



# Conservation and Reuse Water Savings (Task 3.2)

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# Agenda

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- Introductory Comments
- Region C – Reuse Activities
- Region C – Water Conservation Activities
- Region C – Expected Water Savings
- Summary

# Reuse Activities

# Region C Water Reuse Progress

## ■ Major Reuse Advancements Since 2006 Plan

### ■ Key reuse activities

- TRWD's Richland Chambers Reuse Water Supply
- NTMWD's East Fork Raw Water Supply
- Upper Trinity Regional Water District – Lake Lewisville Water Supply
- Trinity River Authority return flow permits
- Dallas return flow contracts

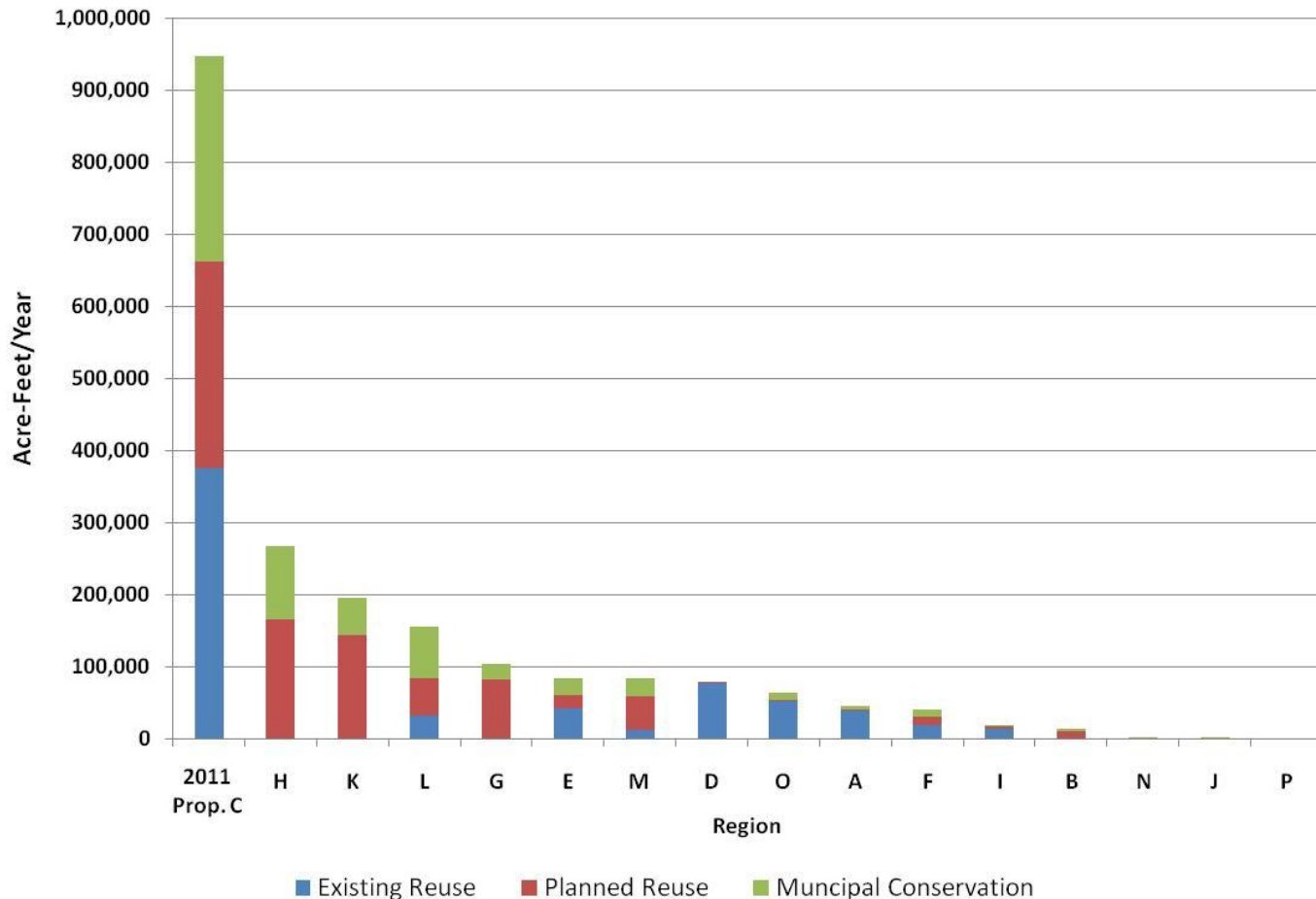
### ■ *Projects under Construction*

- *Fort Worth Village Creek Reclaimed Water Delivery System (startup anticipated by end of 2010)*

# Region C Water Reuse

## ■ Region C Ahead of Rest of State in Reuse

2007 State Water Plan - 2060 Projections



# Region C Water Reuse Progress

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Region C reuse represents major water supply

- Greater than 200,000 acre-feet/year of existing reuse available to Region C in 2010 <sup>(1)</sup>
- Reuse (existing and planned) anticipated to grow to almost 665,000 acre-feet by 2060 <sup>(1)</sup>

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<sup>(1)</sup> Based on projections developed during 2009.

# Water Conservation Activities

# Region C Water Conservation

## Progress - Conservation Measurement Issues

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- Quantification of water conservation savings achieved is difficult
  - Appropriate data are not always collected and not consistently utilized
  - Long timeframes required to model water demand fluctuations
- Normalized comparisons of GPCD, between utilities or regions are difficult to make accurately

# Region C Conservation Savings Measurement Approach

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- Consider implementation of water conservation measures as being significant even though accurate savings cannot be calculated
- Consider calculated municipal GPCD, recognizing limitations, for assessing relative water savings

# Region C Water Conservation Progress

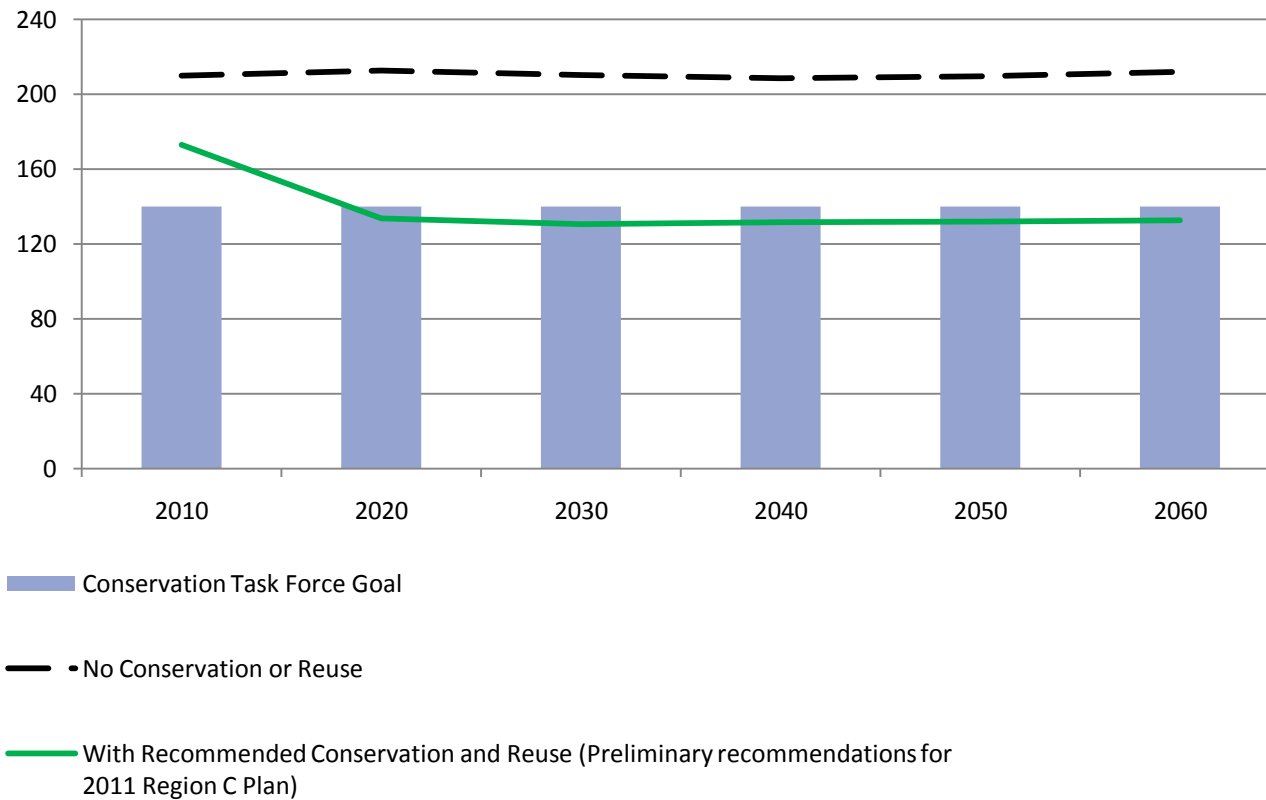
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- Region C has experienced regionwide implementation of water conservation strategies
- Basic and additional strategies
  - Various strategies selected for implementation by different municipalities
- Key strategies employed
  - Regional coordination for public awareness
  - Growing implementation of time of day irrigation restrictions
  - Water Conservation Symposium (3rd Annual)

# Region C Updated 2011 Municipal GPCD

Condition	Projections (municipal gpcd)					
	2010	2020	2030	2040	2050	2060
No Conservation or Reuse	210	213	210	208	210	212
With Recommended Conservation and Reuse	173	134	130	132	132	133

# Region C Municipal GPCD Projections





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# Expected Water Savings

# Region C Expected Water Savings (Preliminary 2011 Region C Plan)

- Municipal GPCD Reduction<sup>(1)</sup>

2010	210 GPCD
2060	133 GPCD
- Reduction of municipal water demand  
Reduction = 30 to 35%

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(1) Based on preliminary recommendations of conservation measures, including reuse, being considered by Region C Regional Planning Group.

# Summary

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- Region C leader in the state in reuse
- Region C water conservation implemented strategies are effective
- Region C implemented and planned water conservation measures, including reuse, projected to reduce water demands from slightly greater than 200 gpcd to about 130 gpcd (preliminary 2011 Region C Plan)