

RECOMMENDED UPDATE TO CITY OF HOUSTON'S WATER CONSERVATION PLAN

June 19, 2014

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Background

- State of Texas requirements
 - Five-Year Renewal
 - Specific Contents
 - Specified Format
 - City Council Adoption
- Current Plan enacted September 2009



Objectives

- Per Texas Water Development Board*:
 - Strategies for reducing loss or waste of water
 - Improving or maintaining the efficiency in the use of water
 - Increasing the recycling and reuse of water
 - Reducing the consumption of water

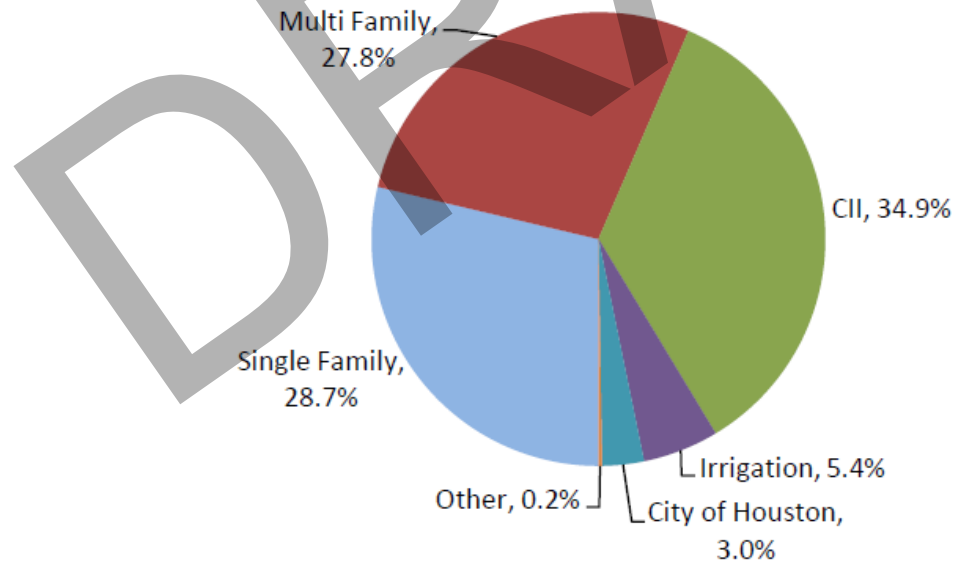
* Similar to definition during 2009 Plan development



Profile of Customer Use

Customer Class	No. of Connections	Total Usage 2012 (billions)	Average MGD
CII	48,000	33	90
Single family	407,255	27	74
Multi Family	14,710	26	71
TOTAL	469,965	86	236

City of Houston Retail Customer Class Demand Shares, 2012





Recommended 5 and 10 Year Water Savings Targets

	Historic 5yr average	Baseline	5yr Goal for year 2019	10yr Goal for 2024
Total GPCD	144	150	148.5	147
Residential GPCD	68	72	72	72
Water Loss (GPCD)	29	29	28.4	27.8
Water Loss (Percentage)	14	14	11.2	10.9



Recommended Implementation Plan

- **Water Main Replacement Program**
- **Mainline Detection Leak Program**
- **Water Loss Plan**
 - Utilize fixed network
 - City Department and Nonrevenue Water Usage
 - Enforcement
- **Meter Replacement Program**



Recommended Implementation Plan

- **Consumption Awareness Program**
 - Develop web-based portal for commercial customers
 - Information campaign
 - More user friendly portal for single-family customers
- **Water Wise Building Standards**
 - Uniform Plumbing Code, Chapter 16
 - Uniform Plumbing Code, Appendix R
 - Building Code 29
- **Public Education and Information Program**
 - Annual Water Festival
 - School Education Curriculum
 - Community Outreach
 - Gulf Coast Water Conservation Symposium



Other Key Features

- Master and Universal Metering
- Non-Promotional Water Rate Structure
- Implementation and Enforcement
- Contract Customer Requirements
- Region H Notification
- Drought Contingency Plan
- Adoption
- Reporting Requirements
- Utility Profile



Moving Forward

- **6/14** – presentation to Transportation, Technology and Infrastructure Committee
- **July 2014** – Earliest date for Council consideration of support resolution
- **September 2014** – Five year deadline for update



Summary of Updates

- Five and Ten year goals
- Water Loss Program
- Consumption Awareness Program
- Water Wise Building Standards

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Questions

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