

### Welcome

Presented by
Phil Ford
General Manager/CEO

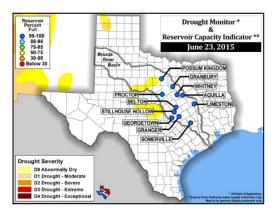


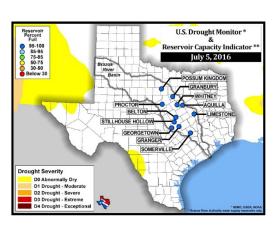
### Water Supply

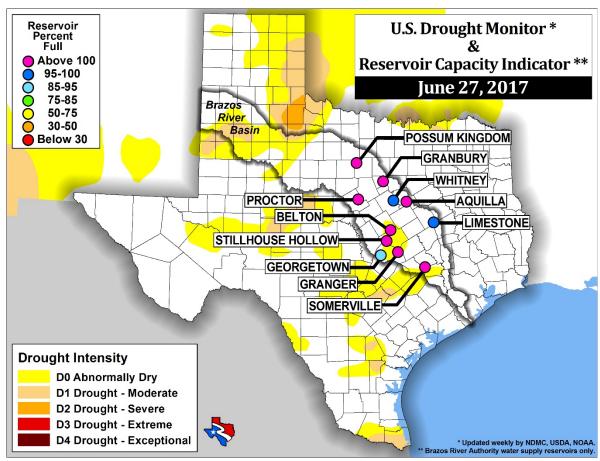
Presented by
Brad Brunett
Water Services Manager



### **Drought Monitor & Reservoir Status**





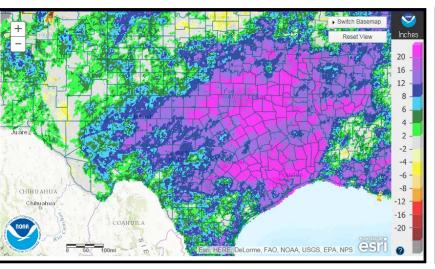


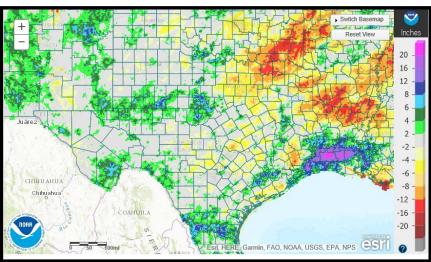


### Departure from Normal Rainfall

October 1, 2015 - July 8, 2016

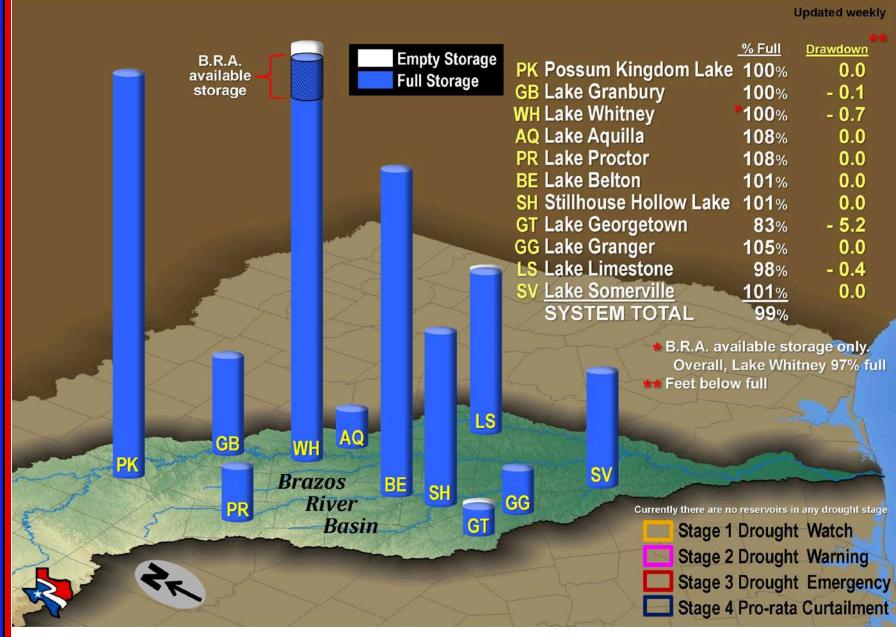
October 1, 2016 – June 14, 2017





#### B.R.A. Water Supply Reservoirs "PERCENT FULL" July 5, 2017







### Drought Study Required by Sys Ops Permit

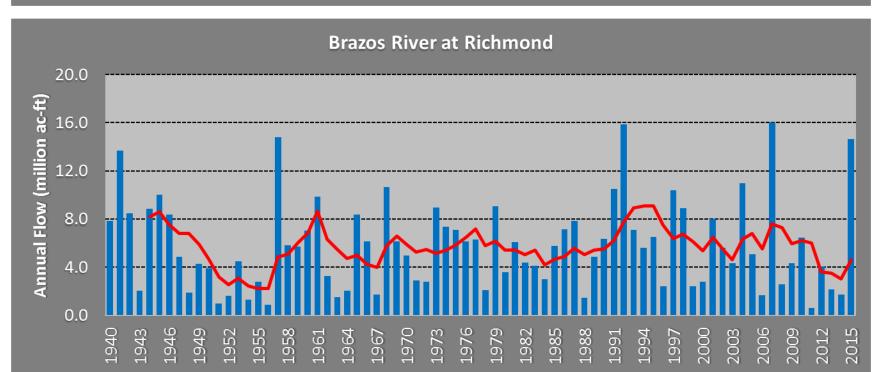
#### Requirement and Questions from the Permit:

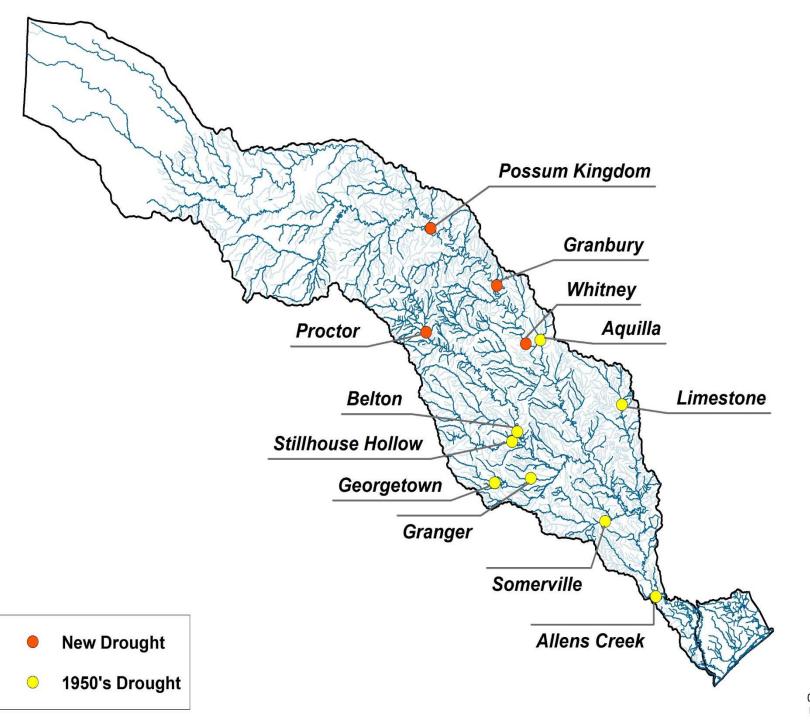
In recognition of current drought conditions, BRA shall perform a detailed evaluation of whether the recently-ended drought:

- (1) represents a drought worse than the drought of record of the 1950s in the Brazos River Basin; and
- (2) decreases the amount of water available for appropriation under this permit.



#### **Brazos River nr South Bend** 3.0 Annual Flow (million ac-ft) 2.0 1.0 0.0



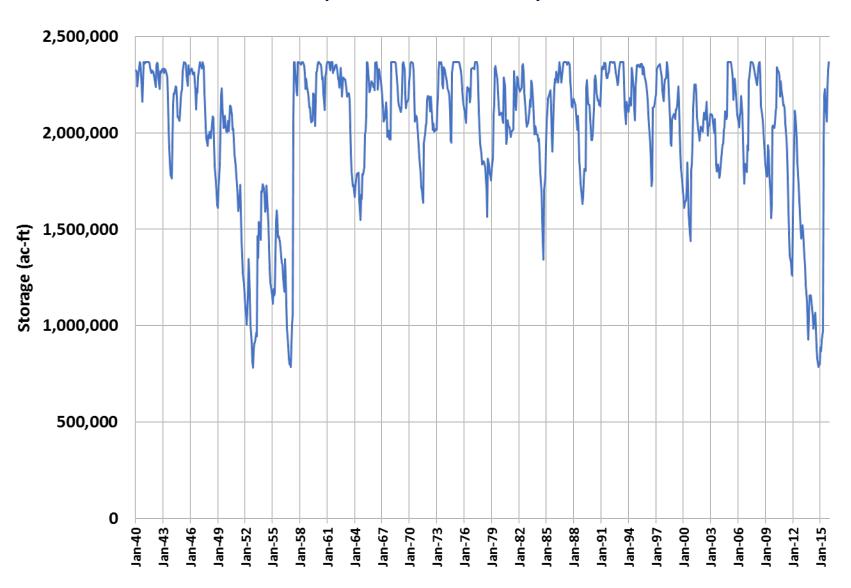


0 15 30 60 Miles



### Total Reservoir System Storage

(TCEQ WAM Run 3)





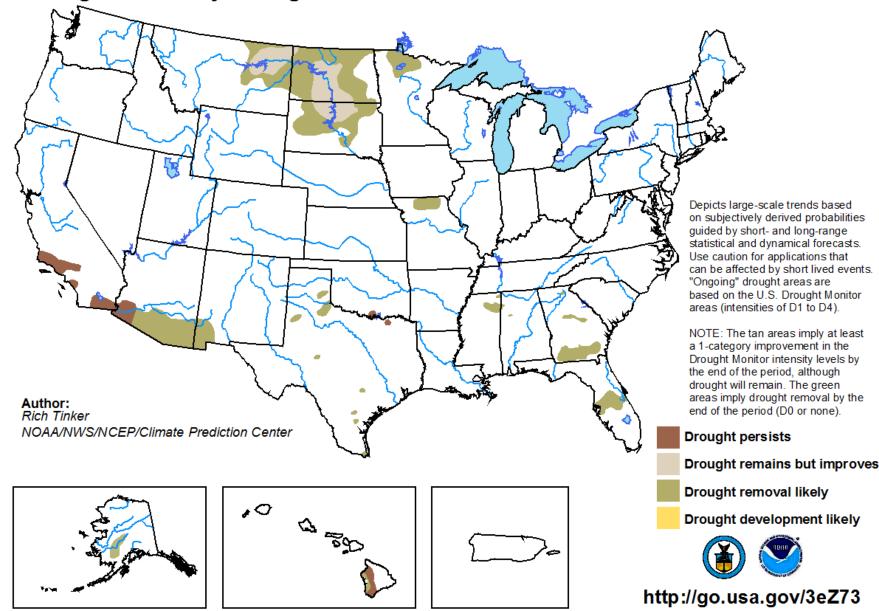
### System Operation Permit and Water Management Plan

- Results of Drought Study Summary
  - 2011-2015 Drought
    - Worse for Upper Basin Only
    - 1950's for entire Basin
  - Availability of Water under System Operation Permit
    - Unchanged from approved Permit



### U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

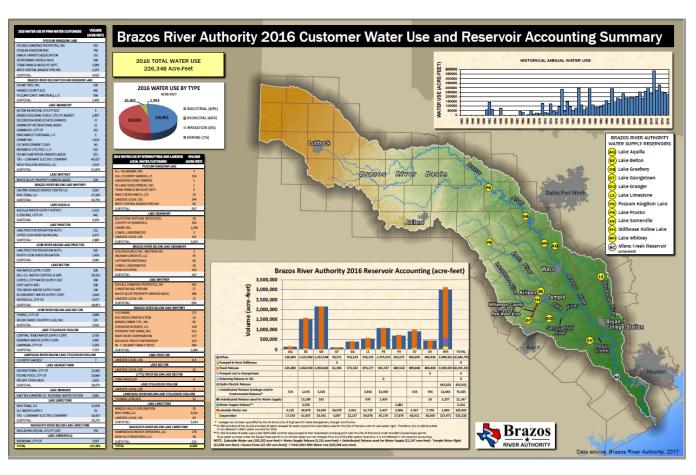
Valid for June 15 - September 30, 2017 Released June 15, 2017





### 2016 Annual Water Use & Reservoir Accounting

Summary now Available on BRA Website



http://www.brazos.org/Portals/0/drought/WaterUseSummary-2016.pdf



### Brazos Basin Freshwater Mussel Candidate Species Update

Presented by
Tiffany Morgan
Environmental and Compliance Manager



# Proposed Listing of Freshwater Mussels as Endangered in Brazos River Basin

- Three species in basin candidates for Endangered Species Act (ESA) protection
  - Final Decision 2018
    - Texas fawnsfoot
    - False spike
  - Consideration 2020
    - Smooth pimpleback

**Texas Fawnsfoot** 



False Spike







### Freshwater Mussels v. Zebra Mussels

Zebra Mussel

#### Freshwater Mussels

- Native
- Rivers and lakes
- Filter feeders
- Soft Substrate
- Riverine species dependent on fish

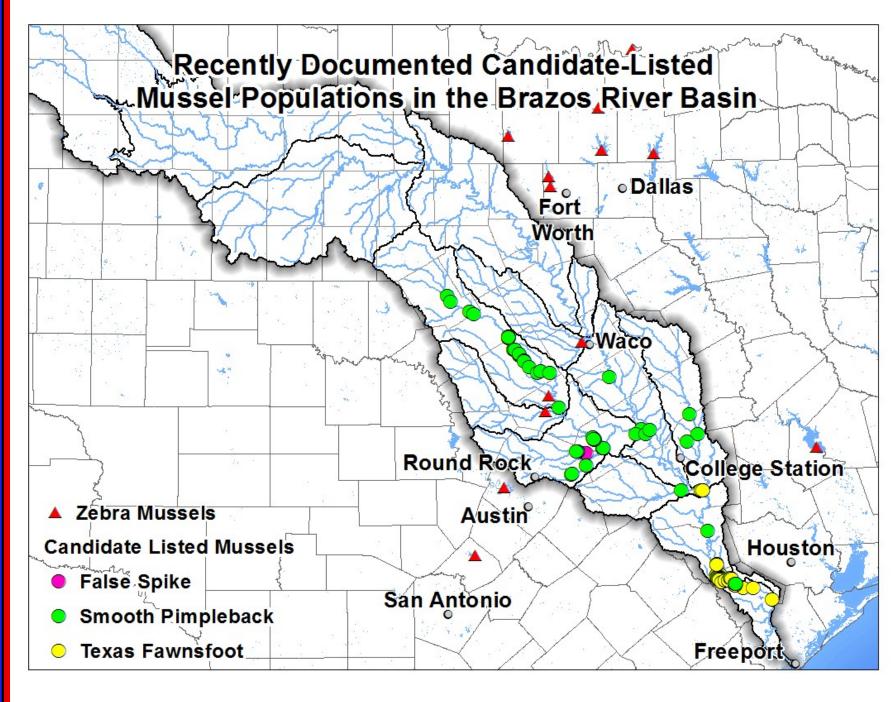
#### Zebra Mussels

- Non-native
- Lakes, generally
- Aggressive breeders
- No know predators
- Hard substrates











### Why do we Care?

- Since 1973, the ESA has proven to be one of the nation's strongest conservation laws
  - Has been widely upheld in the court system
  - Never substantially defeated
- ESA <u>can and has</u> affected state-based water rights and regulations
  - Can limit the traditional exercise of established water rights
  - Restrict or modify new water projects
  - Any water use that results in the direct or incidental take or harm of listed species falls within the ESA's reach



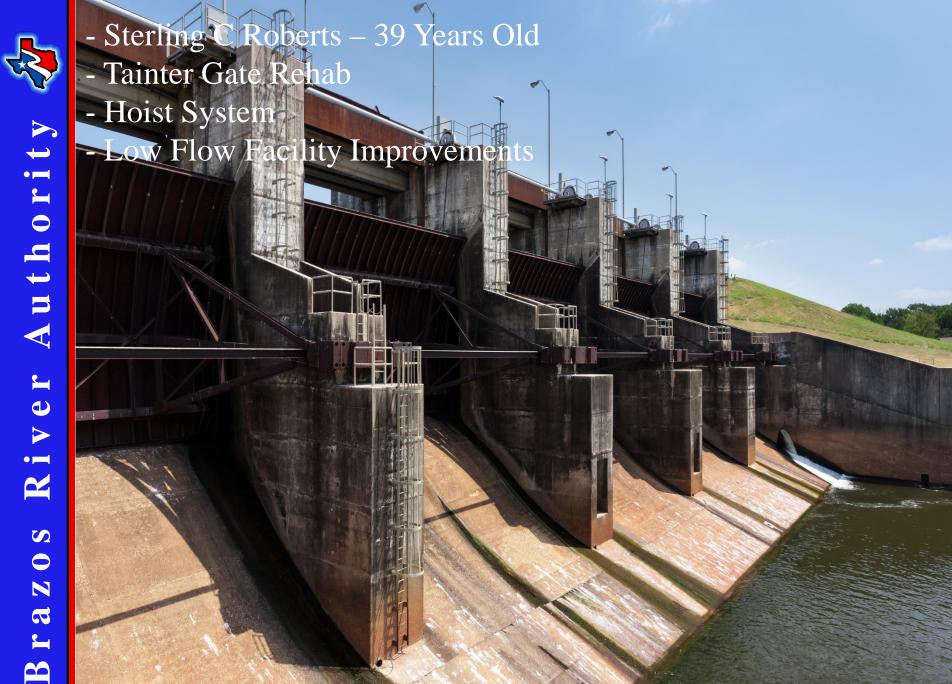
### What's Being Done?

- BRA has been working issue for past year
  - Stream Surveys
  - Customer interaction
  - Comptroller Work Group
- Comptroller's Freshwater Mussel Stakeholder Work Group
  - Meghan.Hope@cpa.texas.gov
  - http://comptroller.texas.gov/programs/species-economy/
- USFWS Species Status Assessment Lead
  - gary\_pandolfi@fws.gov



### Capital Projects Overview

Presented by Basin Regional Manager



# Authority e r razos **M**





# River Authority Brazos















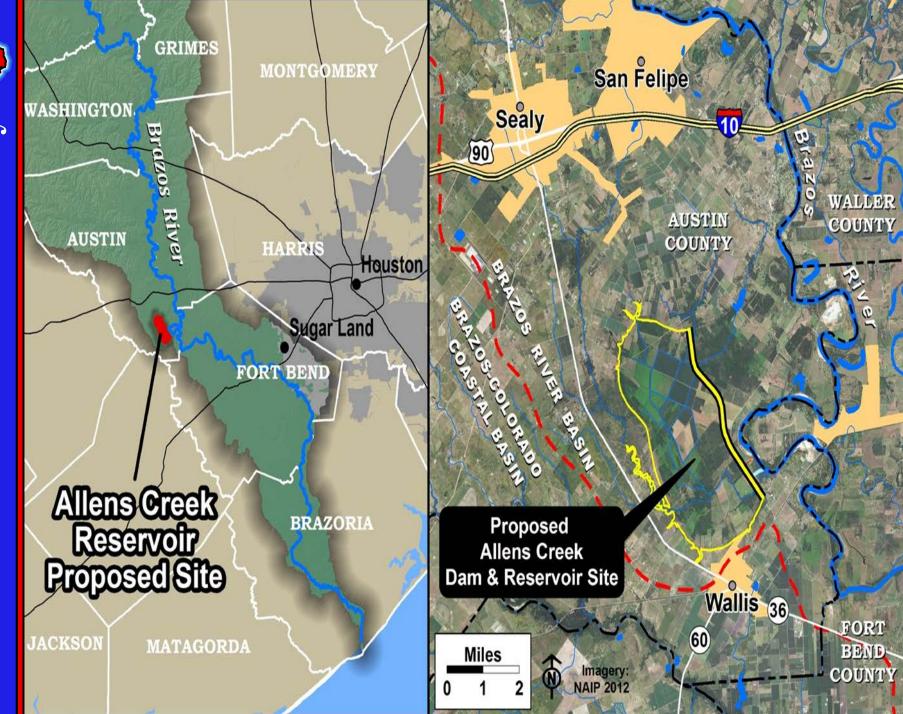
# ~\$2.7M in Projected FY 18 Expenditures - Trolley Replacement Project - Low Flow Project - Reinforced Concrete Project

## Authority River razos M



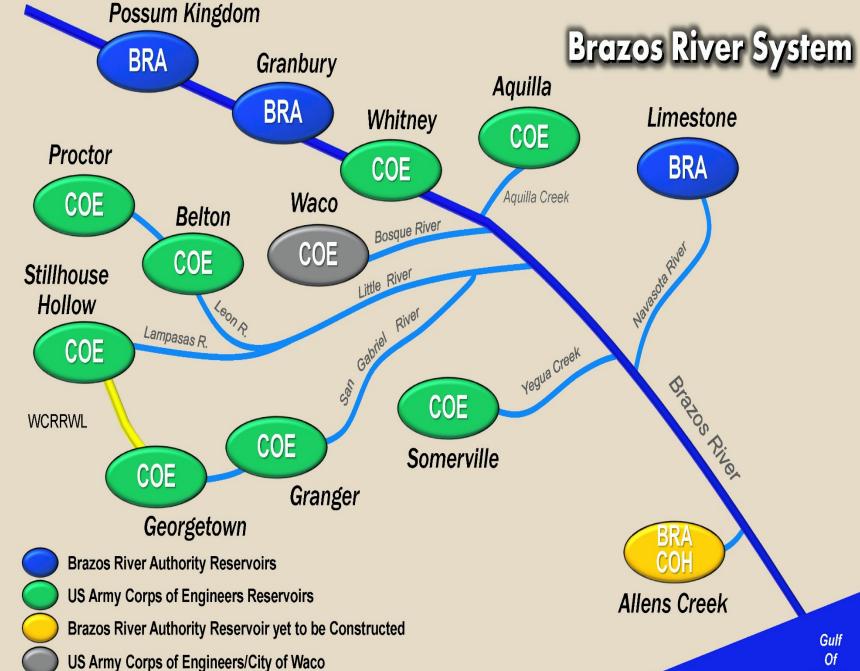






WCRRWL = Williamson County Regional Raw Water Line





Mexico



### Financial Overview

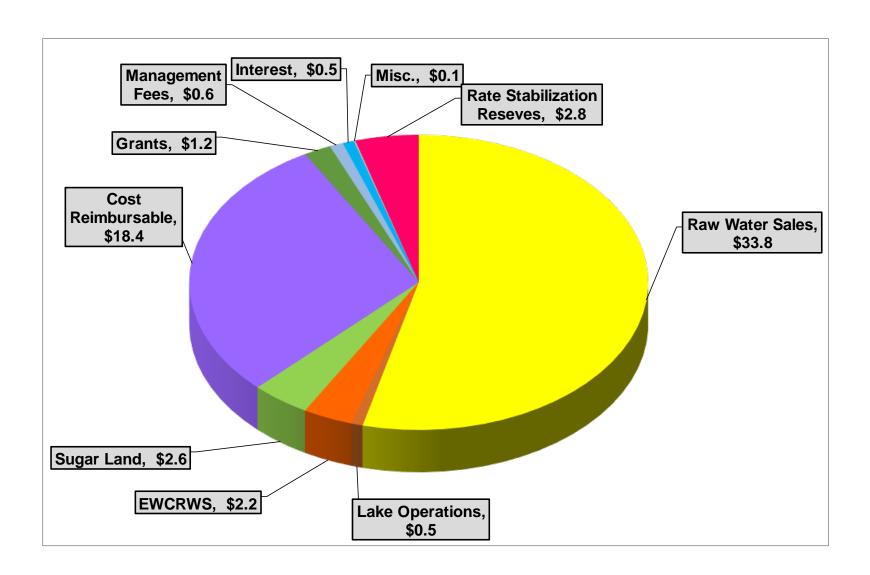
Presented by

David Thompson

Chief Financial Officer

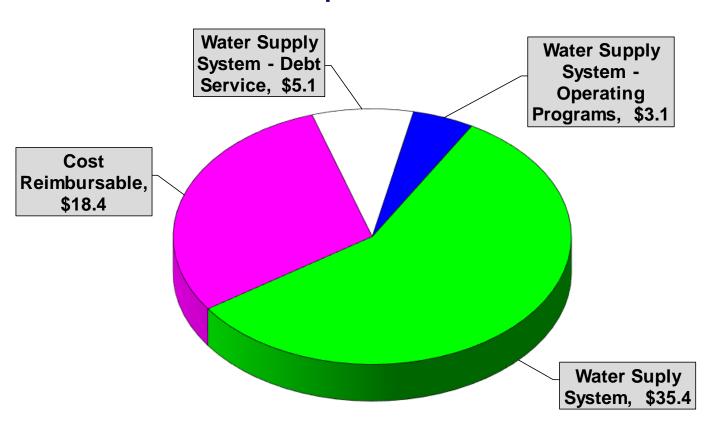


### FY2018 Proposed Revenues \$62.7M



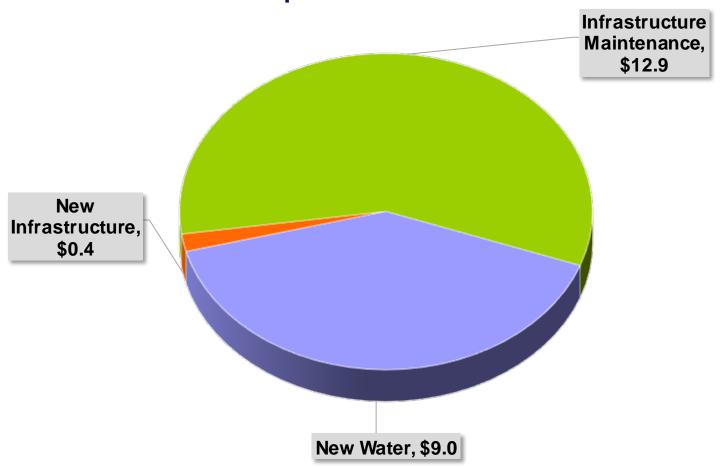


# FY2018 Proposed Operating Expenses \$62.0M





# FY2018 All Projects by Type \$22.3M





### **FY2018 Capital Improvement Projects**

(in thousands)

	Total Project		FY2018 Projected		Est. Completion	
Project Name	Cost		Expenditures		Date	
Allens Creek Reservoir	\$	92,422	\$	5,749	2022+	
Trinity Groundwater		22,860		3,255	2022+	
DeCordova Bend Dam Improvements		8,783		2,782	2019	
Morris Sheppard Dam Improvements		10,416		4,050	2019	
Sterling Robertson Dam Improvements		27,471		4,415	2022+	
Road Repairs at Dams		2,476		1,400	2021	
Other		37,678		655	2022+	
Total			\$	22,306	1	



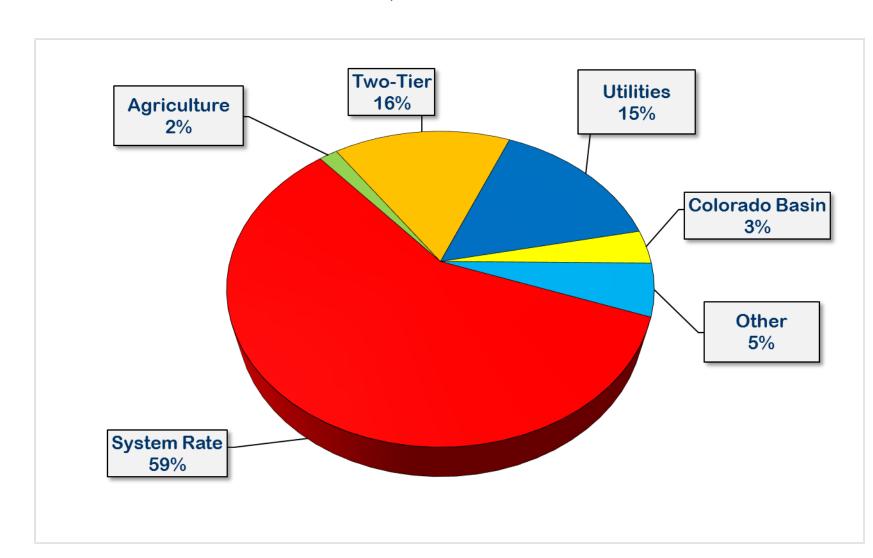
### **FY2018 Operating Programs**

(in thousands)

	FY2018			
	<b>Projected</b>			
<u>Project Name</u>		<b>Expenditures</b>		
Corps of Engineers Pool Rise Feasibility	\$	119		
HB 1437 No Net Loss *		200		
Duck Creek Aquatic Life Assessment *		14		
Environmental Laboratory Assessment		200		
IT Polycom Replacements		160		
LB Floodplain Protection Study Phase 1 & 2 *		189		
Lake Somerville Augmentation Study		80		
PK Dam Fiber Optic Cable Replacement		<b>65</b>		
PK Natural Resource Inventory Study		<b>50</b>		
Williamson County Sludge Disposal Study *		173		
PK Recreational Maintenance		145		
Off Channel Reservoirs		250		
Potential Future Water Management Strategies		500		
Freshwater Mussel Rapid Risk Assessment		<b>550</b>		
Enterprise Financial Software		400		
	\$	3,095		
Less Grant/Stakeholder Funding *		(395)		
Net BRA Expense	\$	2,700		



### FY2018 Long Term Raw Water Sales 626,162 AF





### **System Rate Calculation**

(in thousands)

		FY 2017 Budget		FY 2018 Proposed	
Water	Supply Expenses Water Supply O&M Expenditures Water Supply Debt Service (subject to coverage) Water Supply Debt Service (not subject to coverage) Operating Program Expenditures	\$	32,078 2,537 2,591 1,686	\$	35,407 2,538 2,595 3,095
Less:	Non-System Water Revenues Other Water Supply Revenues Total Non-System Revenues		38,892 7,523 6,364 13,887		43,635 6,858 7,730 14,588
Plus:	Debt Coverage Requirement (1.3 ratio) Rate Stabilization Fund Total Coverage and Reserve		761 1,000 1,761		761 (2,800) (2,039)
	System Water Revenue Requirement	\$	26,766	\$	27,008
	Total System Water Billing Units (acre feet)		371,422		364,572
	System Rate (System Rate Revenue Requirement divided by the number of System Rate Units)	\$	72.00	\$	74.00

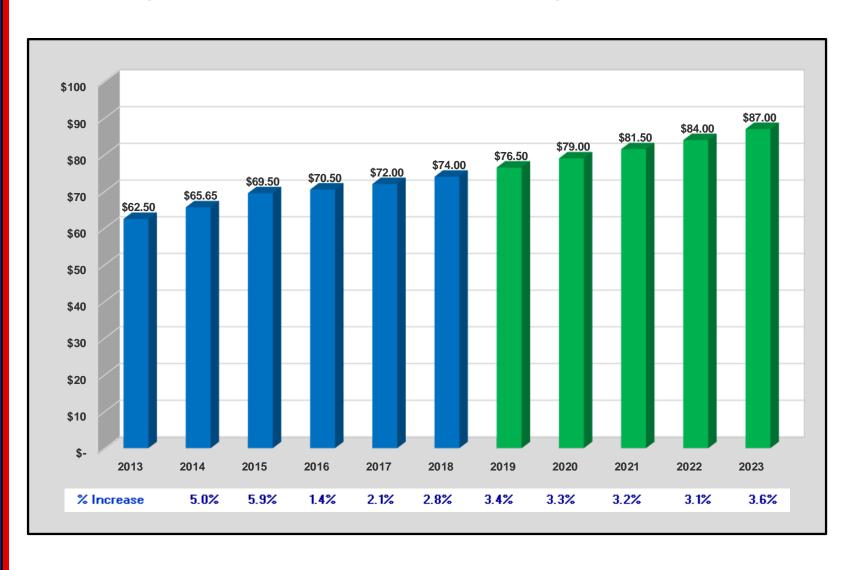


### Long Term Billing Units & Average Price

	FY2017			FY2018			
	Avg			Avg			
	Units	Price	<u>%</u>	<u>Units</u>	Price	<u>%</u>	
System Rate	371,422	\$72.00	58%	364,572	\$74.00	<b>59%</b>	
Agricultural	10,285	\$50.40	2%	10,285	\$51.80	2%	
Two-Tier	98,999	\$17.25	16%	98,999	\$17.37	16%	
Other Fixed Price	33,778	\$18.96	5%	33,778	\$19.02	5%	
Utilities	97,000	\$18.58	15%	97,000	\$18.84	15%	
Colorado Basin	25,000	\$79.72	4%	21,528	\$77.95	3%	
	636,484		100%	626,162		100%	



### **System Rate History/Forecast**





#### **Water Rates**

System Rate	System Water	Agricultural Water
FY2018 Proposed	\$74.00/ac ft (22.7¢ /1,000 gals)	\$51.80/ac ft (15.9¢ /1,000 gals)
FY2017 Current	\$72.00/ac ft (22.1¢ /1,000 gals)	\$50.40/ac ft (15.5¢ /1,000 gals)
Two-Tier	Option	Election
FY2018 Proposed	\$13.52/ac ft (4.1¢ /1,000 gals)	\$27.04/ac ft (8.3¢ /1,000 gals)
FY2017 Current	\$13.43/ac ft (4.1¢ /1,000 gals)	\$26.86/ac ft (8.2¢ /1,000 gals)



### Long-term Water Sales

- System Operation Permit Approved and Drought Study Complete
- District Court challenge in process
- Will be evaluating new long-term sales in 2018
  - Modeling analysis
  - BRA Water sale policy and procedures
  - State Water Plan
  - BRA long-term water request list
- Potential to enter new contracts late 2018 2019



### Interruptible Water Sales

- Updates to Interruptible Water Sale Procedure
  - Multi-year contracts discontinued
  - Priority to requests of 1,000 AF and less
  - Application deadline moved up to August 31
  - Will establish firm deadline for payment and executing contracts
- Board to consider 2018 Interruptible Water in October



#### **Questions and Answers**



