



Conservation The Big Picture

July 1, 2009

Conservation Workshop

Karen Guz

Director – Conservation

Topics

- Water Resources & Planning
- Financial Impacts of Conservation
- Coping with Drought

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Unique Challenges

- Plenty vs. Drought
 - We have plenty of water in a “normal” year when rain falls.
 - But we lose up to 40% of our permit for our main supply in droughts.
 - Carrying 40% of capacity we will not use in most years is excessively expensive.
- San Antonio is growing rapidly
- All new supply options are expensive and difficult

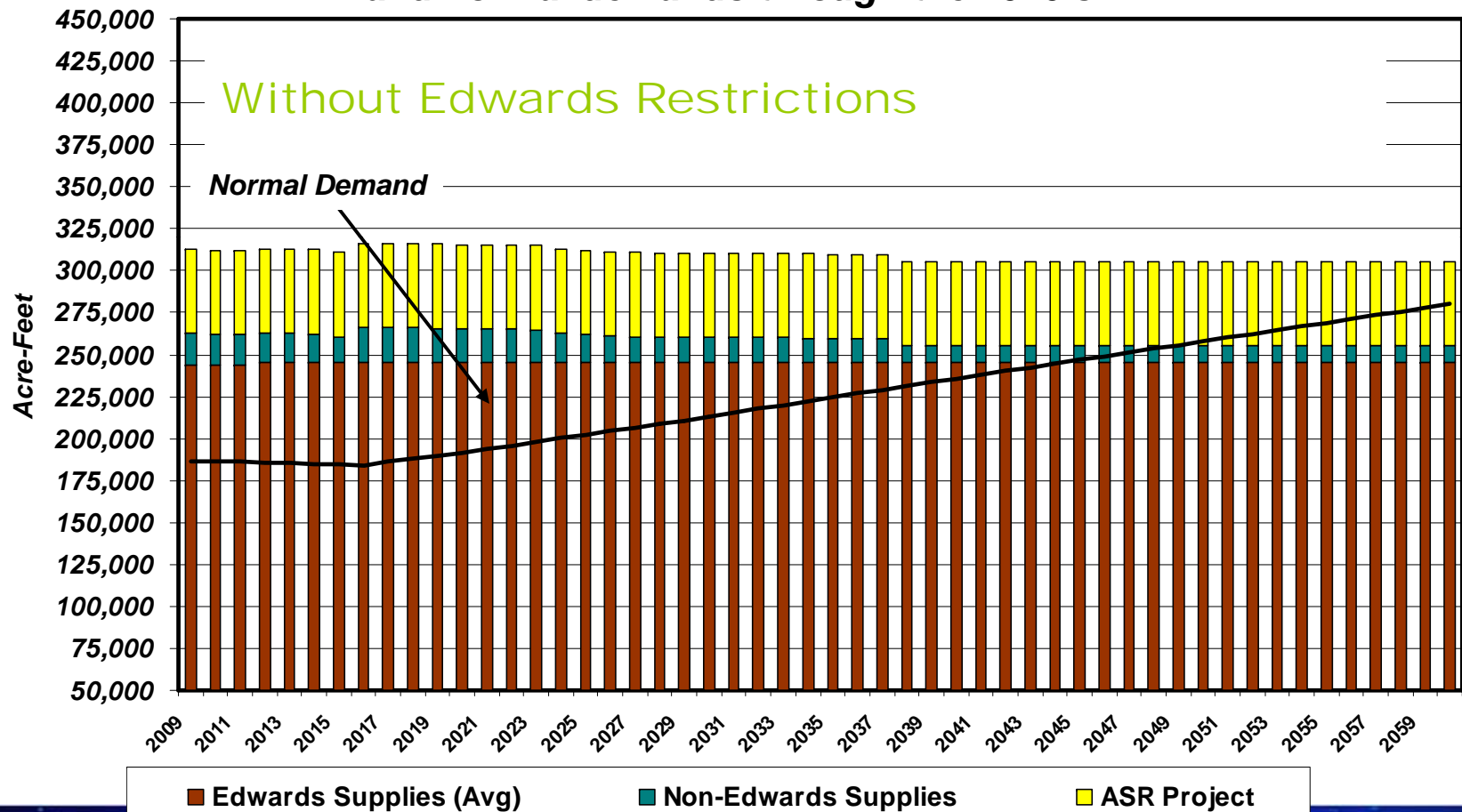
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Supply and Demand (Average Conditions)

Current water supplies in average conditions would meet high and normal demands through the 2040's



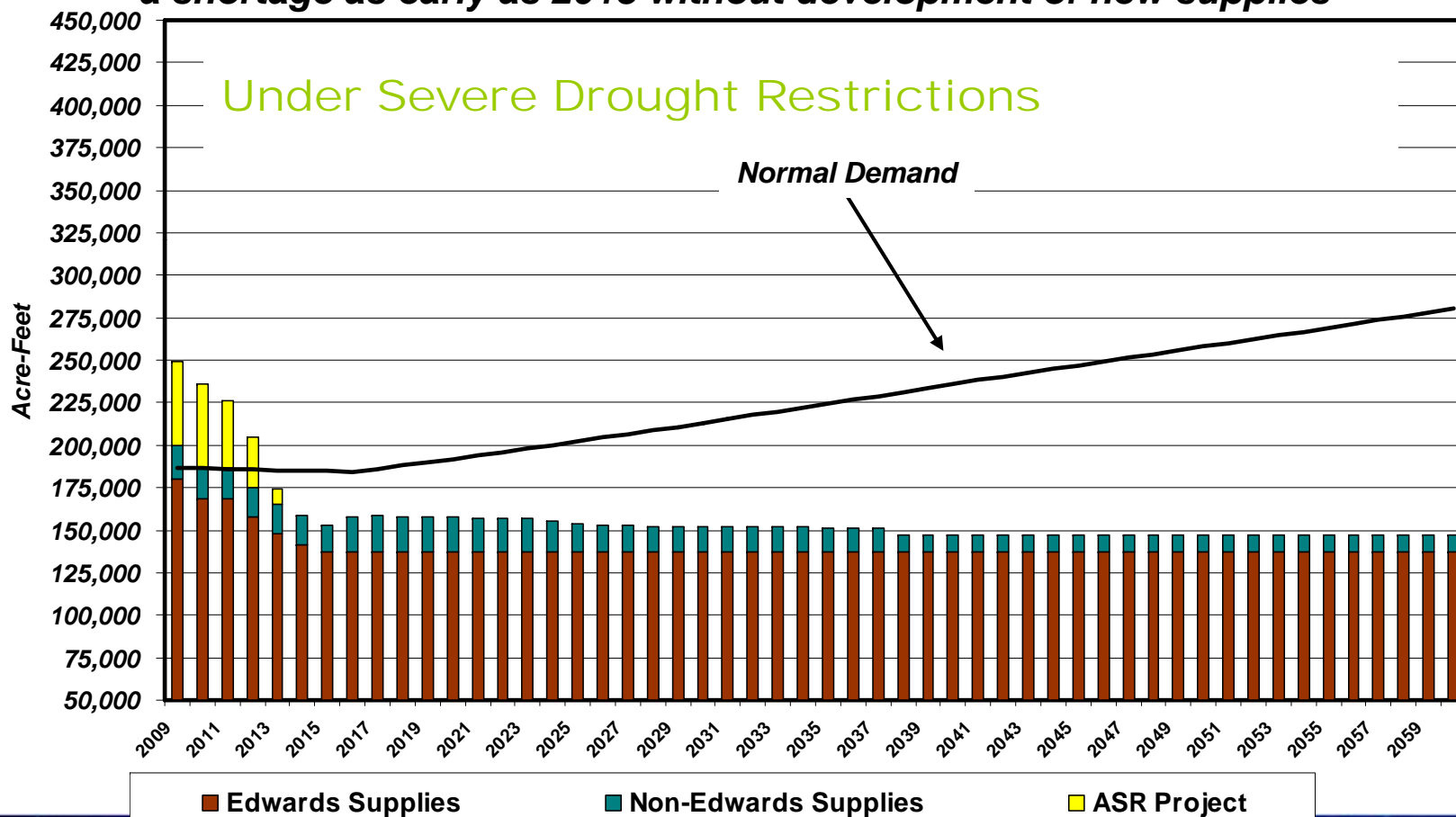
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Supply and Demand (Drought Conditions)

Edwards supplies would be cut by 40% in extreme drought, creating a shortage as early as 2013 without development of new supplies



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50-Year Water Resource Plan Goals

The results of transformation: a clear, sustainable development strategy:



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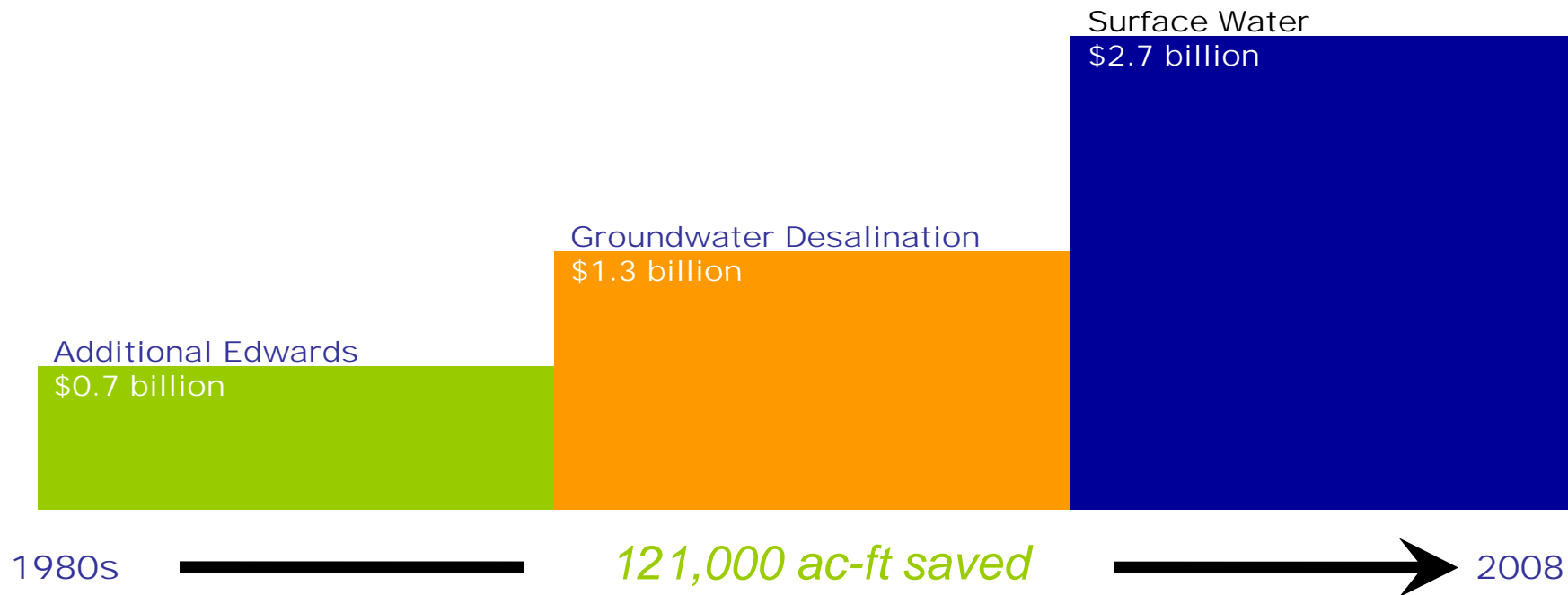


Financial Impacts

- There is no doubt that effective conservation does reduce short-term revenue
- However, short term revenue losses are more than offset by long-term savings
 - Delays in costly projects for water supply
 - Delays in water treatment; sewer & water
 - Fewer infrastructure costs
 - Reduction in peak demand

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Fiscal & Environmental Stewardship



Deferred alternative supplies would have cost
up to \$2.7 billion

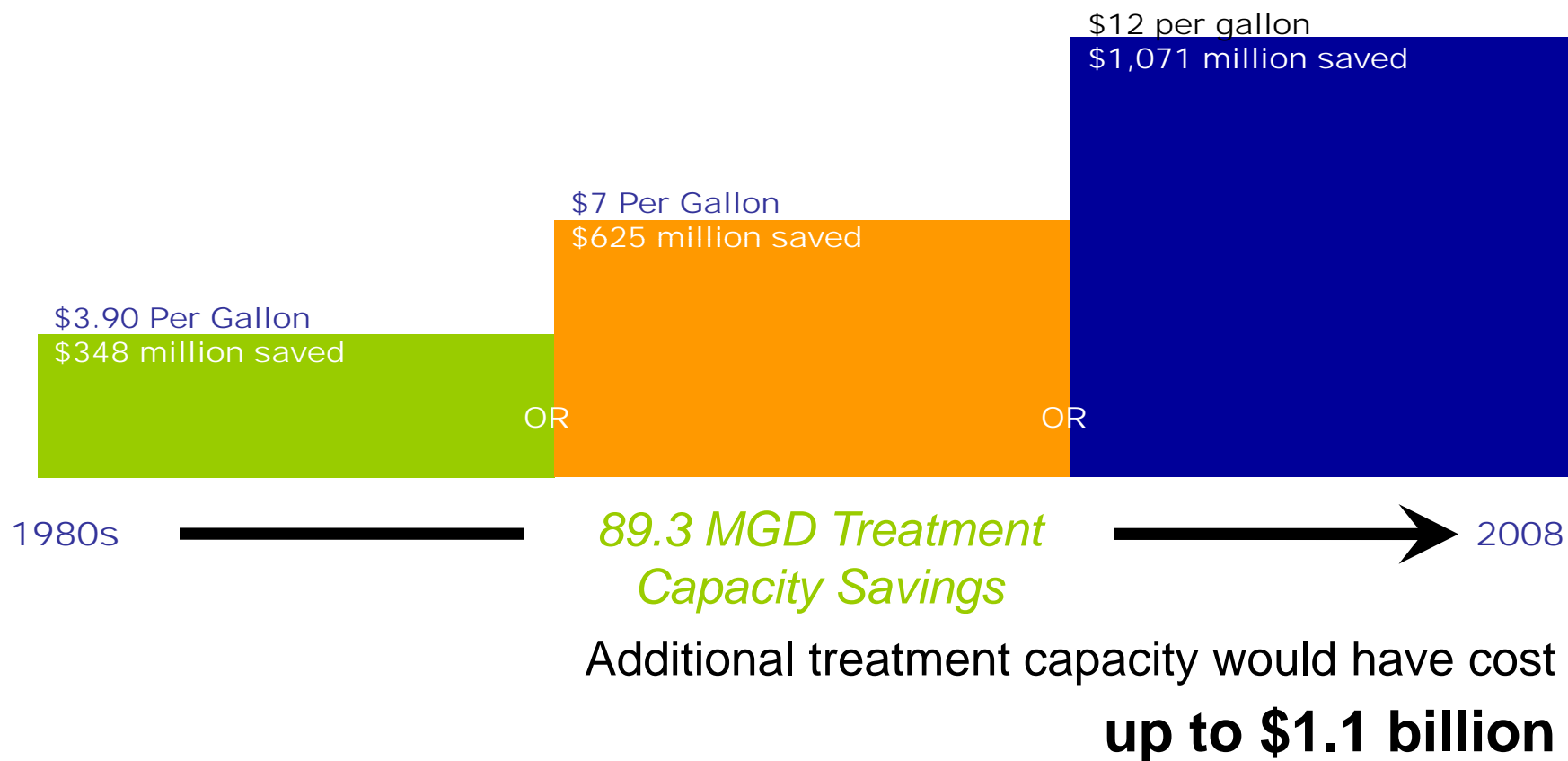
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Water Management - Conservation

Wastewater Treatment Savings



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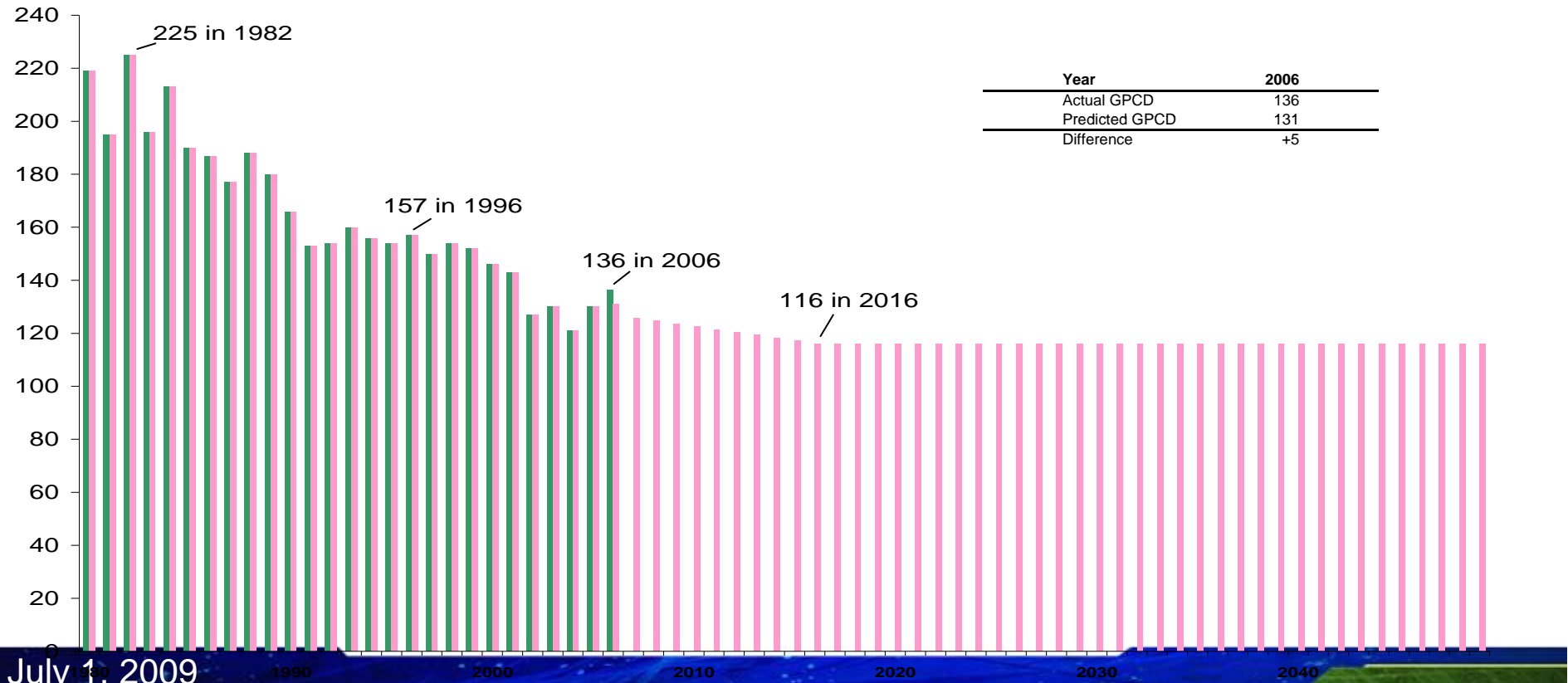
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Since 1980, the system has achieved a 38.6% reduction in per capita consumption through an aggressive water recycling program, indoor and outdoor conservation, and sustained community involvement.

Normal Year Gallons Per Capita Per Day
(1980 - 2049)



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Drought Savings

- Reducing summer peak can save for most utilities
- Customers accept summer restrictions more readily with year-round effective conservation programs in place
- Drought restrictions plus proactive other efforts CAN work to substantially lower GPCD and peak demand

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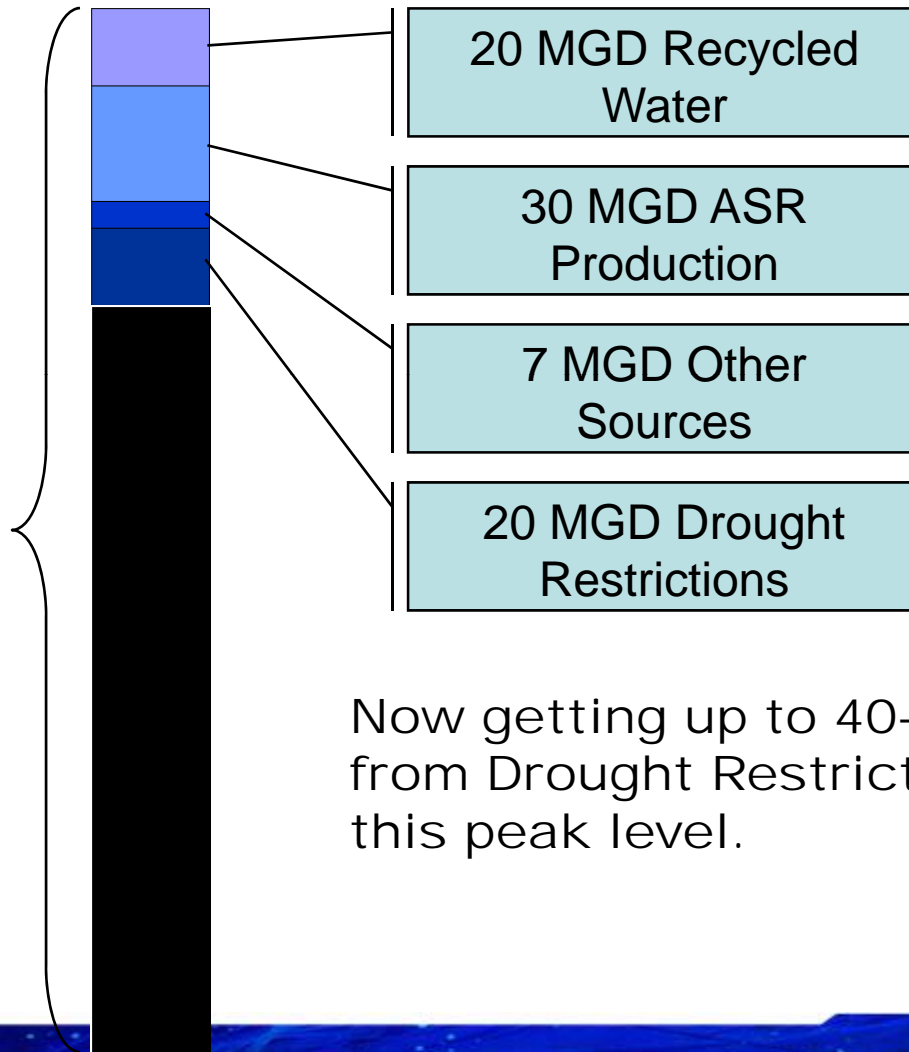
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SAWS Peak Demand Management (Outdated)

270 Million Gallon Daily Summer Demand

•29% Reduction from Edwards



Now getting up to 40-50 mgd from Drought Restrictions from this peak level.

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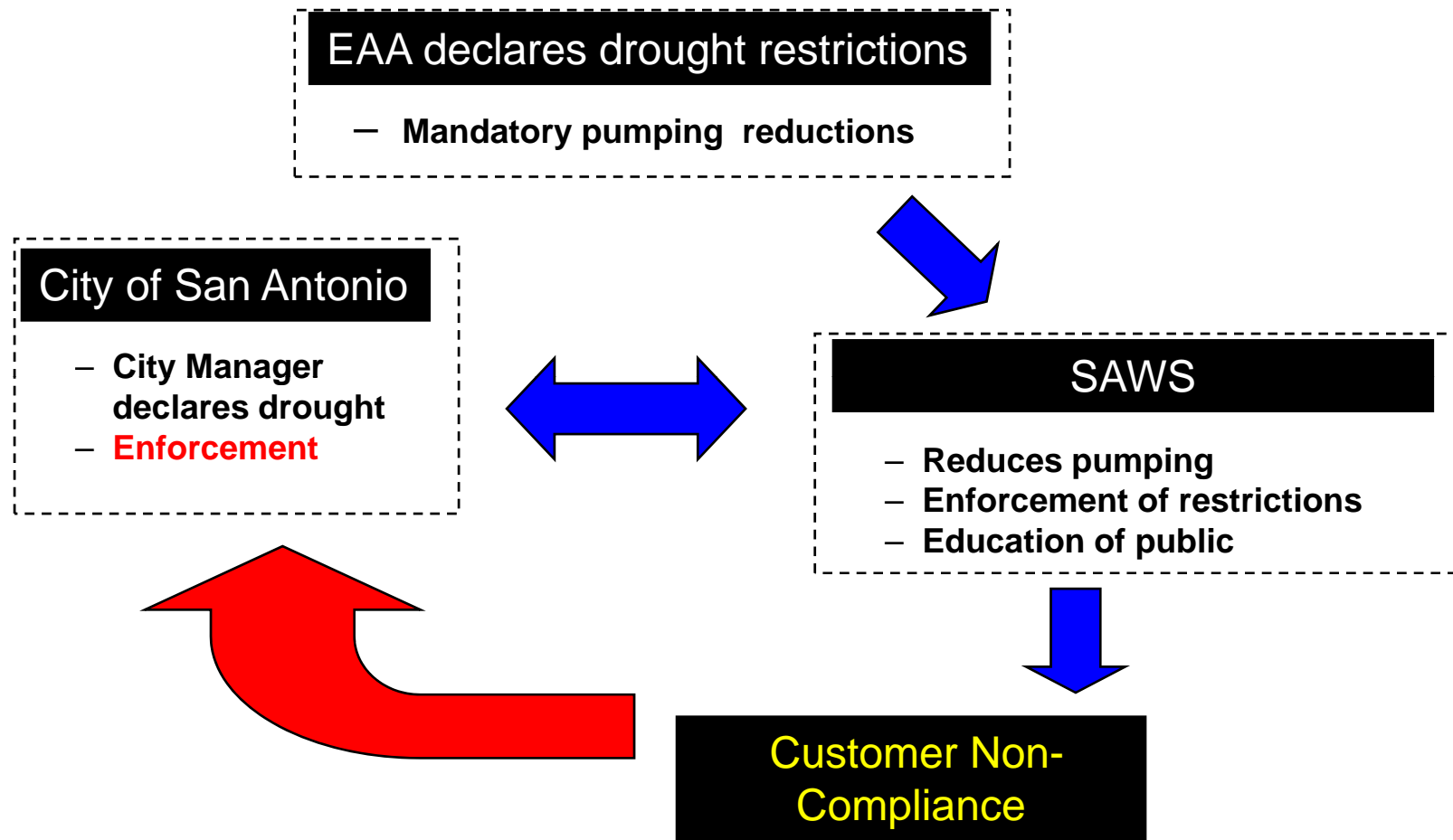
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Drought Restrictions

Edwards Stage	Edwards Supply	City Restrictions
660 ft msl Stage I	Loss of 20%	Water 1X/Week
650 ft msl Stage II	Loss of 30%	Water 1X/Week Reduced Hours
640 ft msl Stage III	Loss of 35%	Water 1X Every OTHER Wk Reduced Hours
630 ft msl Stage IV	Loss of 40%	All Above Plus Surcharge Excess Usage

Other rules apply for car washing, power washing, pools, decorative fountains, and hotel linen programs

Relationships During Drought



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Helping Customers Cope

- Summary drought flyers
- New media for each stage
- Working with media outlets on story
- Stakeholder groups
- Additional staff
- Home audits
- Council offices
- Master Gardeners

**BE A TOTAL
TURN-OFF
THIS WEEK.**

No watering this week.

A historic lack of rain has resulted in the aquifer dropping to below 640 feet, triggering Stage 3 watering restrictions. What does this mean to you? The main thing to remember is **now you can only water once every other week. And this is an OFF week – no watering with hose-end sprinklers, in-ground irrigation systems or soaker hoses.**

During ON weeks, you can only water one day a week, determined by the last number of your address. And only from 3 a.m. to 8 a.m. and 8 p.m. to 10 p.m.

Pour over all the Stage 3 facts at saws.org or call us at 704-SAWS.

Get the message? Save water.



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Customer Response

- Most customers are following the rules
- People are reporting over 200 water waste incidents daily and expect follow-up
- Over 3,000 warnings have been given
- Over 500 citations in process

The screenshot shows a web interface for creating a new water waster ticket. The page title is "water wasters" and the breadcrumb trail is "MY PAGE > DEETS > TICKET SYSTEM > CREATE NEW TICKET". The form includes the following fields and options:

- Assign To Group:** A dropdown menu with the option "Please Select a Group".
- Reported Location:** A text input field.
- Call Source:** A dropdown menu with the option "Please Select a Source".
- Problem Type:** A list of available types: "No Violation Found", "General Water Waste - Section 34-287 City Code", "Wrong Time - Landscape watering violation - Section 34-301 City Code", "Wrong Day - Landscape watering violation - Critical period - 34-326 City Code", and "Restricted Use - Critical Period - 34-332 City Code".
- Your Choice:** A text input field with a "Remove" button below it.
- Reported By First Name:** A text input field.
- Reported By Last Name:** A text input field.
- Reported by Phone:** A text input field.
- Reported by Email:** A text input field.
- Priority:** A dropdown menu with the option "Please Select a Priority".
- Status:** A dropdown menu with the option "Please Select a Status".
- Account First Name:** A text input field.
- Account Last Name:** A text input field.
- SANIS Account Number:** A text input field.
- Account Birthdate (MM/DD/YYYY):** A text input field.
- Confirmed Address Number:** A text input field.
- Confirmed Address Street:** A text input field.
- Warning Number:** A text input field.
- Citation Number:** A text input field.
- Council District:** A dropdown menu with the option "Please Select a District".
- Description:** A large text area.
- Resolution:** A text area.
- Notes:** A text area.

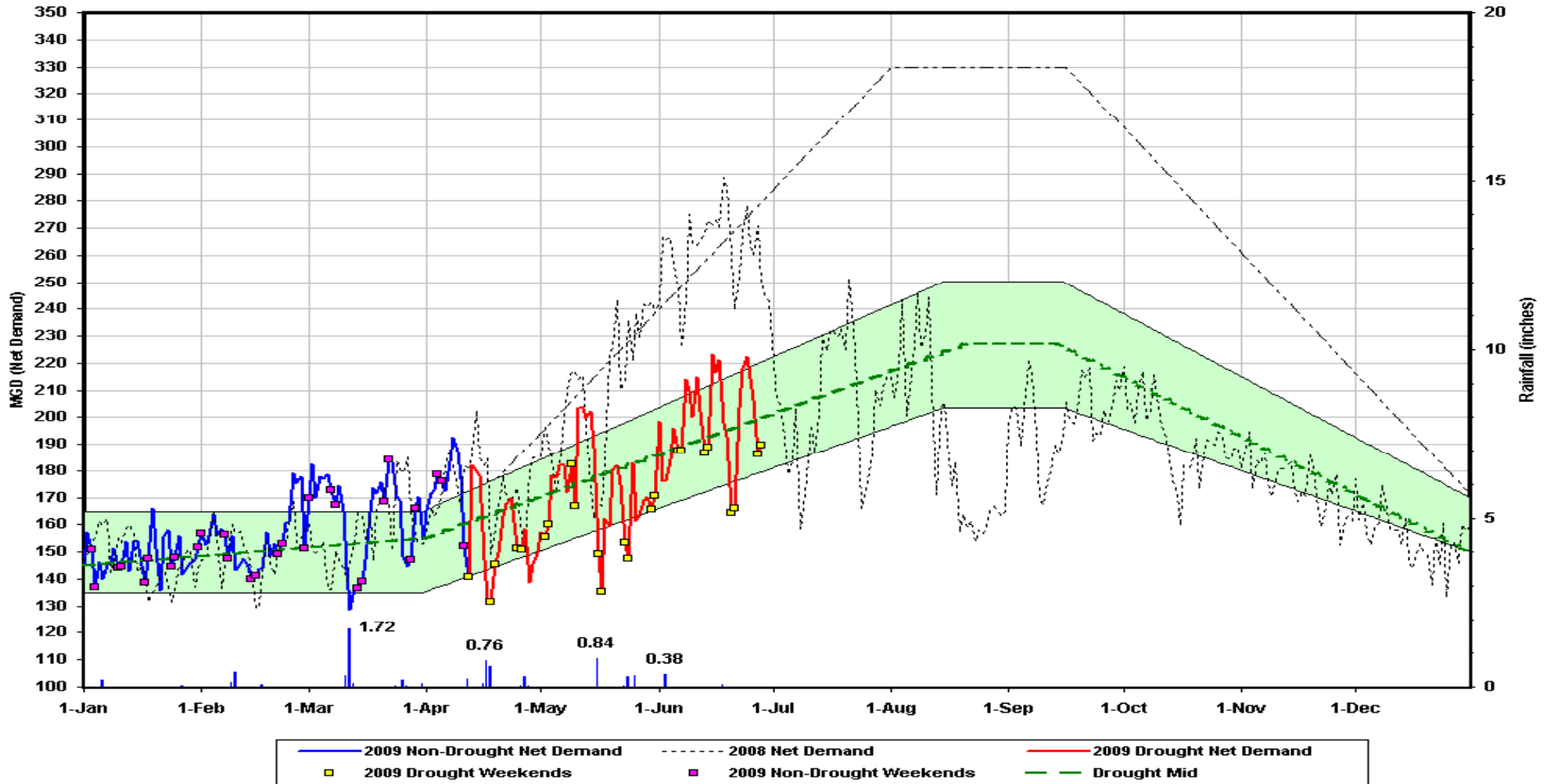
At the bottom of the form, there is a "Submit Ticket" button. Below the form, there is a search bar for "Search Water Waster" and a "Search" button, along with a link for "Advanced Search".

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Success Reducing Demand

Drought Savings Assessment Tool
Net Demand



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