



2019 Water Conservation & Drought Contingency and Emergency Water Management Plan Update

April 02, 2019



Background

- Required by Texas Commission on Environmental Quality (TCEQ) through Texas Administrative Code (Title 30)
- Required by the Texas Water Development Board (TWDB)
- Required by contract as a wholesale water customer of Fort Worth

- Must be consistent with City of Fort Worth plan
- Must be updated every 5 years (Texas Administrative Code)
 - Due to TCEQ and TWDB by May 1, 2019
- Must be Regionally Coordinated

Purpose of Plan Updates

- Tell your community's water story
 - Who uses our water?
 - Do we have enough supply to meet population/demand growth?
 - What have we already accomplished?
 - Are we optimizing our operations?
 - Are we equipped to handle drought?
- Evaluate and formalize any potential changes in water conservation
 - Five- and ten-year total and residential gallons per capita per day (GPCD) goals
- Evaluate and formalize any potential changes in drought management
 - Drought triggers, actions, and targets

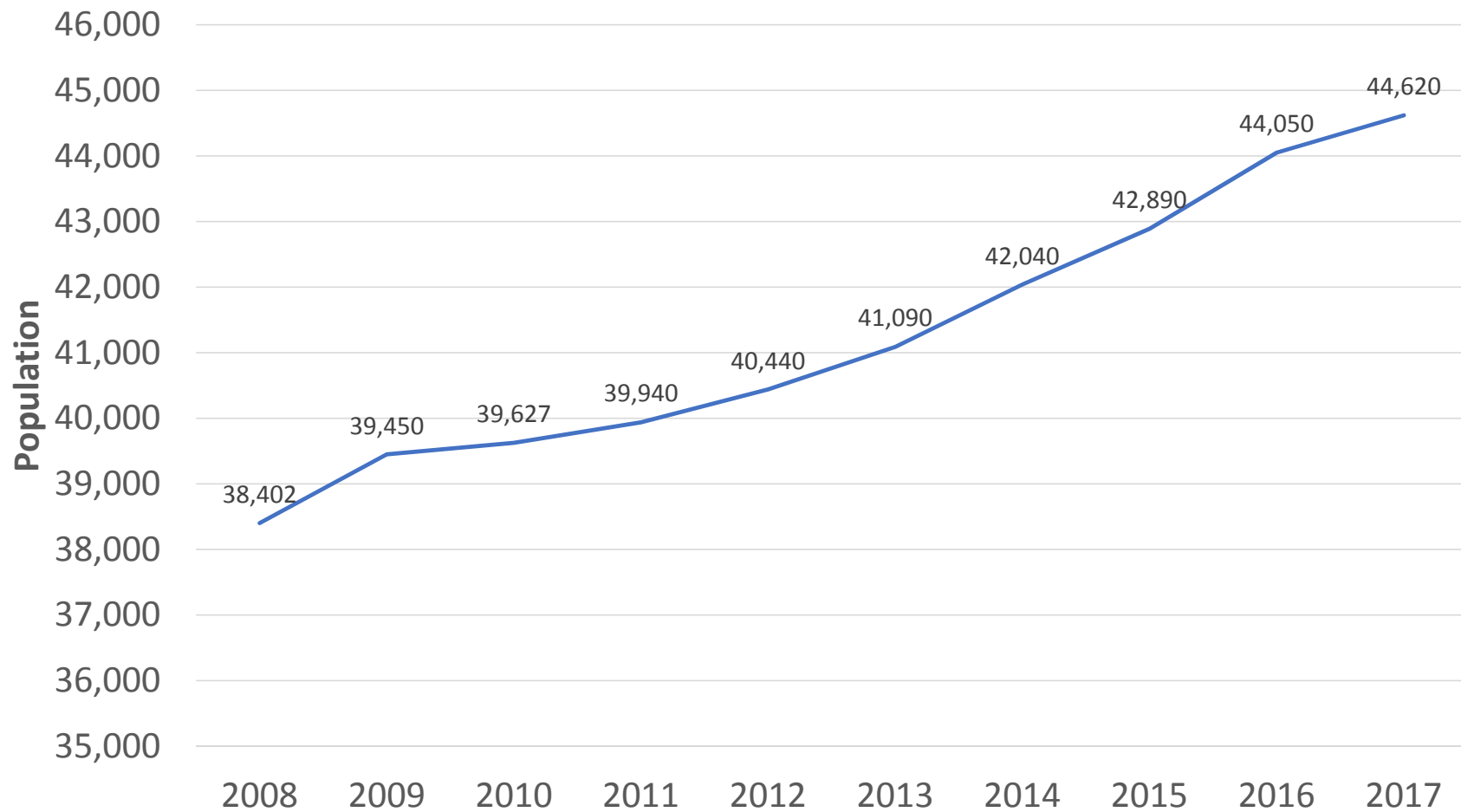
Water Conservation Plan Goals

- Reduce Consumption
- Reduce loss
- Increase efficiency
- Extend Supplies

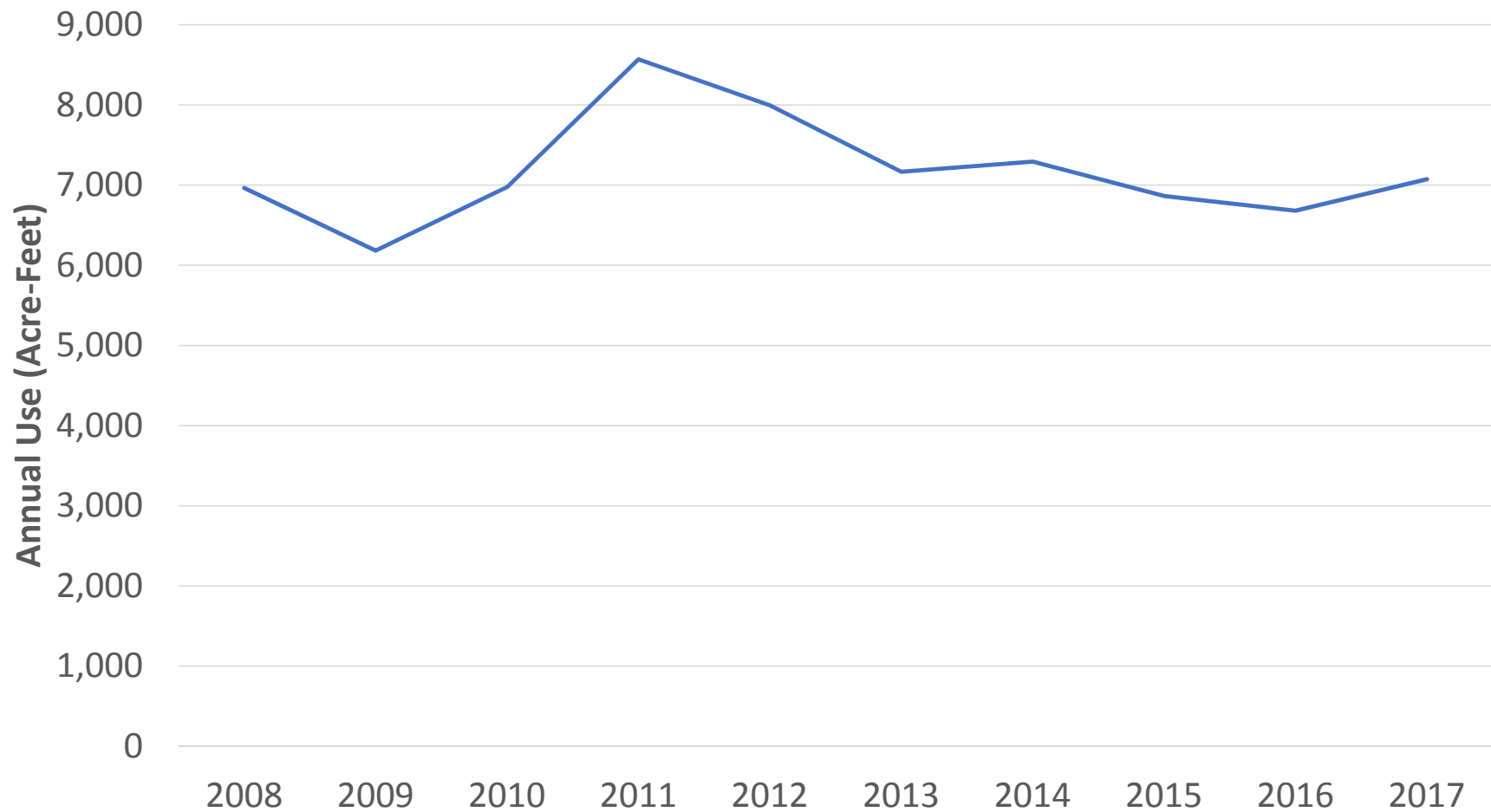
Water Conservation Plan Content

- System Profile
- Water Purchase/Usage/Loss Summaries
- 5 & 10 Year Goals
- Progress Tracking
- Information on metering, leak detection, and water loss
- Letter to Regional Water Planning Group
- Public Input
- Proof of adoption

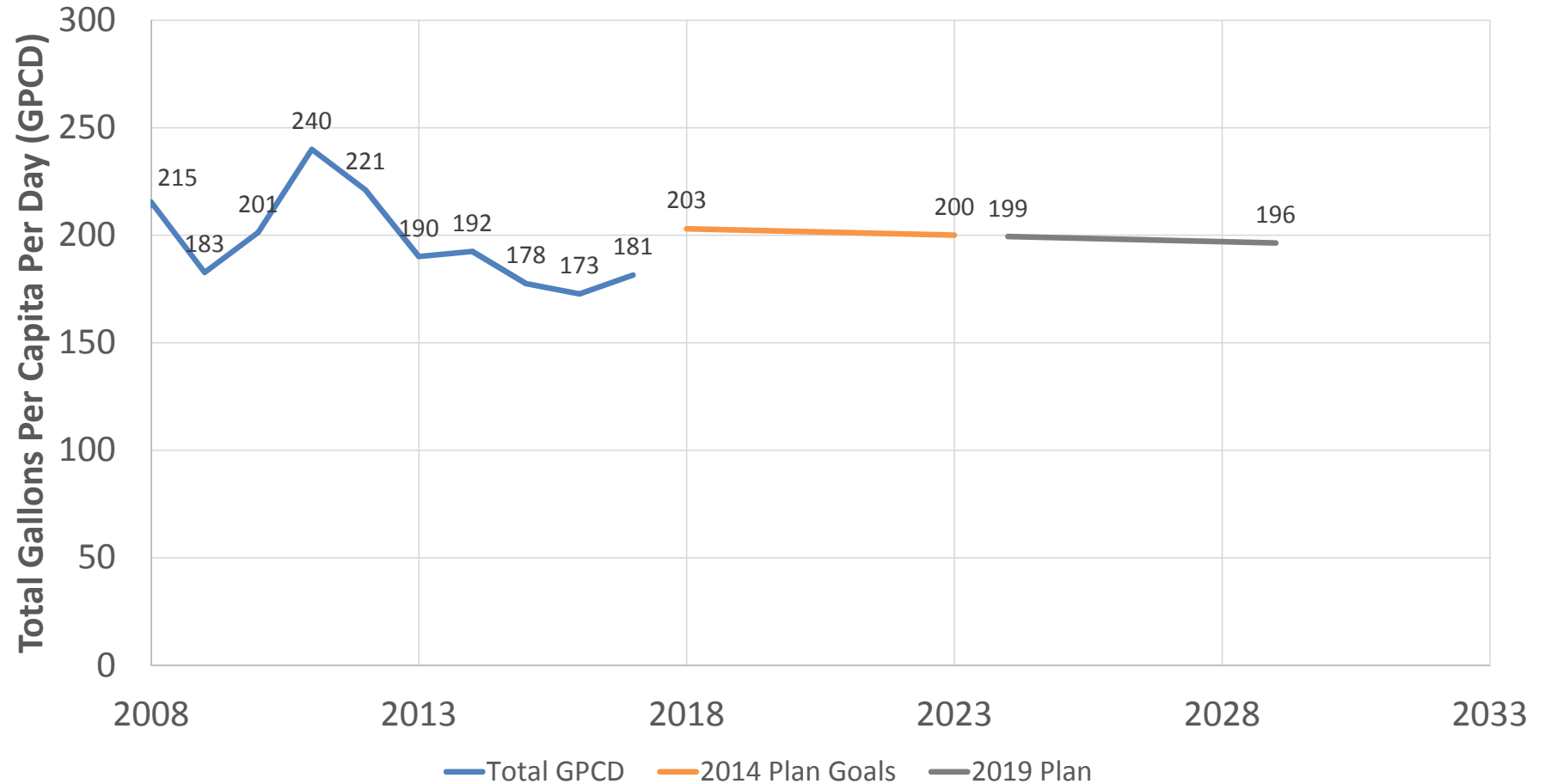
Water Conservation Plan - Utility Profile



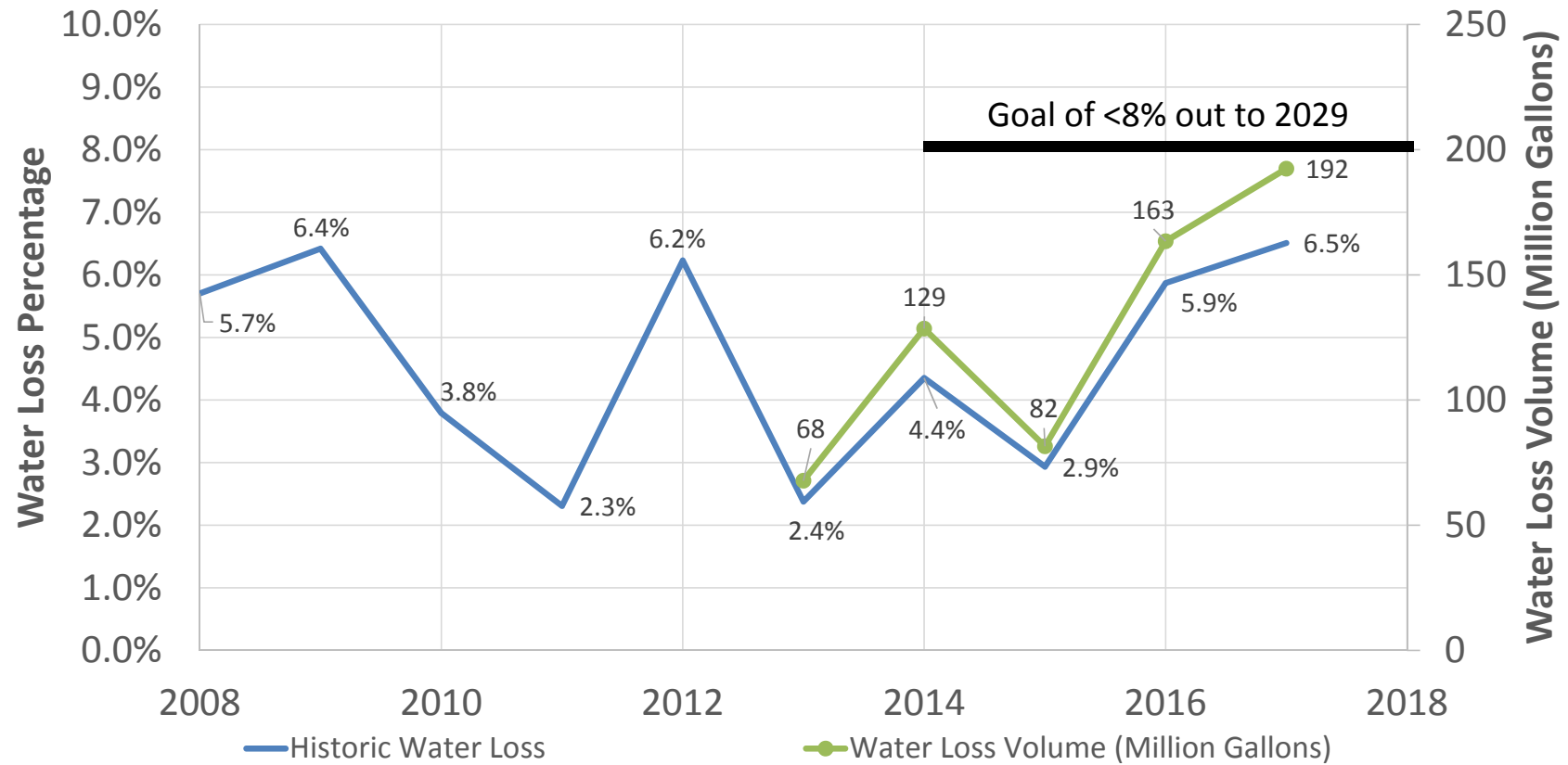
Water Conservation Plan - Utility Profile



Water Conservation Plan GPCD Goals



Water Conservation Plan - Water Losses



Water Conservation Plan Goals

Description	Units	2008-2017 Average	2024	2029
Total GPCD ^a	GPCD	197	199	196
Residential GPCD ^b	GPCD	156	160	158
Water Loss GPCD ^c	GPCD	9	16	16
Water Loss Percentage ^d	%	5%	8%	8%

- a. Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
- b. Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
- c. Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
- d. Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) X 100; or (Water Loss GPCD ÷ Total GPCD) X 100

Water Conservation Plan

Best Management Practices

- 10 a.m. – 6 p.m. no irrigation
- Year round no more than twice per week watering schedule

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
No Outdoor Watering	Non-Residential	Residential (0,2,4,6,8)	Residential (1,3,5,7,9)	Non-Residential	Residential (0,2,4,6,8)	Residential (1,3,5,7,9)

- Prohibit wasting water
- Rain and freeze sensors on new irrigation systems
- Active leak detection and repair program
- Benefits of Automated Meter Infrastructure (AMI)
- Public education
- TRWD weather stations



Drought Contingency Plan Goals

- Minimize the Adverse Affects of a Water Shortage
- Establish Short Term Emergency Water Saving Goals
- Maintain Water Supplies for Domestic, Sanitary and Fire Needs
- Preserve Public Health, Welfare and Safety

Drought Contingency Plan Content

- Public Notification Plan
- Water Restriction Implementation/Termination Criteria
- Reduction Goals
- Restriction Requirements
- Enforcement
- Public Input
- Proof of adoption

Drought Contingency Plan

- Minimal changes to current plan, existing plan was consistent with City of Fort Worth

Stage	CFW Trigger	COK Trigger	Reduction Goal	Irrigation Measure
Stage 1	Reservoir @ 75%	95% for 1 Day	5%	2 x per week
Stage 2	Reservoir @ 60%	95% for 3 Days	10%	1 x per week
Stage 3	Reservoir @ 45%	98% for 1 Day	20%	No outdoor Irrigation

Next Steps

- Public Comment and Review Period
 - April 02 to 16, 2019
- Plan Adoption & Ordinance Update
 - City Council Meeting – April 16, 2019
- Submit to State Agencies and Other Entities
 - May 1, 2019