



# **2019 UPDATES: WATER CONSERVATION PLAN & DROUGHT CONTINGENCY PLAN**

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**HOUSTON WATER**

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# **REQUIRED WATER CONSERVATION PLAN**

- Texas Commission on Environmental Quality &**
- Texas Water Development Board**
- all cities with 3,300+ connections**
- Texas Administrative Code Title 30, Chapter 288**

# REQUIRED WATER CONSERVATION PLAN

- update every 5 years
- 2009, 2014 and 2019
- specific content
- council approval

# PLAN GOALS

- reduce water demand/consumption
- improve water-efficiency
- reduce water loss & water waste
- increase water reuse & recycling
- incorporate plan for drought

# **2019 WATER CONSERVATION PLAN - UPDATES**

- customer use characteristics**
- 5 & 10 year targets**
- implementation plan**
- tracking method**
- water loss program**
- public education programs**

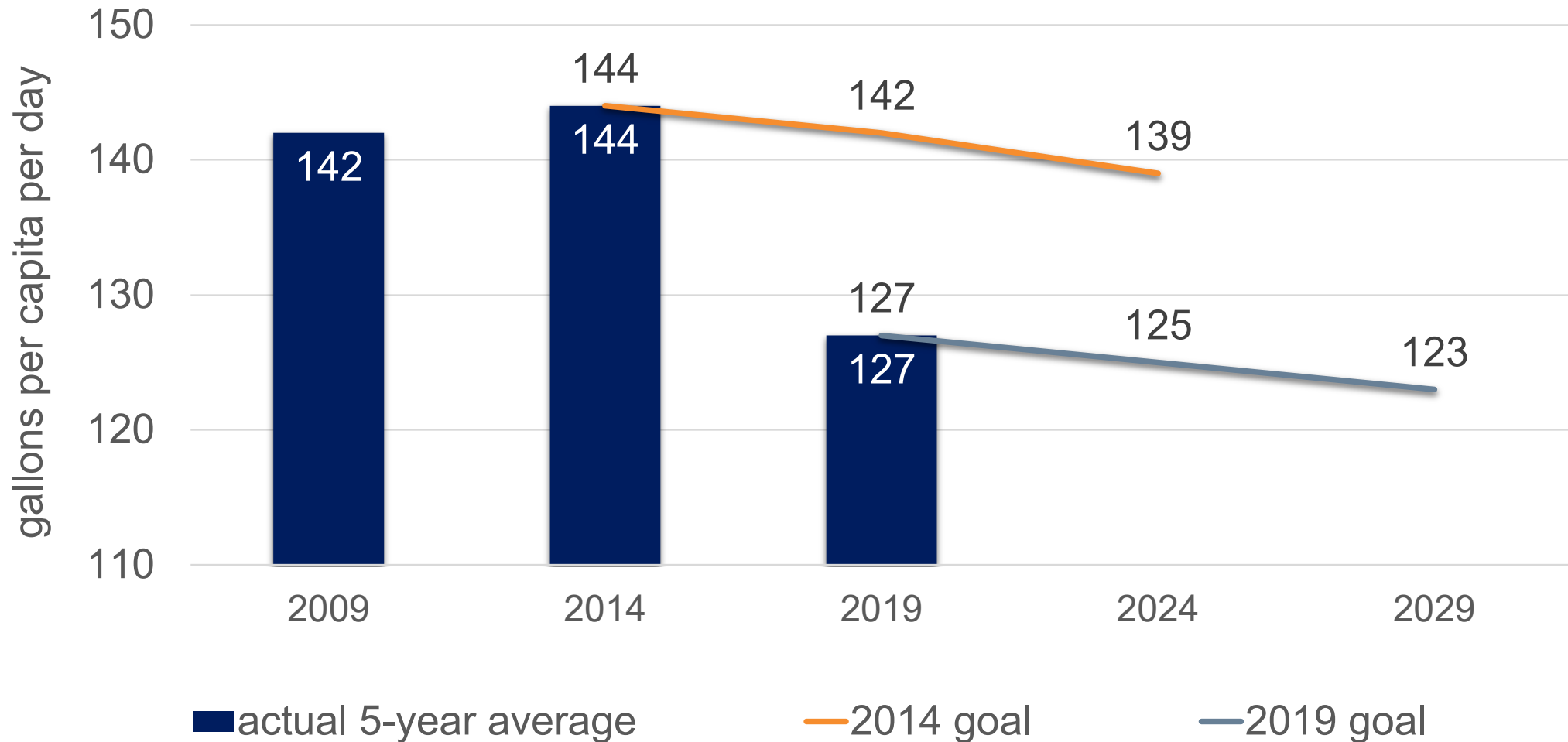
# DROUGHT CONTINGENCY PLAN - NO UPDATES

STAGE	1	2	3	4
GOAL REDUCTION	5%	10%	20%	35%
PARTICIPATION	voluntary	mandatory	mandatory	mandatory
OUTDOOR WATERING RESTRICTION	2x week	2x week	none allowed	none allowed

# 2018 HOUSTON RETAIL WATER CUSTOMERS

CUSTOMER	CONNECTIONS	TOTAL USAGE (GALLONS PER YEAR)	AVERAGE USAGE (GALLONS PER DAY)
commercial- industrial-institutional	55,976	32.1B	88.0M
single family	415,228	26.0B	71.2M
multifamily	15,759	27.4B	75.0M
<b>TOTAL</b>	<b>486,963</b>	<b>85.5B</b>	<b>234.2M</b>

# 5 & 10 YEAR GOAL | 0.32% REDUCTION PER YEAR





# IMPLEMENTATION

## Water Main Replacement Program

- CIP investment (2019-2023)
- \$890M water transmission
- \$110M water distribution

## Water Loss Program

- more accurate metering practices
- improved record-keeping standards
- improved infrastructure

## Consumption Awareness Program

- Automated Metering Infrastructure provides real time customer interface
- [www.houstonwaterbills.houstontx.gov](http://www.houstonwaterbills.houstontx.gov)

# TRACKING EFFECTIVENESS

## Water Conservation Team

- expand the Water Conservation Program
- coordinate efforts with internal, local and regional stakeholders

## American Water Works Association Benchmarking Tool

- compares Houston to other utilities

## Water Conservation Dashboard

- for City and wholesalers
- identify real and hypothetical water savings
- future request for council approval

# **PUBLIC EDUCATION PROGRAMS**

## **WaterWorks Education Center**

- located at Northeast Water Purification Plant
- 31,043 visitors (2014-2018)

## **School Education Program**

- host Institution of Project WET curriculum
- certified more than 300 educators
- 25 school districts, 47 private schools, 8 colleges and 60+ home school students

## **Annual WaterWorks Festival**

- 10,464 attendees (2014-2018)

# SCHEDULE FOR ADOPTION OF PLANS



Look for the e-blast announcement for the public comment period!

# thank you!



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