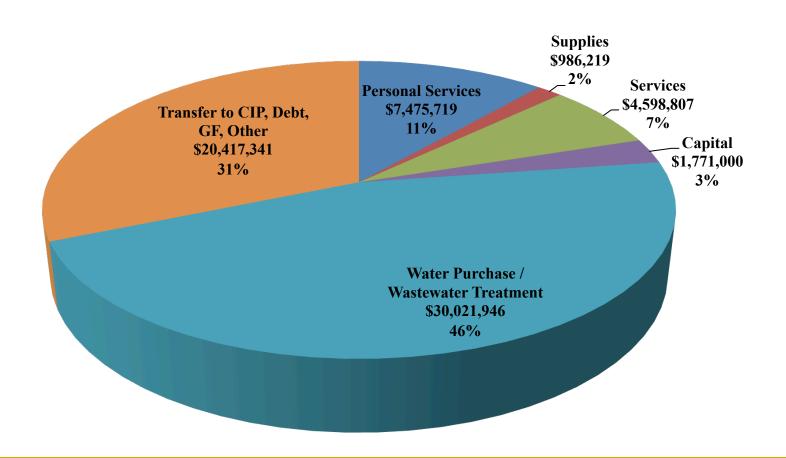
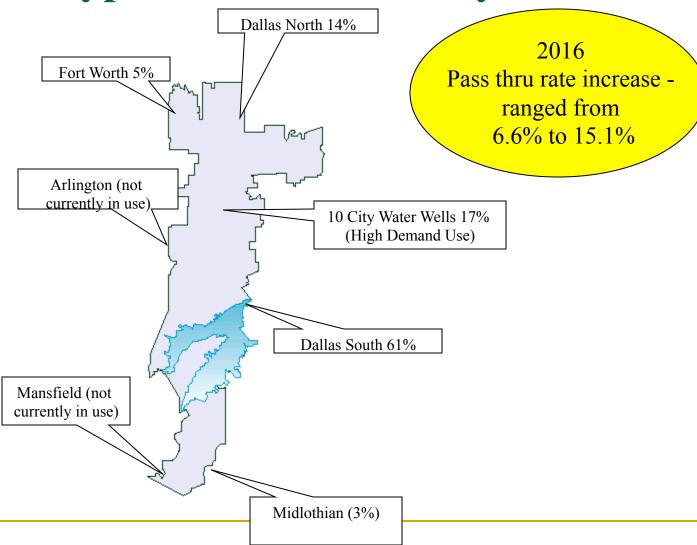
# Water Smart

Presented by the City of Grand Prairie
April 2016

## FY 2016 WATER WASTEWATER FUND EXPENDITURE DISTRIBUTION

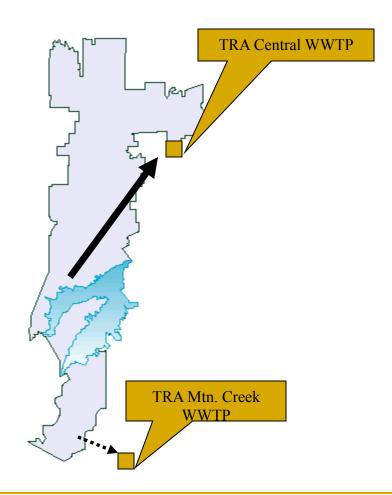


City Water Supply Sources
Typical Maximum Day



#### **Wastewater Treatment**

2016
TRA Pass
thru rate increase of
9%



## YOUR WATER BILL.... IT'S NOT JUST THE WATER



#### WHAT ARE THE PARTS OF YOUR WATER BILL????

- FIXED monthly rate for garbage/recycling, storm drainage fee, water base and wastewater base rates.
- VARIABLE wastewater rate
- VARIABLE water rate

#### THE VARIABLE WATER RATE REALLY DOES VARY

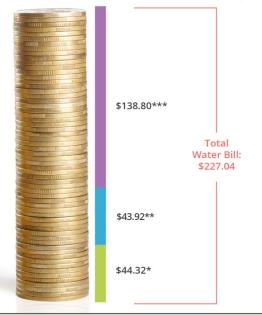
	GALLONS	Rate @ 1,000 Gallons	Water Usage	
Lifeline Rate Lifeline rate applies only if you use LESS than 3,000 gallons	0 - 3000	\$0.12	Low	
Tier 1 Tier 1 rate applies to all the water consumed if you exceed 3,000 gallons up to 20,000 Gallons	0 to 20,000	\$3.73	Average High	
Tier 2 Tier 2 rate kicks in for each additional 1,000 gallons after 20,000 consumed	21,000 and Over	\$6.42		

### City of Grand Prairie Water Bill Comparison Based on Gallons Used

**3,000 Gallons** (Lifeline Rate Example)

**8,000 Gallons** (1st Tier Rate Example)

**30,000 Gallons** (2nd Tier Rate Example)





\$0.36\*\*\* \$8.78\*\*

Total Water Bill: \$44.32\*

\$53.46

\* Fixed monthly rates

for garbage/recycling, storm drain, water base and wastewater base (the base water and base wastewater rates are determined by meter size).

\*\* Variable wastewater
rate based on the lower of
the current month's usage
or the winter month's

\$29.84\*\*\*

\$23.42\*\*

Total

Water Bill: \$97.58

\*\*\* Variable water rate based on usage.

	water beared on the classes of						
	rate based on the lower of the current month's usage or the winter month's average usage. This rate			Residential Water Rate Per 1,000 Gallons			
			Lifeline The "Lifeline" r	0 to 3,000 ate only applies if you do no	<b>\$0.12</b> at exceed 3,000 g	Low gallons.	
may be different for every ). customer depending on their consumption.		Tier 1 The Tier 1 rate	0 to 20,000 applies when you exceed 3,	<b>\$3.73</b> 000 gallons (up	Average to 20,000 gallons).		
		•		21,000 and Over allons consumed (at the Tier ged Tier 2 rate.	\$6.42 1 rate), each ad	High Iditional 1,000	

#### WHY THE TIERED WATER RATE STRUCTURE

 Water is a limited resource and the State and our water providers are mandating conservation efforts

• To comply with the State's water conservation efforts, the tiered system incentivizes less water use.

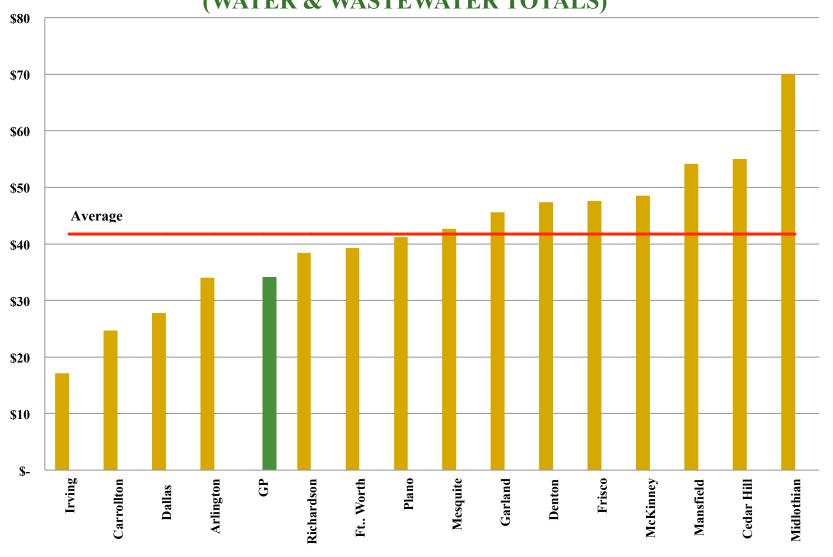


Dallas and NTWD also mandate water conservation including a two day limit for irrigation systems

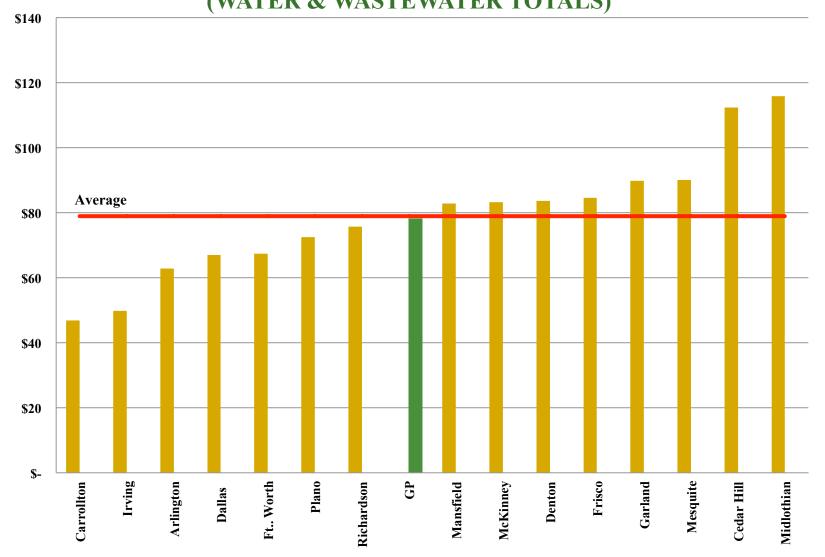
## City's water/wastewater rates remain competitive



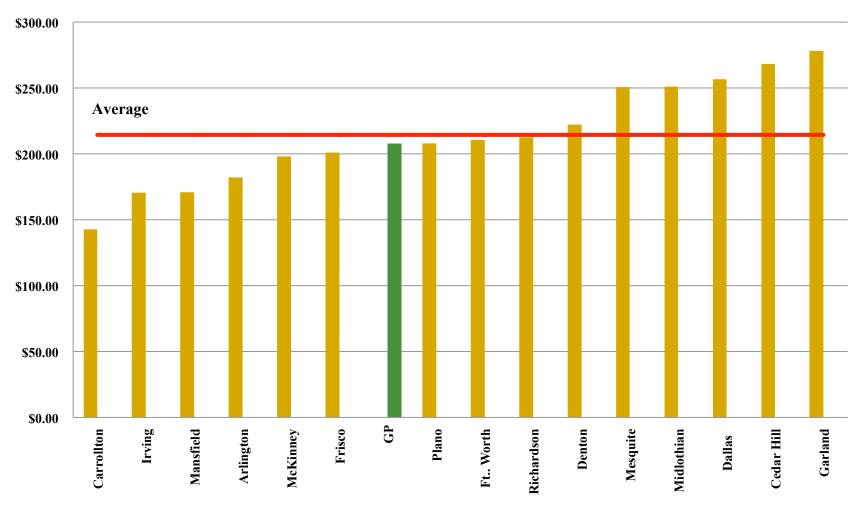
## RESIDENTIAL 3,000 GALLONS (WATER & WASTEWATER TOTALS)



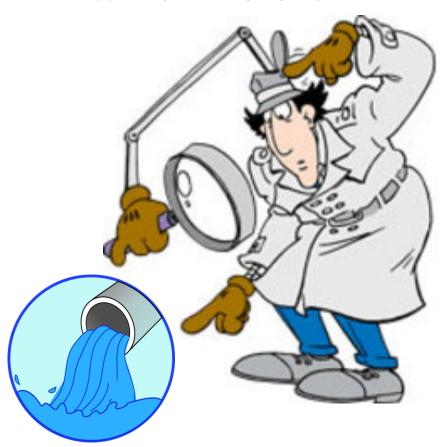
## RESIDENTIAL 8,000 GALLONS (WATER & WASTEWATER TOTALS)



## RESIDENTIAL 30,000 GALLONS (WATER & WASTEWATER TOTALS)



## City conducts water audit using independent third party verification of water meters



- 1. City's Water Rate Ordinance
  - □ Rate Structure encourages water conservation.
  - Water rates are competitive in the metroplex.
  - Water rates are approved annually at a City Council meeting.
  - Water rates are setup up properly within the utility billing system.

#### 2. Recalculation of Water Bills

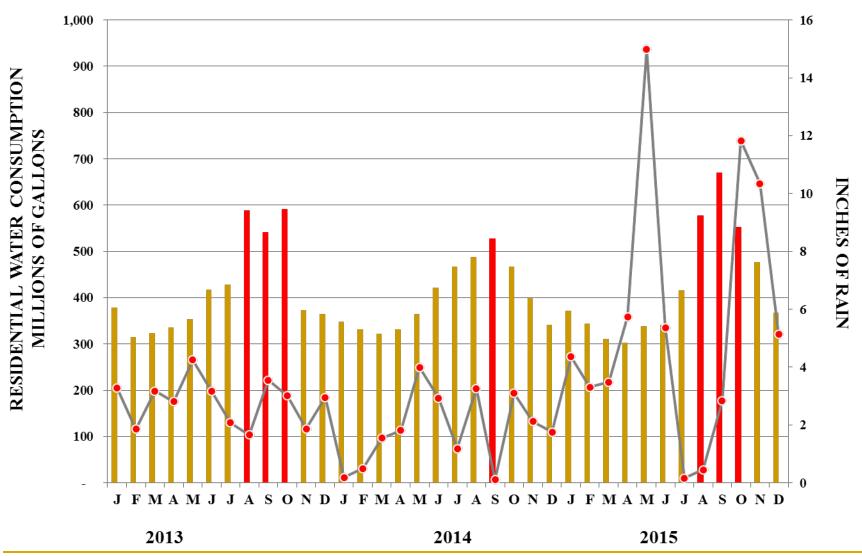
- □ There is no water bill discrepancy between the utility billing system and a manual calculation.
- □ There is no wastewater bill discrepancy between the utility billing system and a manual calculation.
- □ There is no garbage/recycling bill discrepancy between the utility billing system and a manual calculation.
- □ One discrepancy between storm drainage bill between the utility billing system and a manual calculation coded for lower rate/customer under billed.

- 3. City's Water Billing Process
  - All controls are being followed and no significant discrepancies are occurring.
  - □ There is no discrepancy between the entire customer water bill and the 3<sup>rd</sup> party vendor issued water bill.

- 4. City's Water Meter Accuracy
  - A sample of fifty visual meter reads versus ERT (Encoder/Receiver/Transmitter) readings indicated a variance of -10 to +70 gallons, with 91% of ERT's under reading.
  - □ Third party testing of fifty meters by Southern Flowmeter, Inc. indicated the average accuracy was 98.03% to 101.38%, well within AWWA (American Water Works Association) standards of 95% to 101.5%.

- 5. Analytic Data
  - Water consumption is higher when the temperature is higher.
  - Water consumption is lower when precipitation is high.
  - Water data on the Peninsula compared to entire City
    - Peninsula Water Accounts/% Water Usage = 7.9%/10.9%
  - Pool permits on Peninsula compared to entire City
    - % Peninsula Pool Permits/% Peninsula Homes = 16%/7.9%
  - Irrigation permits on Peninsula compared to entire City
    - % Peninsula Irrigation Permits/% Peninsula Homes = 32%/7.9%

## CITY OF GRAND PRAIRIE RESIDENTIAL WATER CONSUMPTION VERSUS RAINFALL 2013 TO 2015 BY MONTH



#### CONCLUSION

- □ The water billing system is working correctly.
- □ The meter reading system is working correctly.
- □ The meters are recording water consumption correctly.
- A small number of variances in the reading or recordings are not statistically significant and are well within the utility AWWA standards.
- Higher water usage on the Peninsula may be driven by the higher percentage of homes with pools and irrigation systems on the Peninsula.

#### **FUTURE WATER**

Water will continue to be a scarce resource "in the future."

The city's water suppliers and wastewater treatment provider forecast rate increases "in the future."

■ The City's new AMI system will allow customers to manage their water use "in the future."

### At Your Local Grocery Store

A gallon of drinking water will cost you 99¢ at your local grocery store.



#### At Your Local Residence

A gallon of water out of your Grand Prairie faucet will cost you a mere ½ of 1¢



