

# Memorandum



DATE August 20, 2010  
TO Honorable Mayor and Members of the City Council  
SUBJECT Water Utilities: Overview of Proposed FY11 Budget

Attached is the Water Utilities Department FY10-11 Proposed Budget Briefing to be presented by the Water Utilities Department at the August 23, 2010 meeting of the Dallas City Council.



Ryan S. Evans  
First Assistant City Manager

## Attachment

c: Mary K. Suhm, City Manager  
Thomas P. Perkins, City Attorney  
Deborah Watkins, City Secretary  
Craig Kinton, City Auditor  
Jill A. Jordan, P.E., Assistant City Manager  
Forest E. Turner, Assistant City Manager  
A.C. Gonzalez, Assistant City Manager  
Jeanne Chipperfield, Director of Budget & Management Services  
Judge C. Victor Lander, Administrative Judge  
Helena Stevens-Thompson, Assistant to the City Manager  
Jo M. Puckett, P.E., Director, Dallas Water Utilities

# Water Utilities: Overview of Proposed FY11 Budget

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August 23, 2010



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# Purpose

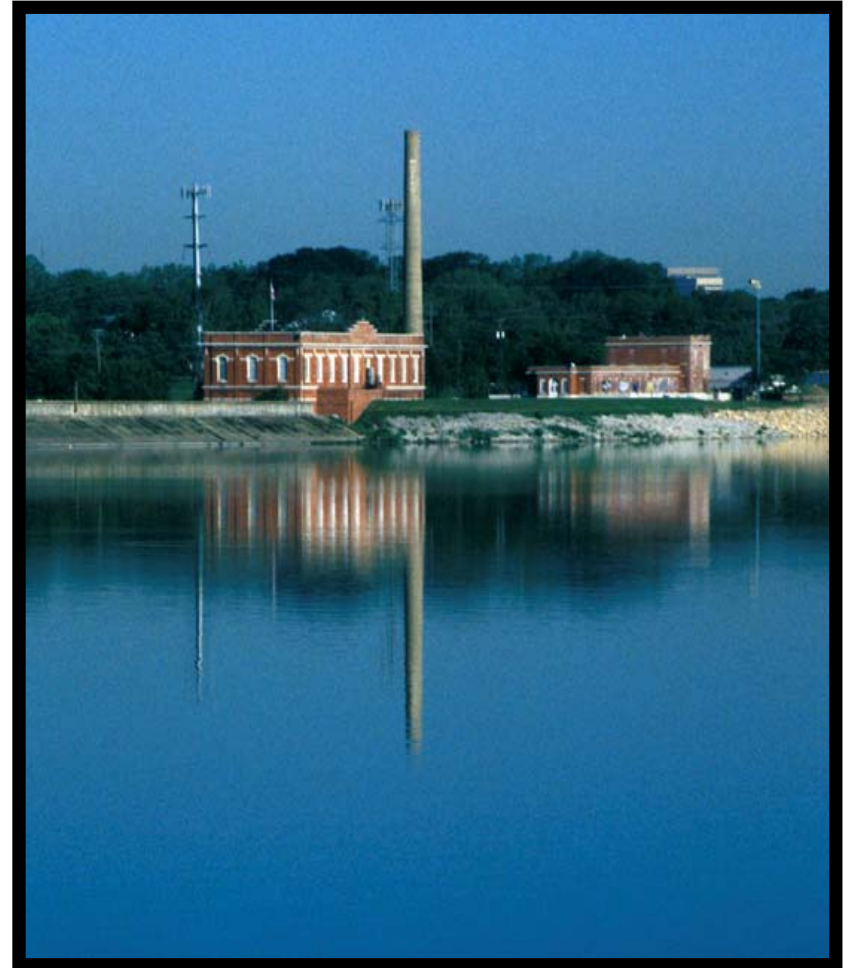
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This briefing provides an overview of Dallas Water Utilities, its water and wastewater operations, and proposed FY 10-11 Budget

# City of Dallas Water Utilities Fact Sheet

The Dallas Water Utilities is funded from water and wastewater revenues, and receives no tax dollars

- Approximately 1,500 employees
- Population served (treated water)
  - 1.3 million - City of Dallas
  - 960,000+ wholesale customer cities
- 699 square mile service area
- 306,000 retail customer accounts
- 5,012 miles of water mains
- 4,250 miles of wastewater mains
- 3 water treatment plants
- 2 wastewater treatment plants
- Wholesale customers
  - 23 treated water, 3 untreated water, 11 wastewater

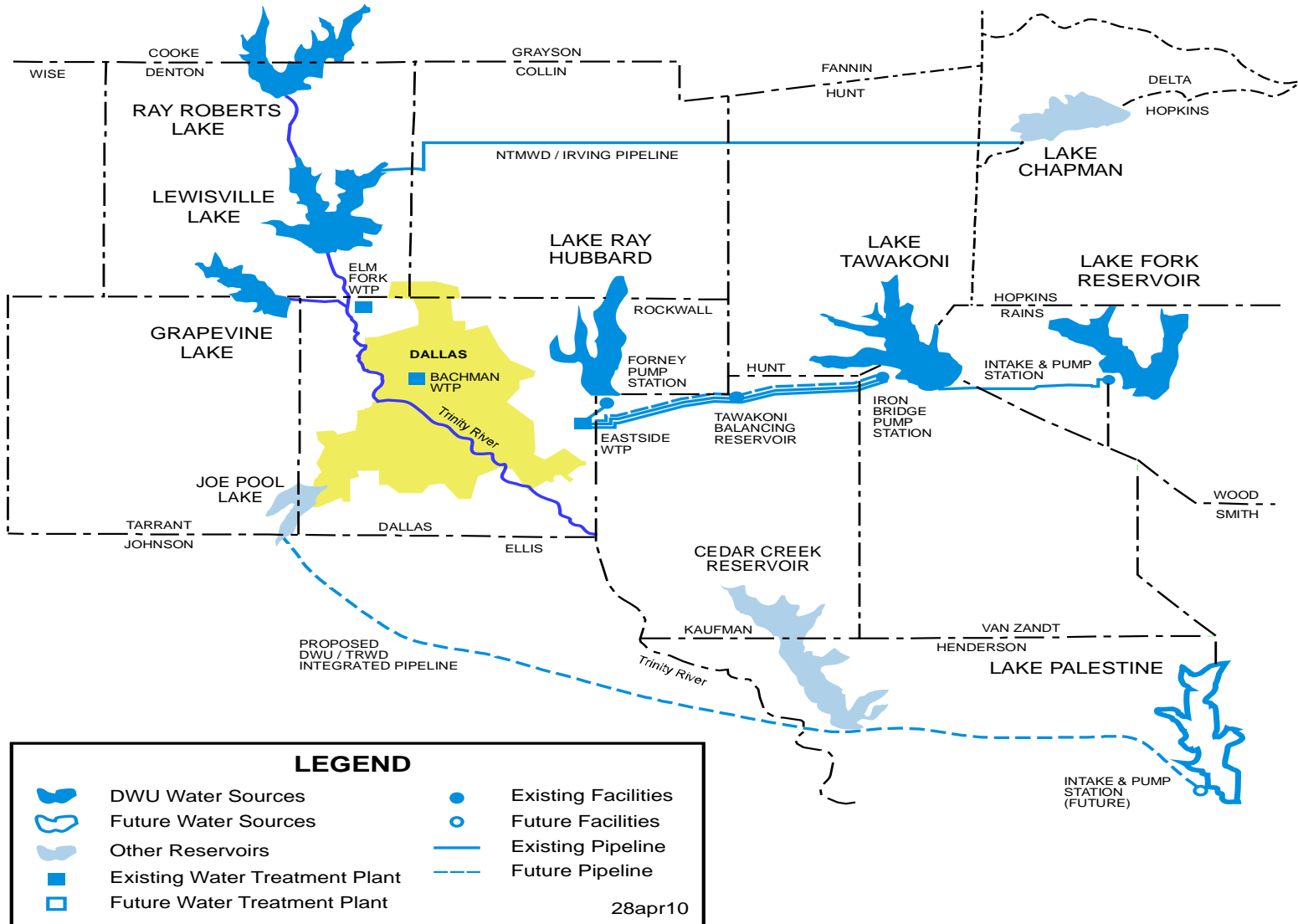


# Where We Are Today

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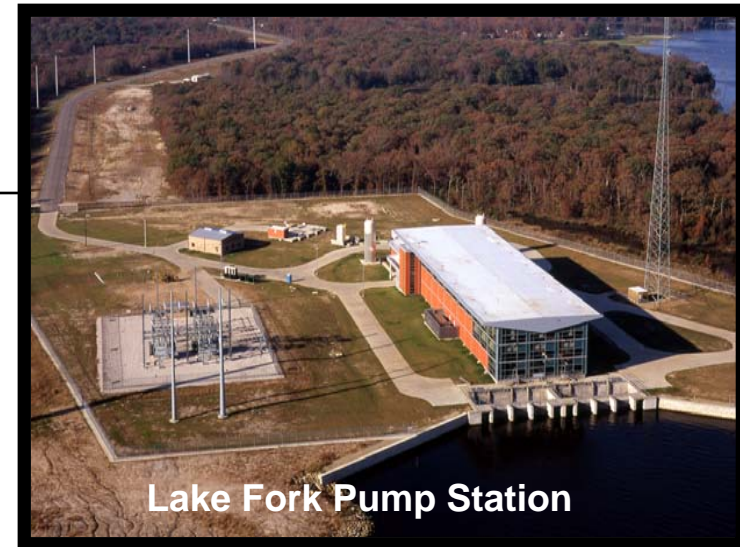
- Surface water is “owned” by the State of Texas, who in turn, grants permits for its beneficial use
- Dallas’ existing water rights were granted by the State based on serving the needs of Dallas and its customer cities
- Both Dallas and customer cities enjoy lower water rates because of a regional approach to water acquisition and supply
  - Dallas has shared costs with customer cities based on a 30-year Memorandum of Agreement (MOA) and has had a successful relationship with its customer cities for more than 50 years
  - With a “consensus based approach” in mind, Dallas and the customer cities met to revise the MOA which expired December 2009
  - City Council approved MOA on May 12, 2010
  - FY10-11 budget includes wholesale rate increase of 1.7%
- Dallas and other area water agencies looking to 2060 for possible water sources
  - Regional approach for new water sources
  - Funding for new water sources is more cost effective when it is a collaborative effort
- Even with conservation and reuse, additional water supply sources for Dallas will be needed by 2035

# DALLAS WATER SERVICE AREA



# Utility Overview

- Capital intensive operation with assets of over \$4.5B including:
  - Water Supply - \$0.5B
  - Treatment Plants - \$1.5B
  - Water/Wastewater Pipeline - \$2.1B
- Utilize 10 year capital improvement program (CIP) supported by system master planning
- Use Financial Management Performance Criteria (FMPC), including:
  - Dallas Water Utilities funds solely for use of the utility
  - Commercial Paper used for interim financing of capital projects
  - Long-term debt used only for capital infrastructure (30 year debt)
  - Debt service coverage should be at least 1.3 times at all times and 1.5 times at fiscal year-end
- Customer cities rates based on 2010 agreement and contractual agreement
- Strict adherence to TCEQ/EPA regulations



# Dallas Water Utilities: FY10-11 Budget Focus

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- Dallas Water Utilities is a large, municipally owned regional water/wastewater supplier
  - Costs are driven by infrastructure requirements for both growth and renewal
  - Responsibility for planning to meet water requirements for service area
  - Self-supporting
- Proposed budget continues the focus on maintaining infrastructure and conserving resources through:
  - Programs for water and wastewater systems maintenance to pro-actively detect water system leaks
  - Water conservation efforts
  - Annual replacement rate of 1.5% for aged water and wastewater mains
  - Commitment to provide high quality and sufficient water and wastewater service to meet customer needs

# Sustainability Actions

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- Dallas built its water system to meet the drought of record
  - The drought of record is the worst recorded drought used for planning municipal water supplies
  - Dallas' drought of record was a seven year period in the 1950's
- To minimize water usage, Dallas has undertaken several sustainability actions
  - Leak detection
  - Maintenance and repair
  - Conservation and reuse
- Actions are to sustain what we have, and add new sources to meet future growth

# Sustainability Initiatives

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## □ **Major Maintenance Initiatives**

- Reduce water loss by expanding leak detection to survey system every 2.5 years instead of 5 years
- Unaccounted For Water for FY09 was 9.1% (industry goal is 10%)
- Increased large wastewater main assessment and replacement in support of Sanitary Sewer Initiative
- FY10 budget maintains annual replacement rate of 1.5% for aged mains

## □ **Focus on Infrastructure Rehabilitation and Maintenance**

- For the prior three years, approximately \$465M or 50% of the Capital Program addresses maintenance of existing infrastructure
- For FY11, \$127.0M of \$346.3M of the capital program is budgeted for water/ wastewater main replacements

## □ **Dividends from enhanced conservation initiatives**

- 34 MGD savings in water from 2001-2009
- Equates to 70% of the 47.40 goal for 2060
- Council adopted updated 5-year water conservation strategic plan in June 2010

## □ **Reuse Initiatives** – 88 MGD identified in current efforts

- Indirect – working with North Texas Municipal Water District to swap reuse water
  - 40 MGD to Lake Ray Hubbard
  - 36 MGD to Lake Lewisville
- Return Flows – 12 MGD to Lake Lewisville
- Direct – Cedar Crest golf course (less than 1 MGD) and planned for Stevens Park

# 2011 Budget Provides the Following Services

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- 160.1BG of water treated and delivered
- 74.0BG of wastewater treated
- Capital Improvement Program of \$346.3M
  - Major Projects include:
    - Pipeline Replacement Program (110 miles) - \$127M
    - Central Wastewater Treatment Plant Influent Pump Station - \$58M
    - Walcrest Pump Station and Reservoir Improvements - \$36M
    - Southside Wastewater Treatment Plant Improvements - \$20M
- Continuation of conservation initiatives projected to reduce GPCD from 195 to 192

# Major Components of FY11 Budget

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- Recommended Expenditures of \$531.2M
- Significant expenditure changes:
  - Power and fuel costs – (\$5.5M)
  - Remaining O&M costs – (\$1.7M)
  - Conservation Strategic Plan – \$2.1M
  - Payment in Lieu of Taxes (PILOT) - \$2.0M
  - Costs to fund capital program - \$1.7M
  - Lake Palestine Pipeline - \$3.2M

# Fiscal Year 2010-11 Revenue Requirement

Residential Water/Wastewater	\$175.6M
Commercial Water/Wastewater	\$251.8M
Wholesale Water/Wastewater	\$ 81.7M
Interest Income	\$ 4.6M
Other Operating Revenues	\$ 3.1M
Contributions – Water/Wastewater Permits	<u>\$ 1.2M</u>
TOTAL REVENUES AT CURRENT RATES	(\$517.8M)
Proposed FY11 Expenses	\$531.2M
Additional Retail Revenue Requirement	\$13.5M
Retail Rate Increase is	
$\$13.5M/(\$175.6M+\$251.8M) =$	3.1%

# FY 10-11 Capital Budget Funding

- Proposed Capital Budget (CIP) of \$346.3M
  - Projects to be awarded with cash and CP
- \$175M Revenue Refunding Bond Sale to retire \$175M in outstanding commercial paper
- Meets all FMPC requirements
  - Bond Coverage budgeted at 1.59
  - Equity Funding of 23%



# Retail Rate Impact

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## Proposed Rate Adjustment Impact to Residential Water and Sewer Bills

Customer Usage in Range	Average Bill at Current Rates	Average Bill at Proposed Rates	Proposed Increase	% Increase	Number of Customers Impacted	% of Customers in Range
0 to 4,000 gallons	\$20.76	\$21.35	\$0.58 <sup>a</sup>	2.8%	77,192	31.4%
4,001 to 10,000 gallons	\$47.51	\$48.81	\$1.31 <sup>b</sup>	2.8%	103,468	42.1%
10,001 to 15,000 gallons	\$67.62	\$69.75	\$2.13 <sup>c</sup>	3.1%	28,959	11.8%
Above 15,000 gallons (Includes conservation tier rate)	\$194.32	\$205.80	\$11.49 <sup>d</sup>	5.9%	<u>36,299</u>	<u>14.8%</u>
<b>Total</b>					245,918	100.0%

Data based on January 2009 through December 2009 usage

<sup>a</sup> Average water and sewer use: 2,239 gallons

<sup>b</sup> Average water and sewer use: 6,531 gallons

<sup>c</sup> Average water use 12,310 gallons and sewer use: 6,100 gallons

<sup>d</sup> Average water use 36,456 gallons and sewer use: 6,100 gallons

85% of residential customers will see an average monthly bill increase of \$2.13 or less

# Affordability Guideline

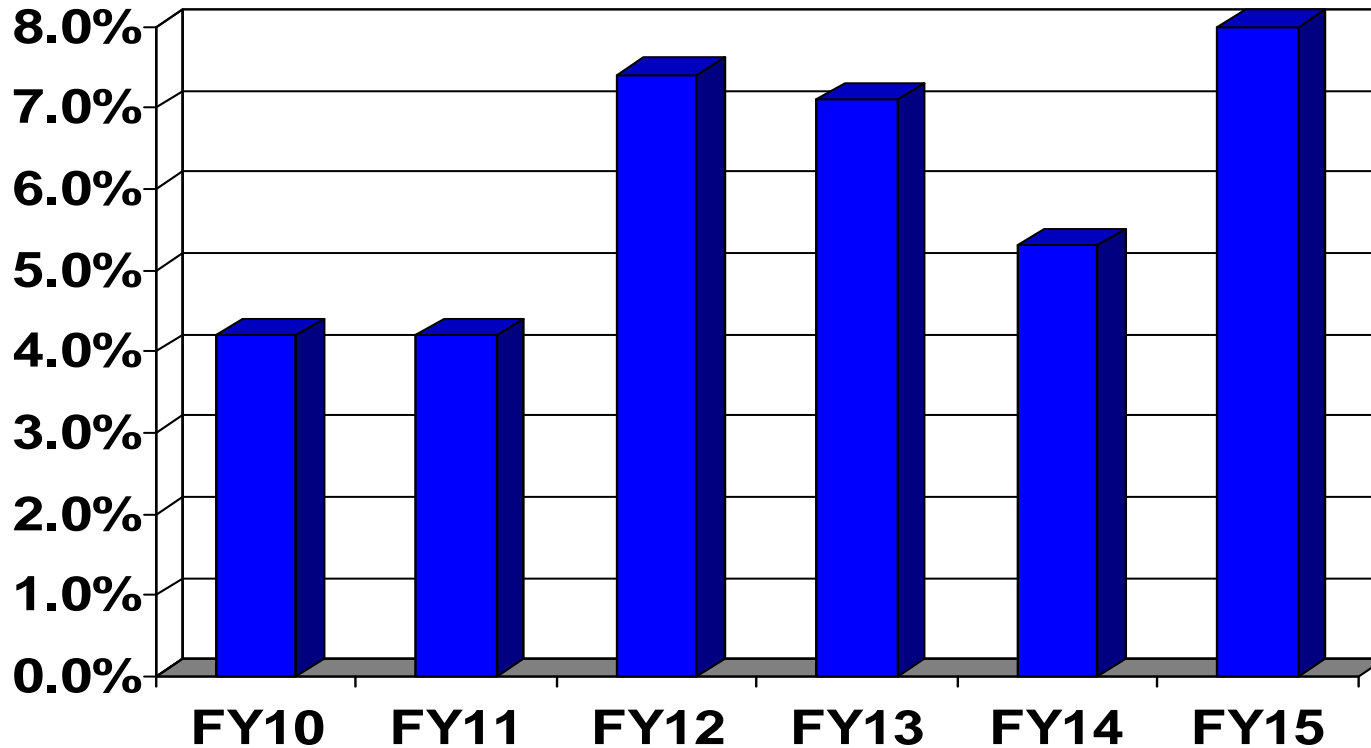
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- US EPA affordability guideline for water and wastewater bills is 2% of median income
  - Dallas' water and wastewater bills would be 1.5% of median income
- Typical monthly residential water and wastewater bill would increase from \$52.82 to \$54.39
  - Based on water use of 8,300 gallons and 6,100 gallons Winter Months Average for sewer

# Future Outlook

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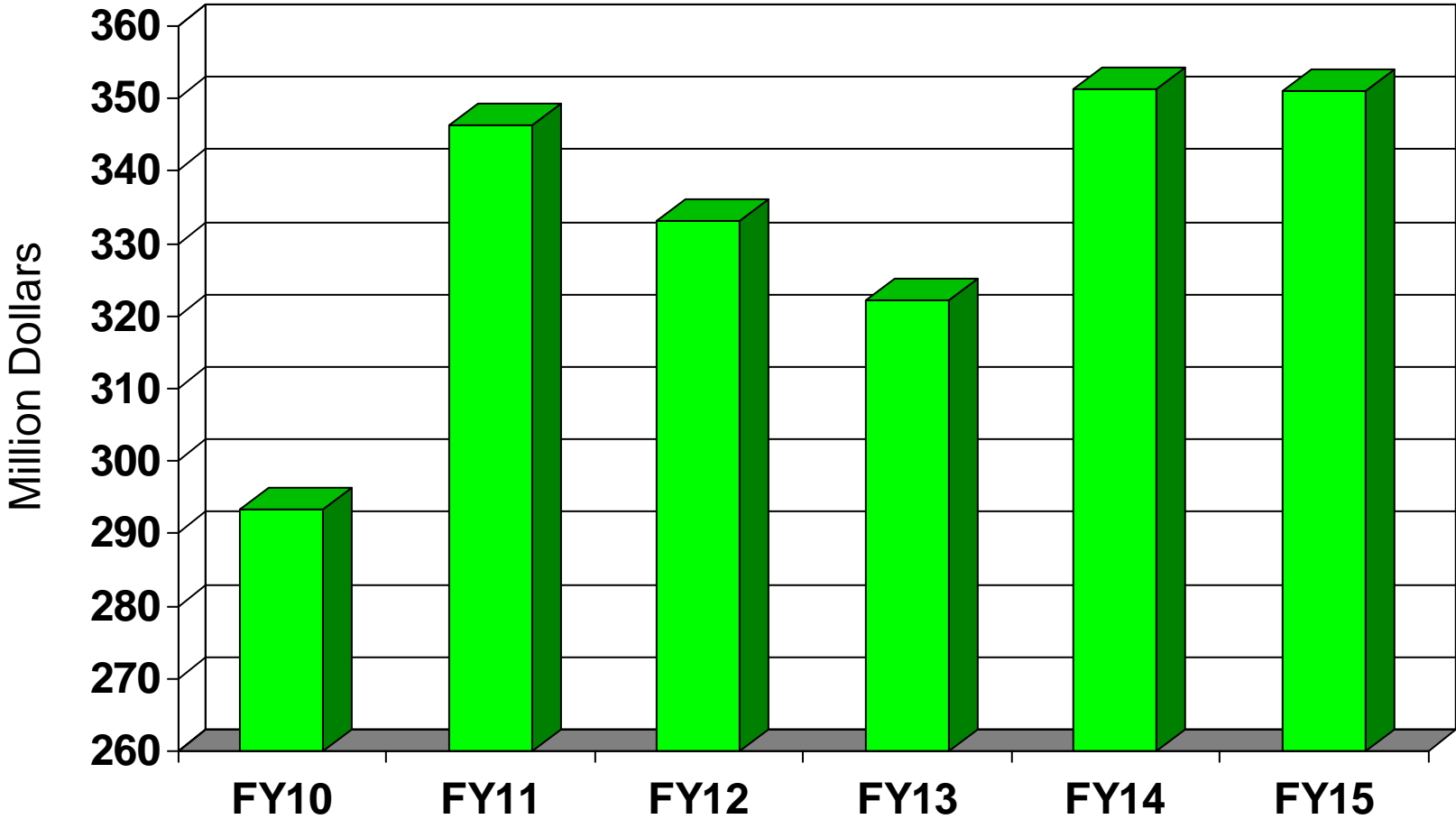
# Future Outlook: Rate Increases



Assumptions include: 1) O&M annual increases of 3%; 2) debt costs cover existing debt payment schedule and amount for bonds to be sold to refinance and refund outstanding commercial paper; and, 3) cash transfers to meet FMPC recommended 20% equity and bond ordinance coverage of 1.50 times max year P&I for year end and maintain 1.30 at any point during the year.

**Note: Includes cost of Integrated Pipeline Project to connect Lake Palestine**

# Future Outlook: Capital Improvement Program



Note: Does not include cost of future water supply acquisitions

# Lake Palestine Project Progress to Date

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- Identified significant **cost savings of almost 20 percent** that can be recognized by the City and Tarrant Regional Water District working together in the transmission of raw water from East Texas
- Long Range Water Plan includes Palestine connected by 2015-2020
  - Pipeline sizing and corridor complete
  - Pipeline design standards developed jointly
  - Conceptual pipeline design began in Spring 2010
- Initial 2007 Interlocal Cooperation Contract has been the framework for preliminary work to this point and defines the on-going relationship between the City and the District
  - Amendment proposed to include Fair Opportunities Purchasing/Contracting Policy
- Implementation of the project requires two additional contracts
  - “Water Transmission Facilities Financing Agreement”
  - “Integrated Water Transmission Facilities Delivery Contract”

# Lake Palestine Project Progress to Date

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- Brief Council in Fall 2010 on the terms and conditions implementation of the Lake Palestine connection
- Current interlocal agreement has been the basis for partnering and work completed up to this date
- Basis for implementation requires contracts for financing agreement and water delivery

# Summary

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- Dallas Water Utilities is a large, municipally owned regional water/wastewater supplier
  - Self-supporting
  - Costs are driven by infrastructure requirements for both growth and renewal
  - Responsibility for planning to meet water requirements for service area
- Recommend Proposed Operating Budget of \$531.2M
  - Capital Improvement Program of \$346.3M
  - Average retail rate increase of 3.1%

# Appendix

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Lake Ray Hubbard Dam

# Services by Key Focus Areas

		FY 10 Budget	FY 10 Estimate	FY 11 Proposed Budget
	<b>Economic Vibrancy</b>			
2.84	Water Capital Funding	\$ 256,715,446	\$ 201,417,934	\$ 252,754,883
2.85	Water Production & Delivery	\$ 102,721,891	\$ 98,610,046	\$ 100,404,142
2.86	Water Utilities Capital Program Management	\$ 12,415,226	\$ 12,801,405	\$ 13,213,687
	<b>Clean Healthy Environment</b>			
3.64	Wastewater Collection	\$ 16,035,506	\$ 17,103,760	\$ 16,477,259
3.65	Wastewater Treatment	\$ 46,970,575	\$ 44,475,720	\$ 48,411,040
3.68	Water Conservation	\$ 4,602,244	\$ 4,521,835	\$ 5,391,708
	<b>E3 Government</b>			
6.16	CIS Support for Water	\$ 10,645,463	\$ 10,647,228	\$ 10,520,652
6.82	Water Planning, Financial and Rate Services	\$ 2,968,114	\$ 2,595,233	\$ 3,244,995
6.83	Water Utilities Customer Account Services	\$ 19,912,371	\$ 20,333,861	\$ 21,471,647
6.84	Water's Price of Doing Business	\$ 57,378,646	\$ 54,392,778	\$ 59,350,282
	<b>Totals</b>	\$ 530,365,482	\$ 466,899,800	\$ 531,240,295

**Note: Estimate as of June FTA**

# Retail Rates

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## Dallas Water Utilities Monthly Payment Rates

<b>Customer Charge</b>	<b>Current Water</b>	<b>Proposed Water</b>	<b>Current Sewer</b>	<b>Proposed Sewer</b>	<b>Combined</b>	<b>Proposed Combined</b>
5/8 Inch Meter	\$4.00	<b>\$4.18</b>	3.77	<b>3.95</b>	\$7.77	<b>\$8.13</b>
3/4 Inch Meter	5.25	<b>5.45</b>	4.78	<b>4.94</b>	\$10.03	<b>\$10.39</b>
1 Inch Meter	7.63	<b>7.90</b>	6.93	<b>7.16</b>	\$14.56	<b>\$15.06</b>
1 1/2 Inch Meter	14.37	<b>14.88</b>	13.07	<b>13.51</b>	\$27.44	<b>\$28.39</b>
2 Inch Meter	22.44	<b>23.21</b>	20.41	<b>21.09</b>	\$42.85	<b>\$44.30</b>
3 Inch Meter	53.87	<b>55.68</b>	48.97	<b>50.61</b>	\$102.84	<b>\$106.29</b>
4 Inch Meter	89.77	<b>92.80</b>	81.60	<b>84.33</b>	\$171.37	<b>\$177.13</b>
6 Inch Meter	179.53	<b>185.57</b>	163.21	<b>168.66</b>	\$342.74	<b>\$354.23</b>
8 Inch Meter	300.73	<b>310.70</b>	273.38	<b>282.51</b>	\$574.11	<b>\$593.21</b>
10 Inch Meter or larger	457.82	<b>475.11</b>	416.18	<b>430.08</b>	\$874.00	<b>\$905.19</b>

### Usage Charge per 1,000 gallons

	<b>Current Water</b>	<b>Proposed Water</b>	<b>Current Sewer</b>	<b>Proposed Sewer</b>
<b>Residential</b>				
Up to 4,000 gallons	1.54	<b>1.56</b>	4.26	<b>4.34</b>
4,001 to 10,000 gallons	3.00	<b>3.15</b>	4.26	<b>4.34</b>
10,001 to 15,000 gallons	4.20	<b>4.33</b>	4.26	<b>4.34</b>
Above 15,000 gallons	5.38	<b>5.80</b>	4.26	<b>4.34</b>

### General Services

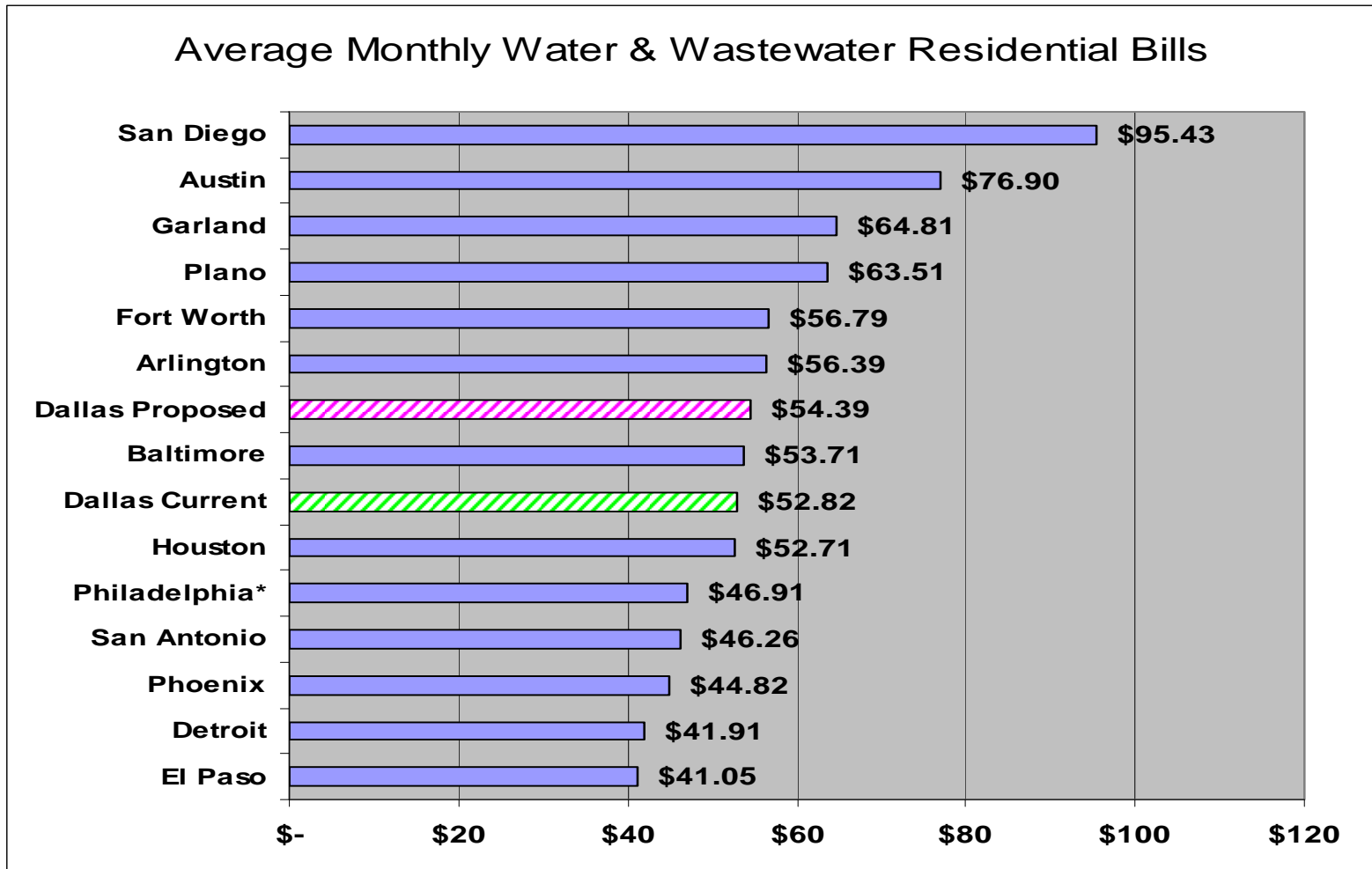
Up to 10,000 gallons	2.03	<b>2.14</b>	2.74	<b>2.85</b>
Above 10,000 gallons	2.50	<b>2.61</b>	2.74	<b>2.85</b>
Above 10,000 gallons for use more than 1.4 times annual monthly average	3.68	<b>3.83</b>	2.74	<b>2.85</b>

### Optional General Services

1st million gallons or less (minimum)	1,593.00	<b>1,650.21</b>	2.68	<b>2.79</b>
Above 1 million gallons (per 1,000 gallons)	2.05	<b>2.15</b>	2.68	<b>2.79</b>

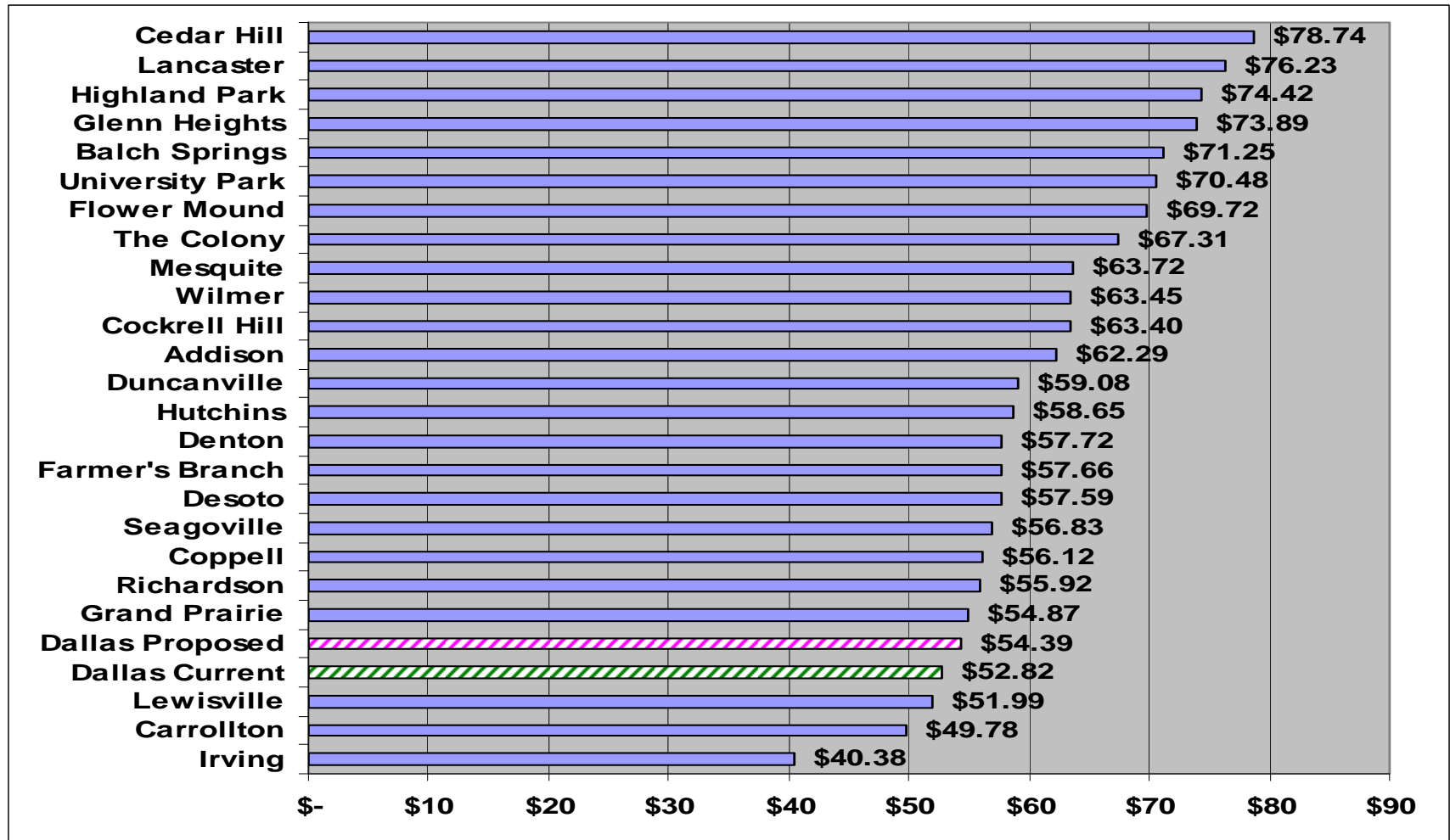
**Proposed rates effective Oct. 1, 2010**

# Index Cities Comparison of Average Monthly Water & Sewer Residential Bills



Note: Bill comparison based on rates effective August 2010; water consumption of 8,300 gallons; and, 6,100 gallon Winter Months Average for sewer

# Customer Cities Comparison of Average Monthly Water & Sewer Residential Bills



Note: Bill comparison based on rates effective August 2010; water consumption of 8,300 gallons; and, 6,100 gallon Winter Months Average for sewer

# Water Conservation Program

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# Water Conservation Five-Year Strategic Plan 2010 Update

- City's long-term planning tool to help curb water waste and improve water efficiency management
- Serves as foundation for state mandated water conservation plan
- Strategies include projected long-term water savings and reductions in gallons per capita usage
- Updated plan adopted by the City Council in June 2010

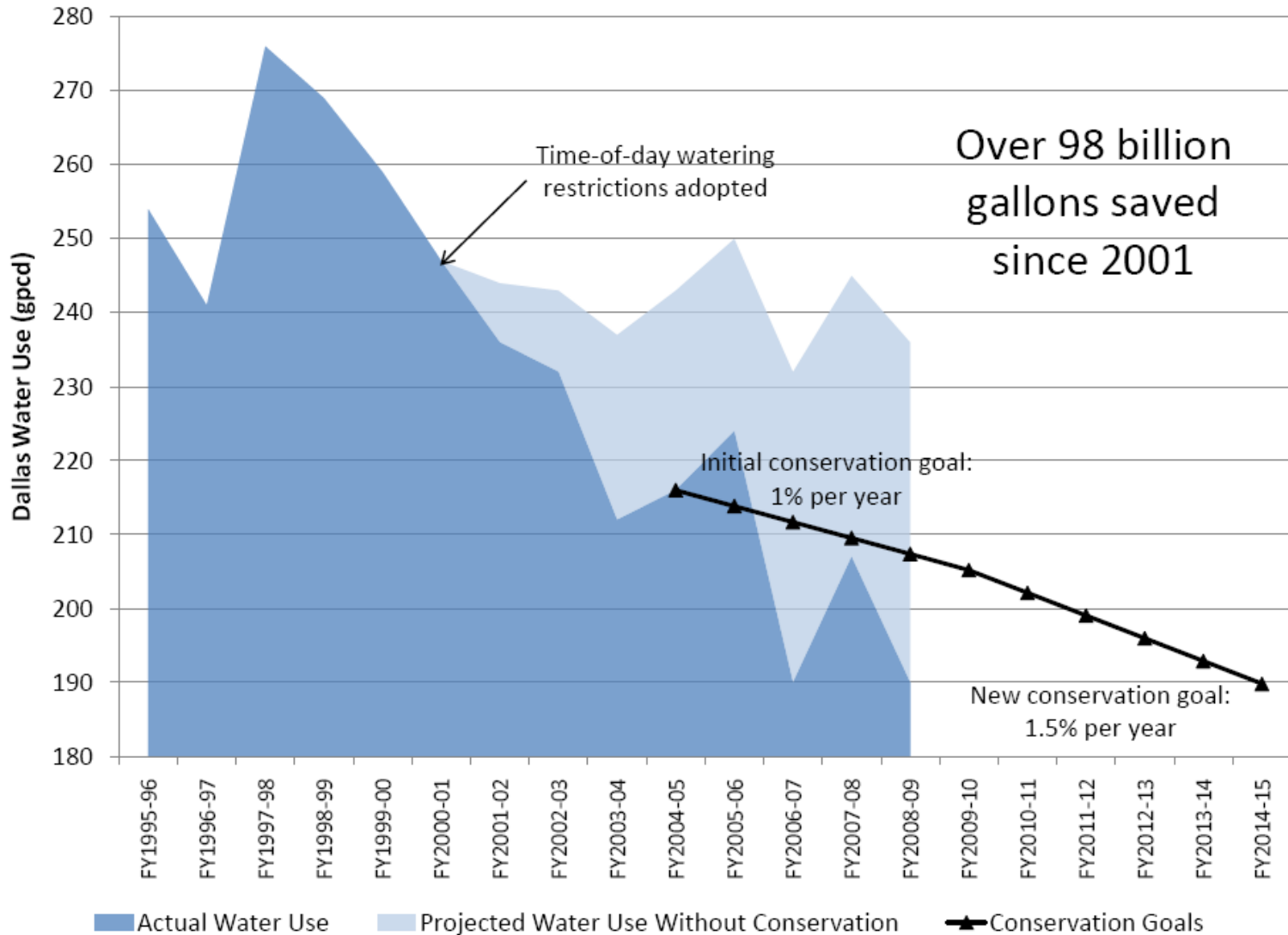


# Conservation Efforts

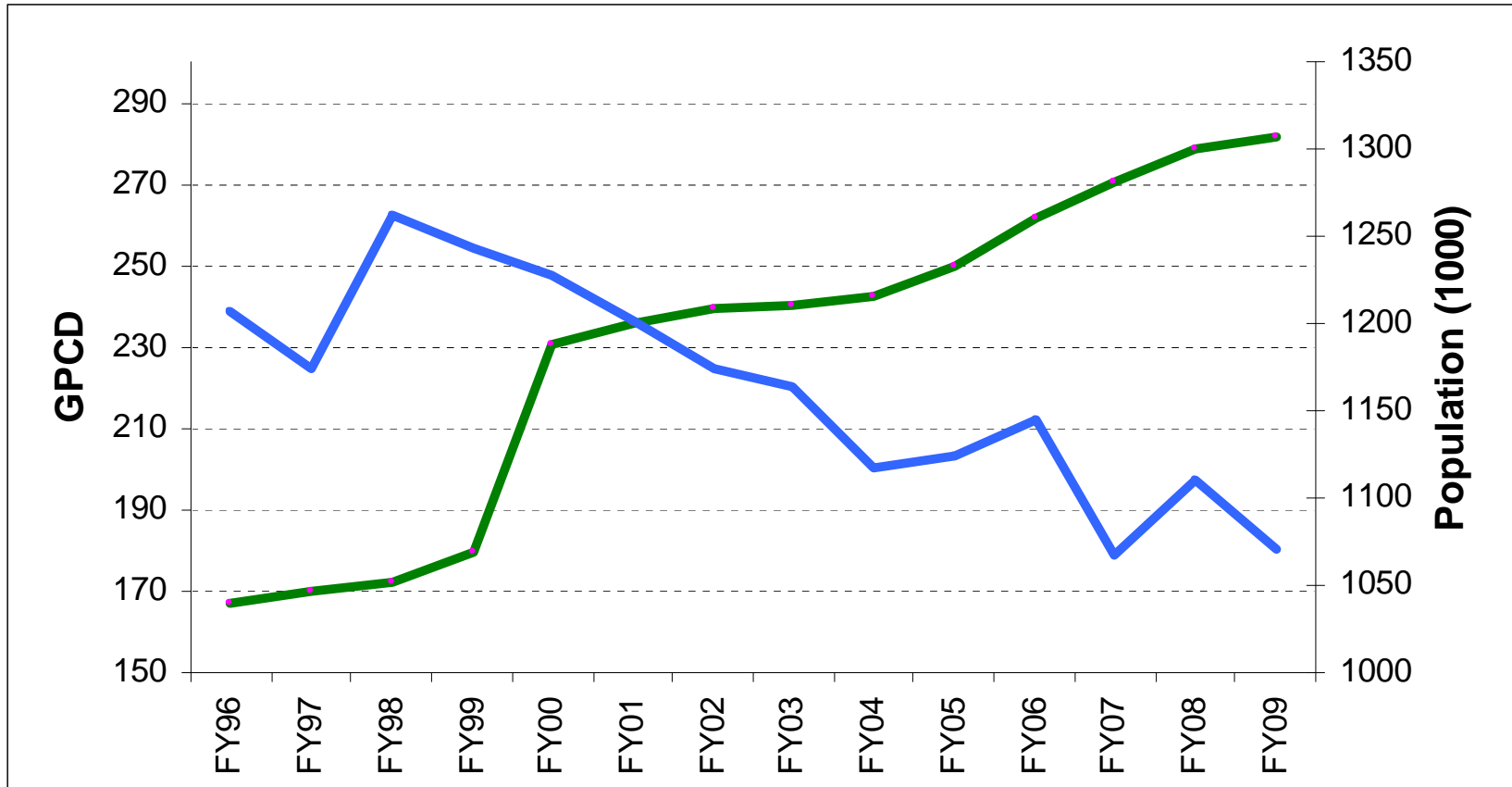
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- Conservation measures adopted by the Council in Oct 2001 have been positive
  - Dallas saved an estimated 98.0 billion gallons of water since 2001
  - GPCD has been reduced approximately 21% from FY02 to FY09
  - As a result, Dallas has been able to mitigate the impact of drought weather conditions on water supply
- Five Year Strategic Plan adopted in April 2005 is working
  - Goals designed to achieve an average 1% per year reduction in gallons per capita per day over five years
  - Actual average reduction is 2.8% in gallons per capita annually
- Dallas continues to aggressively pursue conservation strategies
  - Time-of-day watering restrictions extended from April 1 to Oct 31 annually
  - Previously, time-of-day watering restrictions were Jun 1 – Sep 30 annually
  - Council approved toilet rebate program in April 2007
- Update to Five-Year Strategic Plan adopted by Council June 9 2010
  - New water savings goal average 1.5% per year reduction in GPCD
  - 13 cost-effective water conservation measures including additional leak detection and repair crews, Industrial, Commercial and Institutional (ICI) programs and cooling tower audits
  - Includes additional water savings from Increased leak detection and repair efforts begun in prior years
- 25% of future water will be met by conservation and reuse

# Dallas GPCD Trends



# Dallas' GPCD and Population



Conservation measures adopted by the Council in Oct 2001 have been positive, including a reduction of approximately 31% in GPCD from FY98 to FY09.

Note: Annual GPCD is Pumpage minus Wholesale and Industrial Sales

# FY11 Capital Program Major Projects

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# FY11 Capital Improvement Projects

## Rehabilitation and Replacement of Deteriorated Infrastructure

Provides for rehabilitation and replacement of water and wastewater facilities and infrastructure

- Water Main Replacements Design and Construction	\$60,484,000
- Sewer Main Replacements Design and Construction	\$47,114,000
- Water Facilities	
Elm Fork Water Treatment Plant - Lagoon Cleaning	\$5,000,000
Elm Fork Water Treatment Plant - Rehab Pump Station 1	\$800,000
Elm Fork Water Treatment Plant - Alternatives to Chlorine Gas	\$500,000
Elm Fork Water Treatment Plant - Sedimentation Basin Modifications	\$900,000
Walcrest Pump Station and Reservoir Improvements	\$36,000,000
Change Order - Water Facilities	\$250,000
Water Facilities Security Improvements	\$800,000
Customer Cities Meter Assessments and Improvement	\$500,000
Geotechnical / Material Testing	\$470,000
Water Facilities Repairs and Rehabilitation	\$2,000,000
- Wastewater Facilities	
Central Wastewater Treatment Plant - Influent Pump Station	\$58,000,000
Central Wastewater Treatment Plant - Major Maintenance Improvements	\$4,000,000
Central Wastewater Treatment Plant - Site Piping & Interceptor Improvements	\$2,000,000
Central Wastewater Treatment Plant - White Rock Pump Station Renovation	\$2,000,000
Central Wastewater Treatment Plant - White Rock Primary Clarifiers Replacement (1-6)	\$2,000,000
Southside Wastewater Treatment Plant - Phase I and II Filter Improvements	\$5,000,000
Southside Wastewater Treatment Plant - Dewatering Facility Improvements	\$500,000
Southside Wastewater Treatment Plant - Major Maintenance Improvements	\$8,000,000
Southside Wastewater Treatment Plant - Thickening Facilities Improvements	\$1,000,000
Wastewater Facilities Security Improvements	\$500,000
Change Orders - Wastewater Facilities	\$900,000
Geotechnical / Material Testing	\$330,000
Wastewater Facilities Repairs and Rehab	\$1,500,000
<b>Total</b>	<b>\$240,548,000</b>

# FY11 Capital Improvement Projects (cont.)

## Customer Usage

Provides for water and wastewater system enhancements to meet increase in customer demand, improve system efficiency, provide new customer extensions and promote development activities

- Homeowners Extensions and Development Support	\$6,000,000
Central Wastewater Treatment Plant - Sunbeam and Five Mile Structure Improvements	\$1,500,000
Southside Wastewater Treatment Plant - Grease Digestion (Design-Build Project)	\$4,000,000
Water Planning Studies	\$250,000
General Hydrologic and Hydraulic Engineering Contract	\$200,000
Lake Ray Hubbard Right of Way Acquisition, Easements, Permits	\$1,000,000
Right of Way Acquisition for third Tawakoni Pipeline	\$500,000
Lake Palestine Right of Way Acquisition	\$250,000
Bachman Water Treatment Plant Change Orders	\$150,000
Purchase Property at NE Corner of Elm Fork Water Treatment Plant	\$800,000
Elm Fork 72" Water Pipeline	\$3,500,000
East Side Water Treatment Plant - Construction Manager Services	\$3,500,000
East Side Water Treatment Plant - Change Orders	\$300,000
East Side Water Treatment Plant - Substation 3	\$13,000,000
East Side Water Treatment Plant - Electrical Improvements	\$10,000,000
Right of Way for East Side Water Treatment Plant to SW Dallas Water Pipeline	\$10,000,000
Mountain Creek Phase I Pipeline Improvements	\$527,000
Customer Growth and Development Improvements	\$1,968,000
<b>Total</b>	<b>\$57,445,000</b>

# FY11 Capital Improvement Projects (cont.)

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## Regulatory

Compliance with new and revised state and federal requirements

-	Forney Dam Repairs	\$7,600,000
	Bachman Dam Replacement	\$250,000
	Elm Fork Water Treatment Plant - Convert from Enhanced Softening to Enhanced Coagulation	\$2,160,000
	Elm Fork Water Treatment Plant - Implement AOC Reduction Strategy	\$2,230,000
	East Side Water Treatment Plant - Implement AOC Reduction Strategy - Non-Chlorinated Backwash	\$1,125,000
	Wastewater Treatment Plant Permit Renewals and Modeling	\$100,000
	<b>Total</b>	<b>\$13,465,000</b>

## Utility Relocations

Supports GO Bond Program by providing for relocations and replacement of water and wastewater mains in advance of paving projects

**Total** **\$34,825,000**

**Proposed FY 2010 - 2011 Capital Improvements** **\$346,283,000**

# The Path to 2060 – Water Supply of 1,036.11 MGD

Current	Underway	Likely	Unsecured	Total Need (MGD)
<ul style="list-style-type: none"> <li>• Ray Roberts/Lewisville</li> <li>• Grapevine</li> <li>• Ray Hubbard</li> <li>• Tawakoni</li> <li>• Elm Fork of Trinity</li> </ul>	<ul style="list-style-type: none"> <li>• Lake Fork - Startup Phase (102.54 MGD)</li> <li>• Lake Palestine - 2015 (100.00 MGD)</li> <li>• Conservation - various dates (47.40 MGD)</li> <li>• Direct Reuse - various dates (18.25 MGD)</li> </ul>	<ul style="list-style-type: none"> <li>• Contract for Return Flows - various dates (71.02 MGD)</li> <li>• Ray Hubbard Indirect Reuse - permitted - 2012 (60.00 MGD)</li> <li>• Lewisville Indirect Reuse - permitted - 2022 (60.00 MGD)</li> </ul>	<ul style="list-style-type: none"> <li>• Wright Patman Flood Pool - 2035 (100.00 MGD)</li> <li>• Fastrill - 2045 (100.00 MGD)</li> </ul>	
376.90	268.19	191.02	200.00	1,036.11

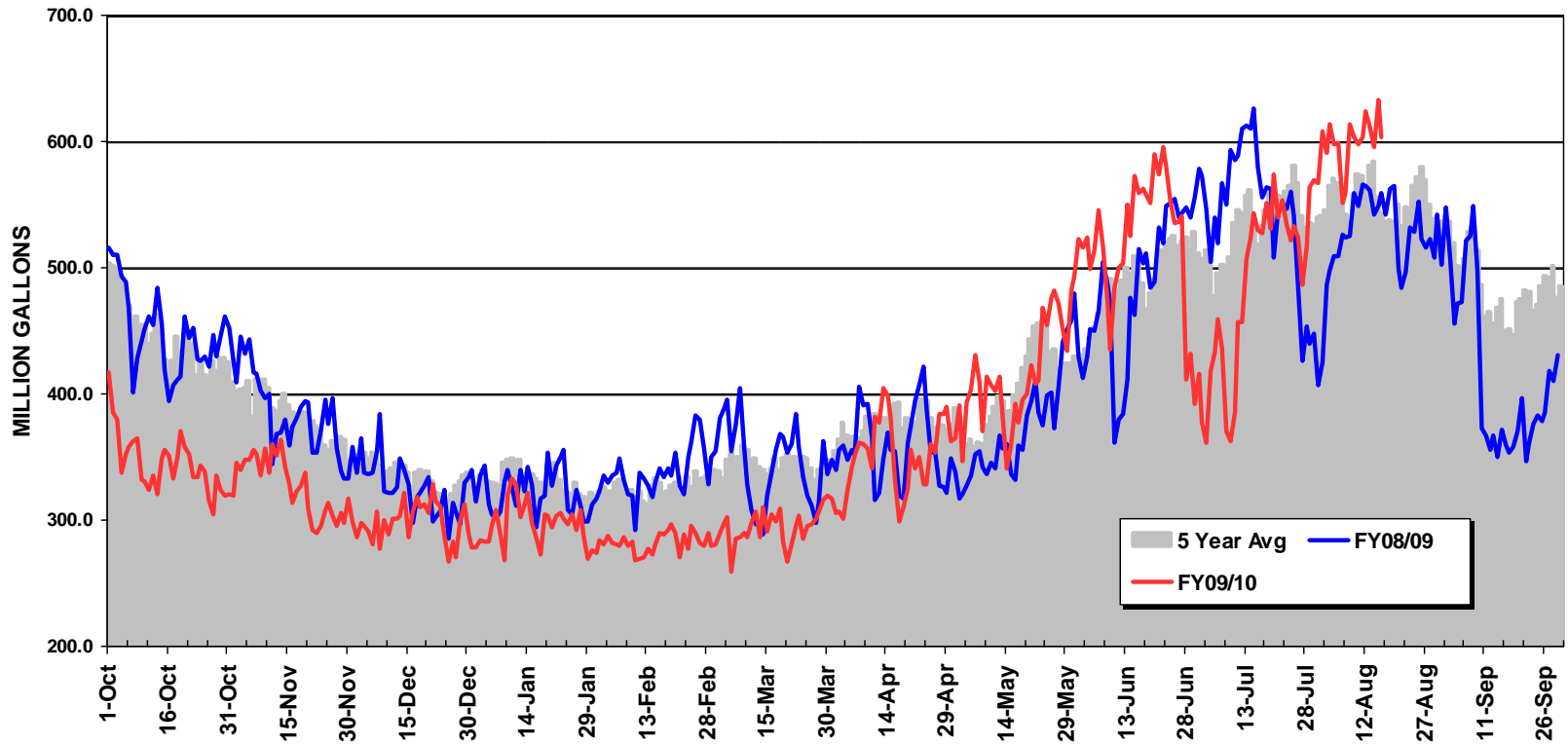
- Our water supply in 2060 totals 1036.11 MGD
- Currently we have 376.90 MGD connected
- We are reasonably assured of an additional 268.19 MGD (underway)
- An additional 191.02 MGD is likely
- Wright Patman and Fastrill, totaling 200 MGD, are yet to be secured

$$\begin{aligned}
 &1036.11 \text{ (need)} \\
 &- 376.90 \text{ (current)} \\
 &- 268.19 \text{ (underway)} \\
 &- \underline{191.02} \text{ (likely)} \\
 &= 200.00
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• 80 percent of 2060 water needs are reasonably assured, which meets Dallas' water needs through the year 2035

# Dallas Water Utilities System

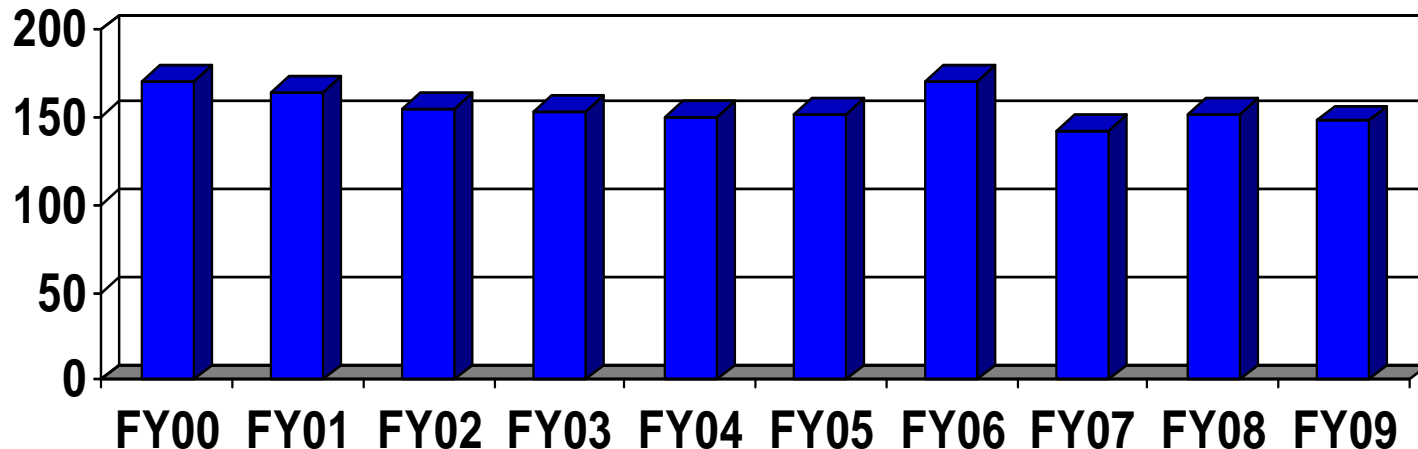
## Daily Water Consumption (FY09 and FY10)



8.1 BG behind FY09 consumption through August 17<sup>th</sup>. Last year's water consumption was 148.0 BG

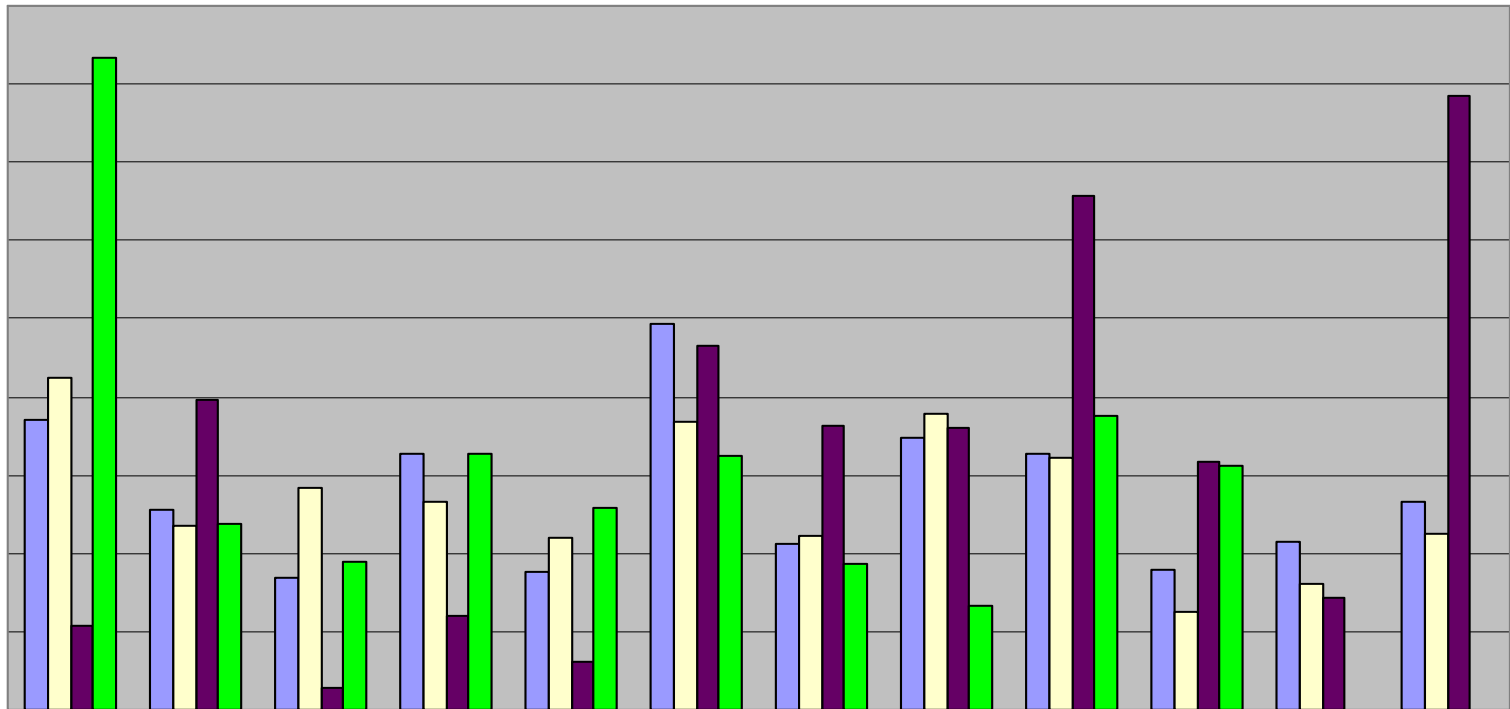
# Fiscal Year 2010-11 Revenue Projection

- Projected FY11 pumpage of 160.1BG
  - FY10 budgeted pumpage of 162.0BG
  - FY10 Year end projection of 1425.0BG
- Reduction of 1.9 BG in budgeted pumpage to reflect:
  - Impact of enhanced conservation program
  - Current weather trends



■ Historical Water Consumption in Billion Gallons

# Historical Rainfall Data



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5 Yr Avg	3.71	2.55	1.70	3.26	1.77	4.94	2.13	3.49	3.27	1.78	2.14	2.67
10 Yr Avg	4.25	2.36	2.85	2.66	2.21	3.67	2.22	3.77	3.22	1.25	1.60	2.24
FY09	1.08	3.97	0.29	1.20	0.62	4.65	3.62	3.61	6.58	3.17	1.43	7.86
FY10	8.33	2.38	1.90	3.27	2.57	3.24	1.86	1.32	3.76	3.11		

# Current Lake Levels as of August 17, 2010

Reservoir	% to Dallas	Reservoir	Res. % of Total	Dallas	Water Surface (ft)		
		Percent Depleted		Percent Full	Full	Current	Down
Lewisville	87.89%	10.57%	21.23%	97.76%	522.00	519.96	2.04
Grapevine	52.71%	1.37%	3.40%	99.95%	535.00	533.72	1.28
Ray Roberts	74.00%	4.14%	26.09%	98.92%	632.50	631.11	1.39
<b>Tawakoni*</b>	79.98%	7.17%	31.19%	97.76%	437.50	435.79	1.71
Ray Hubbard	100.00%	16.60%	18.09%	<u>97.00%</u>	<u>435.50</u>	<u>432.1</u>	3.40
Weighted % Full:				91.39%	2,562.50	2,552.68	
% Depleted				8.61%			