage Rates is to....
 - Use elasticity factors to raise rates enough to decrease
 water use to amounts needed
 - Collect enough revenue to cover falling revenue as conservation increases



Conceptual Single-Family Residential Bi-monthly Bill with Stage Reductions

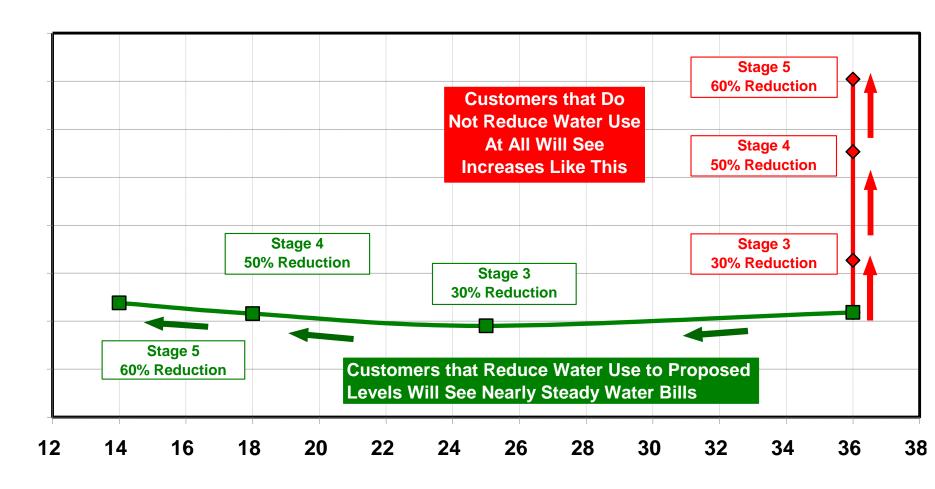




Amount of Bill

Impacts to Single-Family Residential Bi-monthly Bills

No Reduction versus Assumed Customer Stage Reductions



Hundred Cubic Feet (Ccf) Water Usage per Bi-month

Water Rate Study



Water Shortage Rates with November 1, 2014 Increase

- Water shortage rates increase at same 9.5%
 - Financial plan assumed a 1 percent reduction with this increase
 - Use District operating and rate stabilization reserves as necessary for any shortfall



DWR Urban Drought Guidebook

"It is standard practice for water suppliers to maintain a dry-year contingency reserve fund to protect revenue through <u>two or more years</u> of supply reductions below normal demand levels."

(excerpt from 2008 DWR Urban Drought Guidebook, page 55)

- Stage 3 reduction of 752 AF results in lost revenue of about \$1.08M.
- A two-year drought reserve for Stage 3 would equal \$2.2M.





Elements/Issues of Supplemental Water Charges



Background

- Groundwater basin levels are dropping
 - Pumping twice the dependable yield
 - May invite seawater intrusion
- Basin has been Adjudicated
 - Stipulation Agreement: Rights to groundwater allocated to users
 - NMMA Physical Solution: supplemental water and % rights
 - Technical group appointed to manage basin
- Supplemental Water Project is currently underway
 - Bringing in supplemental water as a long-term water supply source
 - Project constructed in 3 phases
 - Phase 1 650 AFY initially
- Need to create New Supplemental Water Charges
 - Charges to recover all costs associated with new water supply



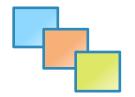
New Supplemental Water Operating Fund

- Captures all revenue and obligations related to Supplemental Water
 - Revenues from charges to Purveyors and District customers
 - Supplemental Water cost from Santa Maria
 - Annual Project replacement
 - Portion of 2013 and 2013A COPs debt service
- Ensure all users pay their share of Supplemental Water Project
 - Purveyor's pay their Court mandated share
 - District customers pay their Court mandated share



Challenges of Pricing Supplemental Water

- Annual budget will assume a % mix of well water and supplemental water to determine annual costs
 - Then water rates are established to recover those annual costs
- But the mix is a moving target:
 - Depends on the Project Phase that is completed and the groundwater available for pumping
 - 3 phases of Supplemental Water Project
 - » Phase 1 650 AFY Phase 2 – 1,600 AFY Phase 3 – 3,000 AFY
 - Water Shortage condition
 - Normal Conditions30%, 50% or 60% reduction in basin pumping



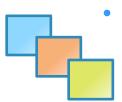
Supplemental Water Costs Bring Benefits

- Drought Rates. During Stage 3 Drought and above:
 - Customers who cut consumption by the appropriate amount would pay about same bill for less water
 - Customers who use more water would pay substantially more than they do now
- Supplemental Water Rate. When supplemental water arrives:
 - Customers will pay more, but enjoy the benefit of new water by not having to cut back water use, or cut back less



Rate Making Challenges

- Revenue Stability
 - Ensure we are able to pay for new Supplemental Water
 - Maintain adequate reserves and a sound financial condition
- Community Acceptance
 - Fairness among customer classes
 - Consider impacts to customer bills
 - Simplicity of rates
- Lots of Variables
 - Take-or-Pay Supplemental Water
 - Groundwater Basin Condition



We Understand Desire to be Fair

- Balance fairness with need for certainty
 - Items to be resolved:
 - Supplemental Water Delivery Volumes
 - Supplemental Water sales contracts with Purveyors
 - Groundwater Basin Health: 2014 Spring Measurements
 - Will a water shortage Stage III be declared?
- Considering fixed versus variable charges
 - Impacts on low and high consumption users are different
 - Fixed charges improve revenue stability
 - May implement initially to ensure Project costs are recovered



What's Next and Timeline for Water Shortage Response Plan

March - May	Public Outreach
May	Learn and Report Basin Status
	Board to discus feedback from workshops and define rate setting schedule
June	Likely 30% Conservation Cutbacks
May-October	Coordinate with Neighbors for Shared Conservation and Supplemental Water Responsibilities



DISCUSSION

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