



# **Public Hearing on 2011 Initially Prepared Region C Water Plan**

**May 25, 2010**



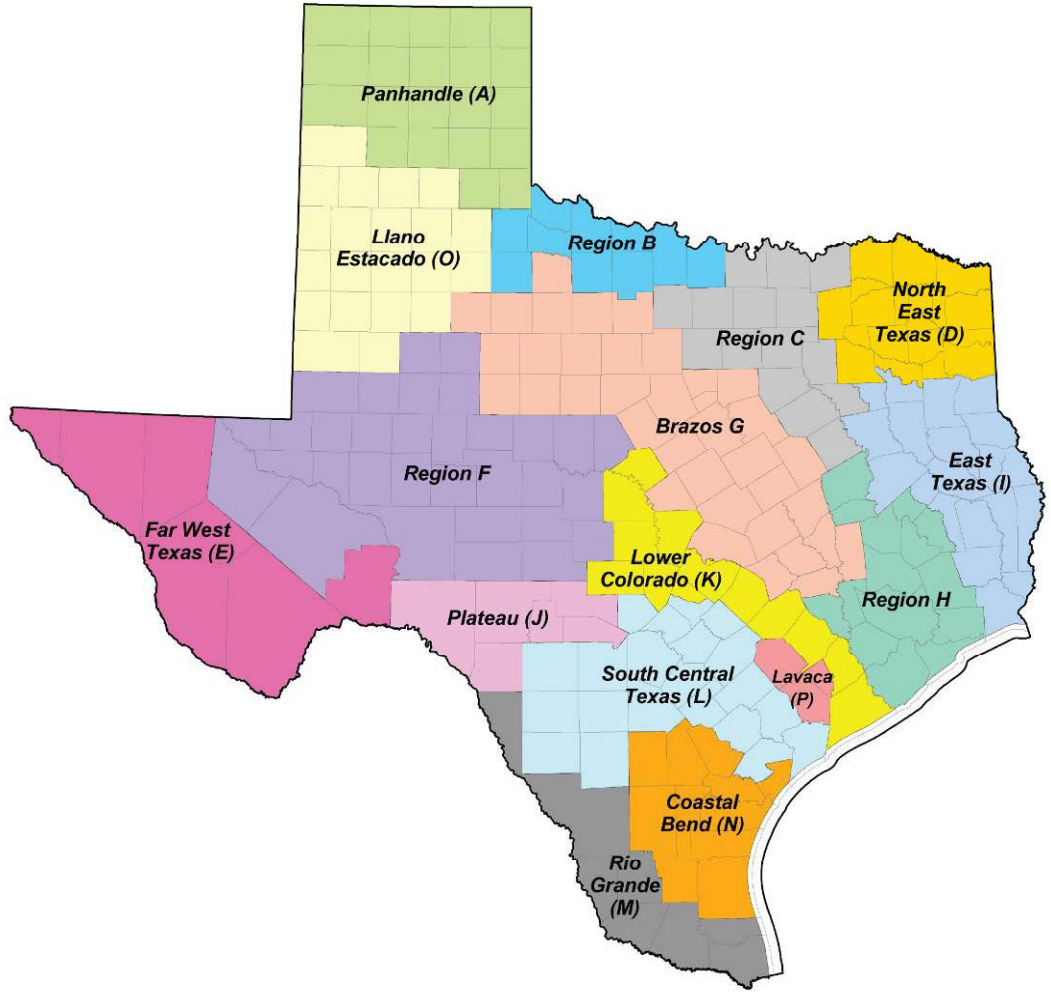
# Introduction

- The Regional Water Planning Process
- 2011 Region C Water Plan
- Plans for Major Providers

# Regional Water Planning Process

- Senate Bill 1 - Tx. Legislature in 1997
- Spurred by 1996 drought
- “Bottom up” water planning process
- Texas Water Development Board
  - Adopted rules
  - Set out 16 regions
  - Named initial planning group members
- Plans every 5 years
- Finishing third round of planning

# Regional Water Planning Areas



# Regional Water Planning Process

- Local and regional decision-making
- Open to public
- Statutory interests:
  - Public
  - Counties
  - Municipalities
  - Industries
  - Agriculture
  - Environment
  - Small business



- Electric generating utilities
- River authorities
- Water districts
- Water utilities

# Regional Water Planning Process

- 50-year planning period (2010 – 2060)
- Project population and water demand
- Determine existing supply
- Evaluate need for additional water
- Recommend strategies

## 2011 Region C Plan

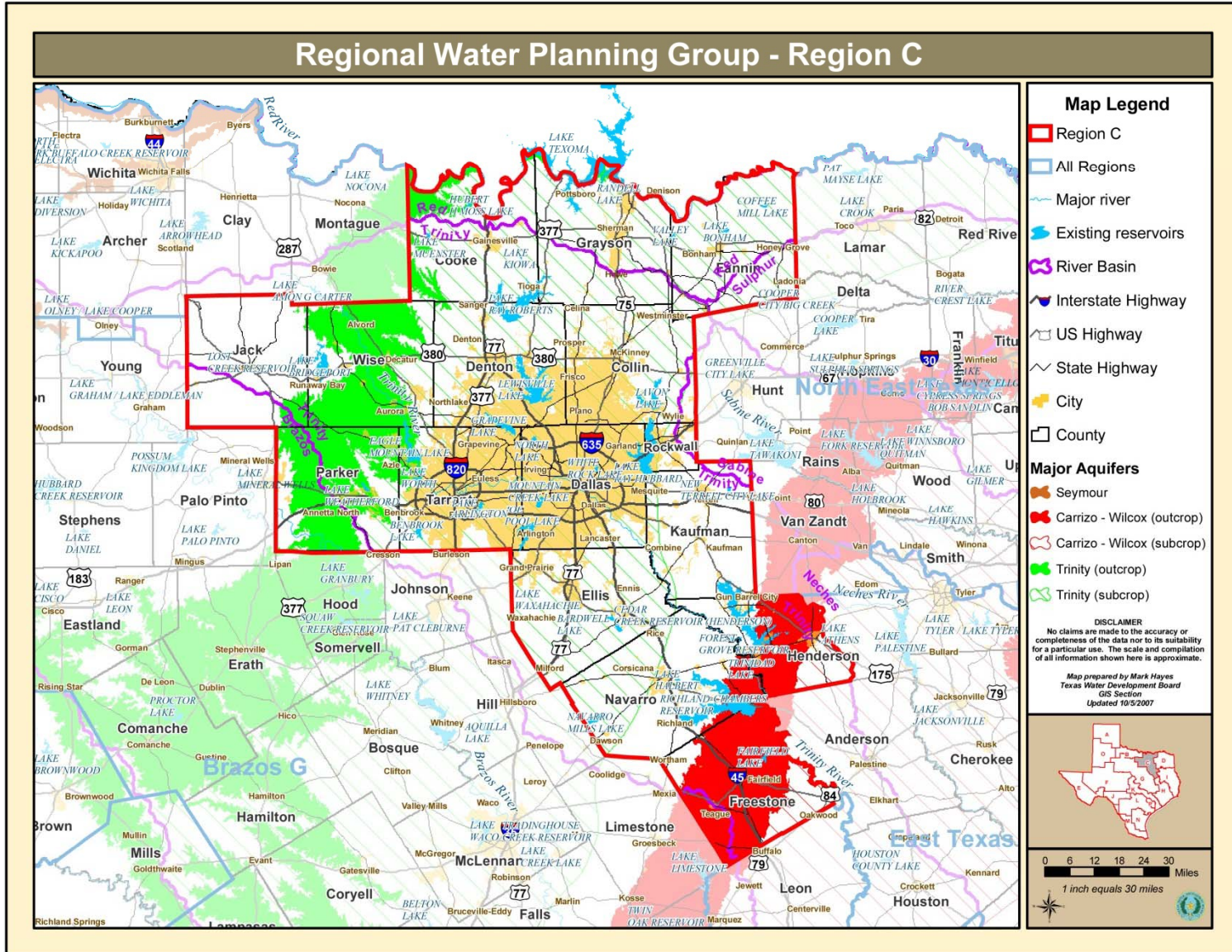
- Initially prepared plan out for comment.
- Comment period is through August 1st.
- Final Plan due to TWDB October 1st.

# Water Supply for Region C

- Region C – 16 county area
- Includes Dallas, Tarrant, Denton, and Collin Counties
- Red River is northern boundary
- 1/4 of Texas' population
- 1/12 of Texas' water



# Region C



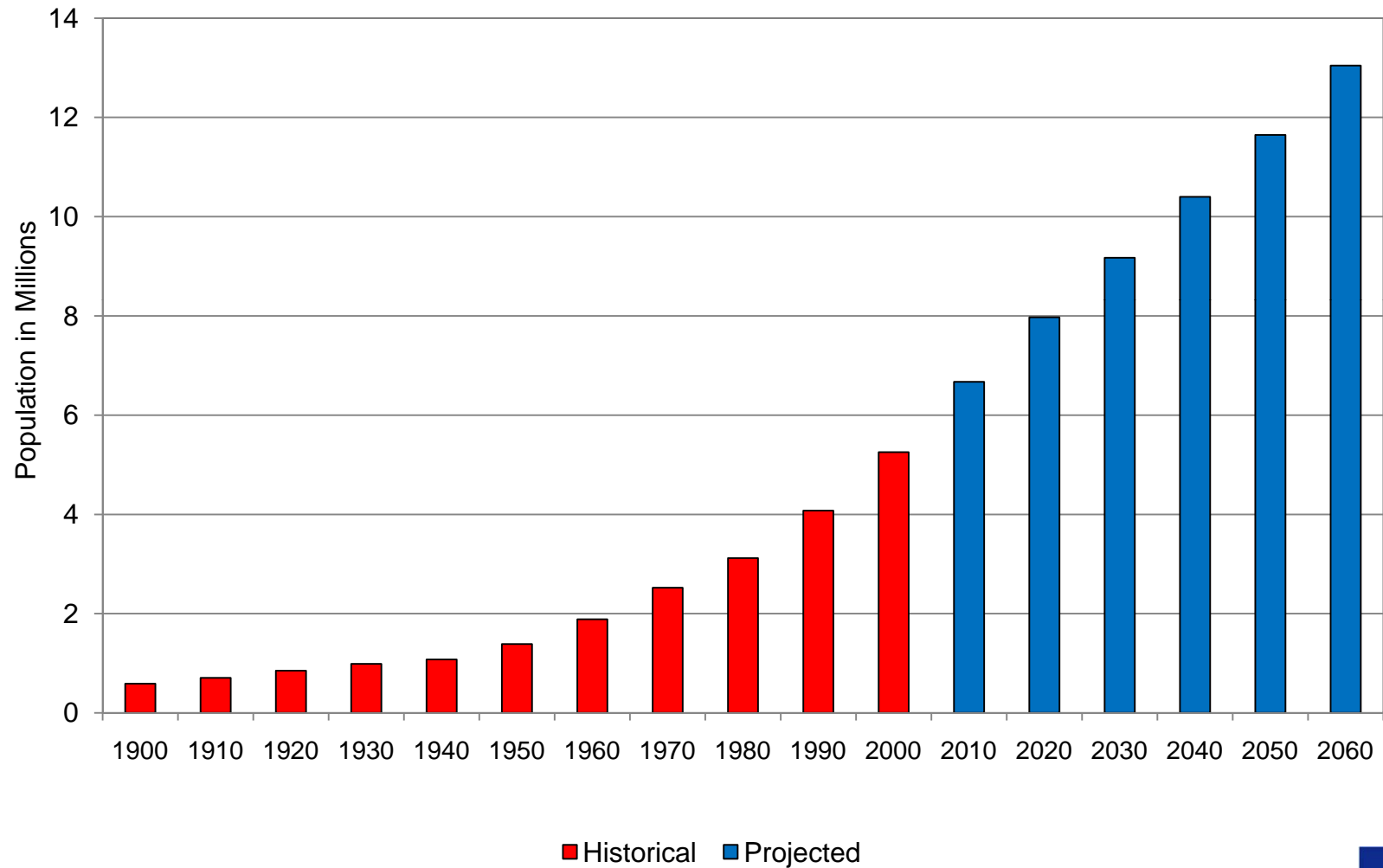
Map updated by Mark Hayes, Texas Water Development Board, Planning Division, GIS Section (10/07) L:\projects\RI\OITS\carchuleta\Maps\_ArcGIS\MXDs\Regional Water Planning Area Maps



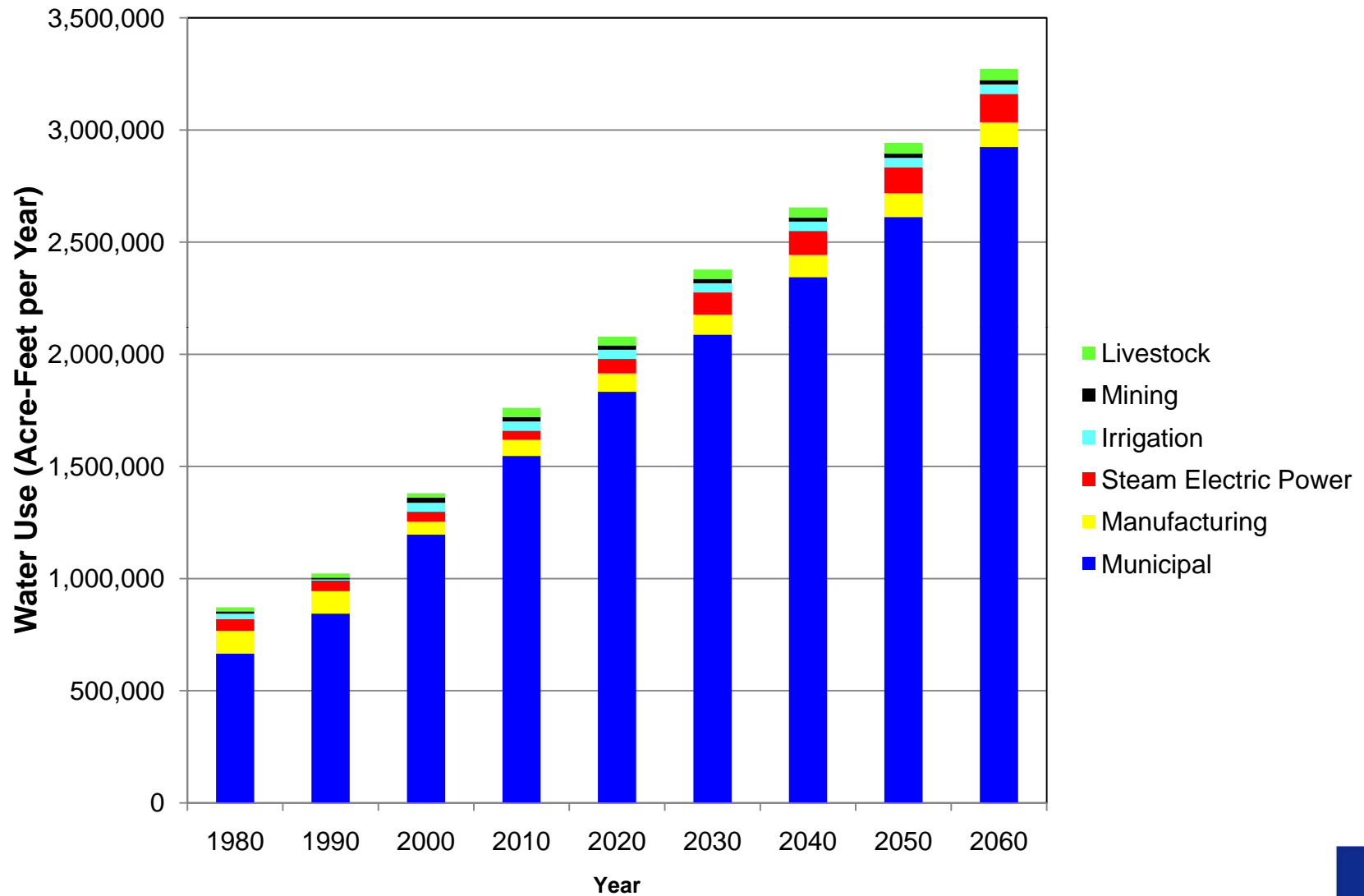
# Region C Water Supplies

- 90% is surface water
- 41 wholesale water providers and 357 water user groups
- 3 largest wholesale providers supply 85%

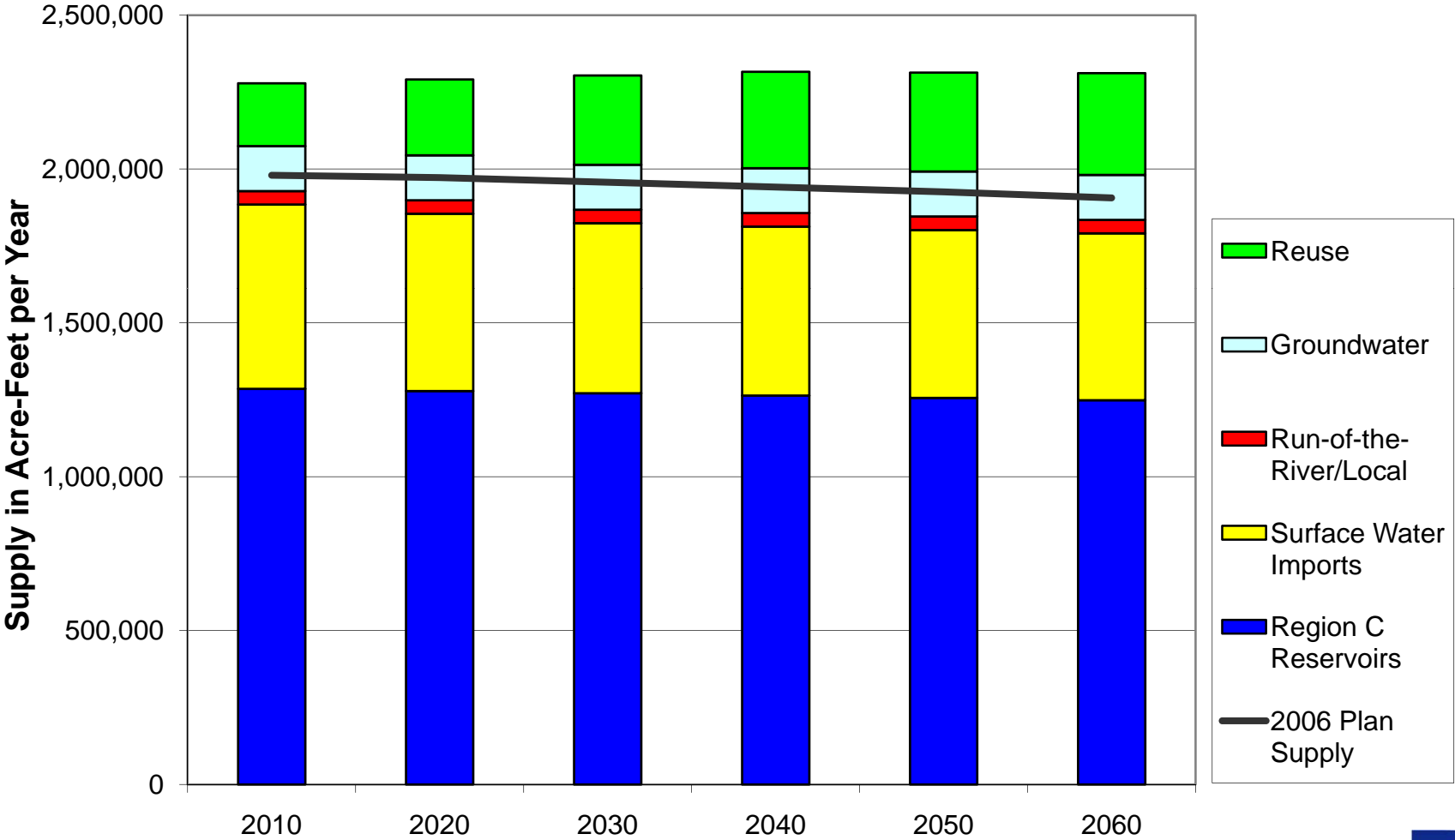
# Region C Population



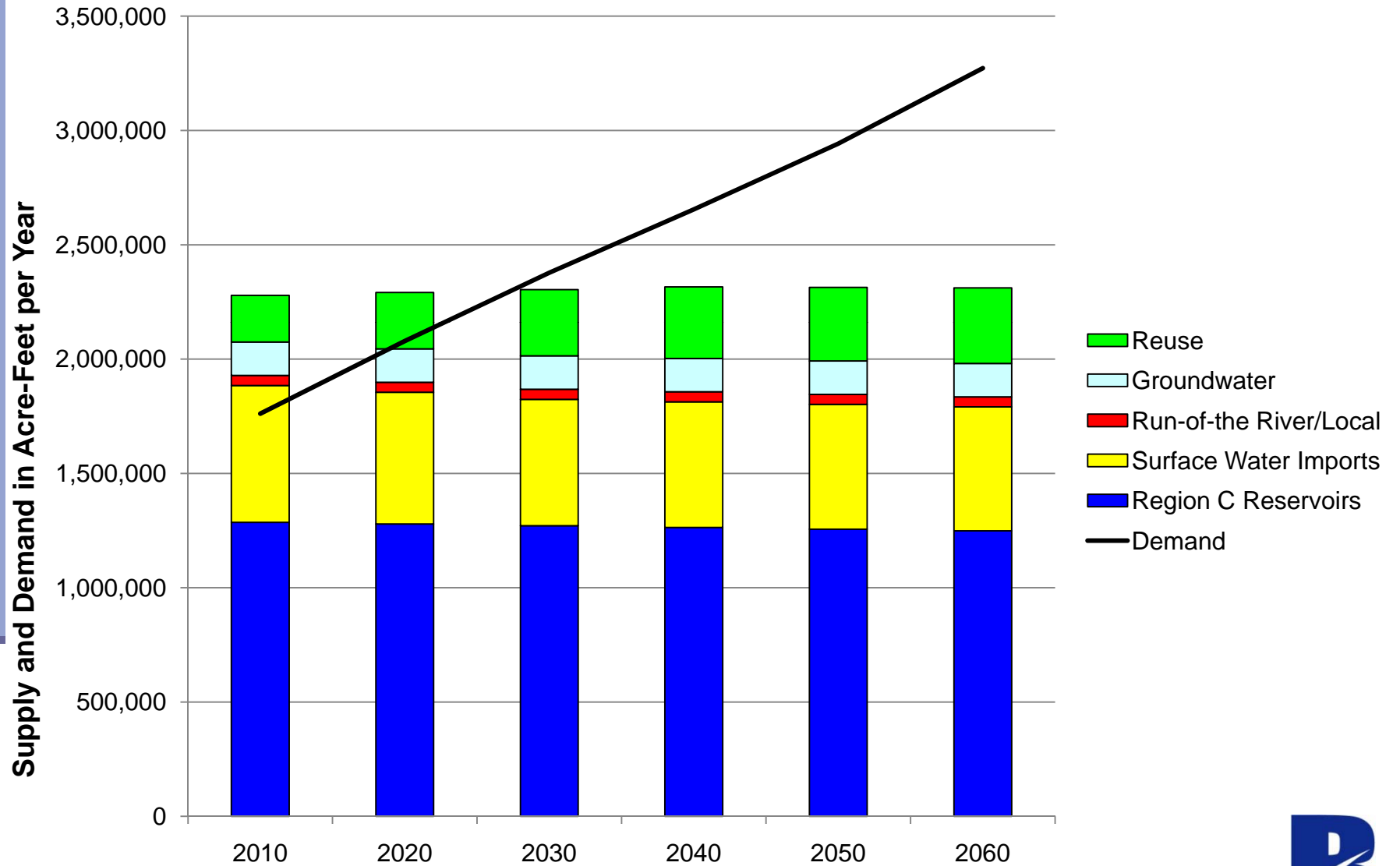
# Region C Water Demands



# Region C Supplies



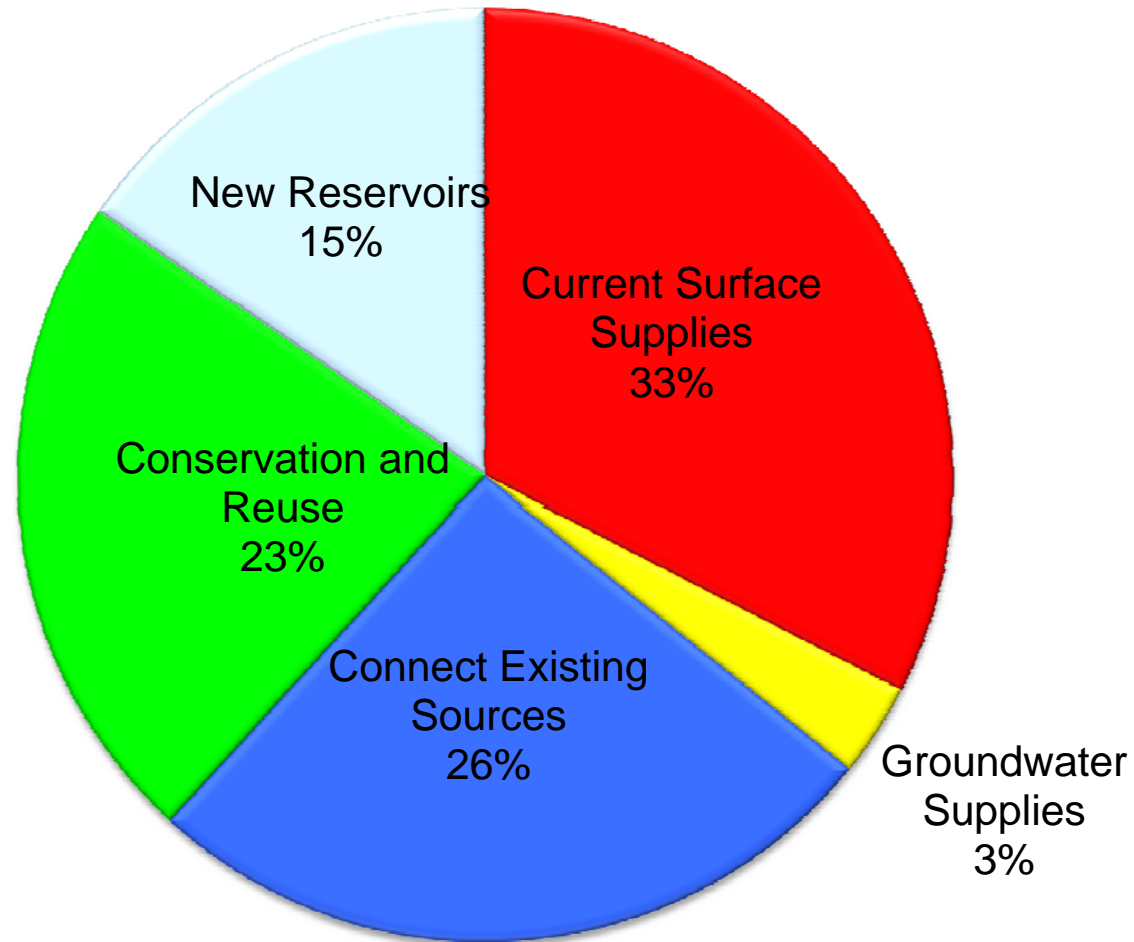
# Region C Supply - Demand



# Region C Plan – Big Picture

- Maintain Reserve Supplies
  - Faster growth than projected
  - New critical drought
  - Inability to complete strategies
- Increased Surface Water Supplies
  - Growing counties
  - Demand outstripping groundwater supplies
- Reliance on Major Suppliers
- Focus on Conservation and Reuse
  - 23% of supply in 2060

# Region C Plan – Big Picture



# Region C Plan – Big Picture

- Total Cost - \$18.3 Billion
  - \$13.5 billion from 3 largest suppliers
- Total New Supply – 2.36 Million Acre-Feet per Year
  - 1.813 million acre-feet per year from 3 largest suppliers

# Largest Region C Suppliers

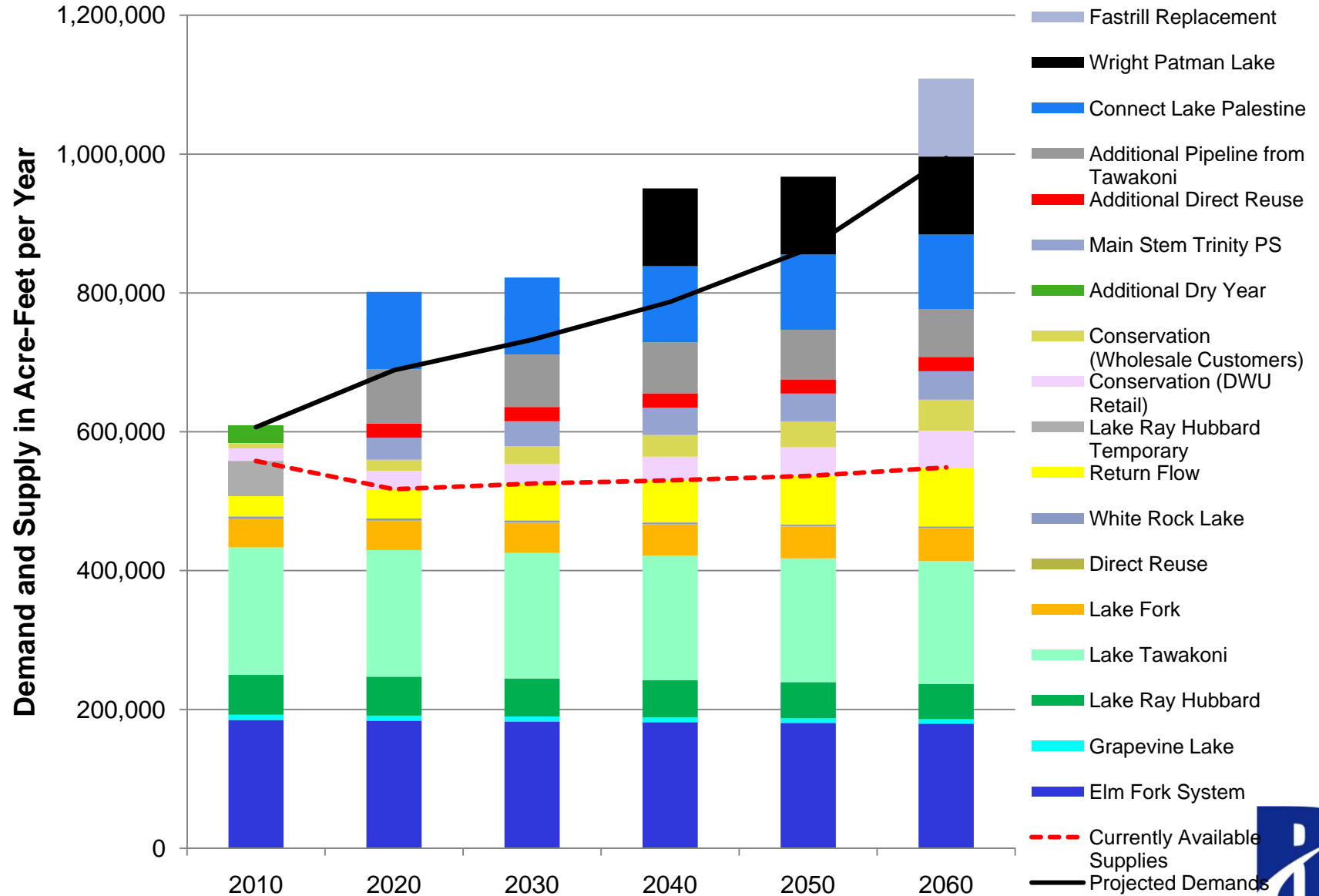
## ■ Dallas

- Supplies many other communities
- Current Supply – Lakes Ray Roberts, Lewisville, Ray Hubbard and Tawakoni; Reuse

## ■ Planned supplies

- Conservation
- Reuse
- Existing Lakes Fork, Palestine, Wright Patman
- Replacement for Lake Fastrill

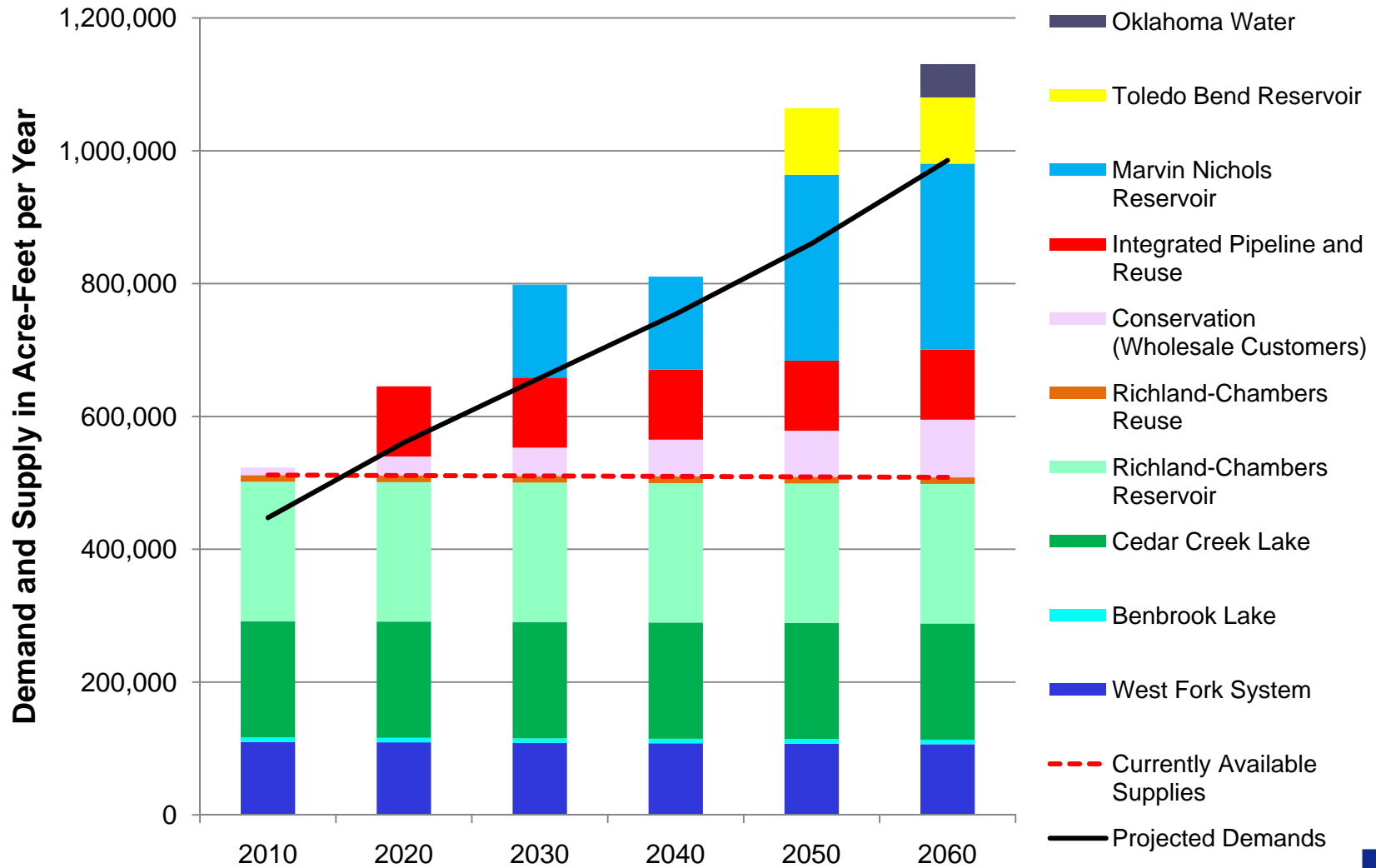
# Dallas' Planned Supplies



# Largest Region C Suppliers

- Tarrant Regional Water District
  - Supplies Fort Worth, Arlington, many others
  - Current Supply – Lakes Bridgeport, Eagle Mountain, Cedar Creek, and Richland-Chambers; Reuse
  - Planned supplies
    - Conservation
    - Reuse
    - Existing Toledo Bend Lake and Oklahoma supplies
    - New Marvin Nichols Reservoir

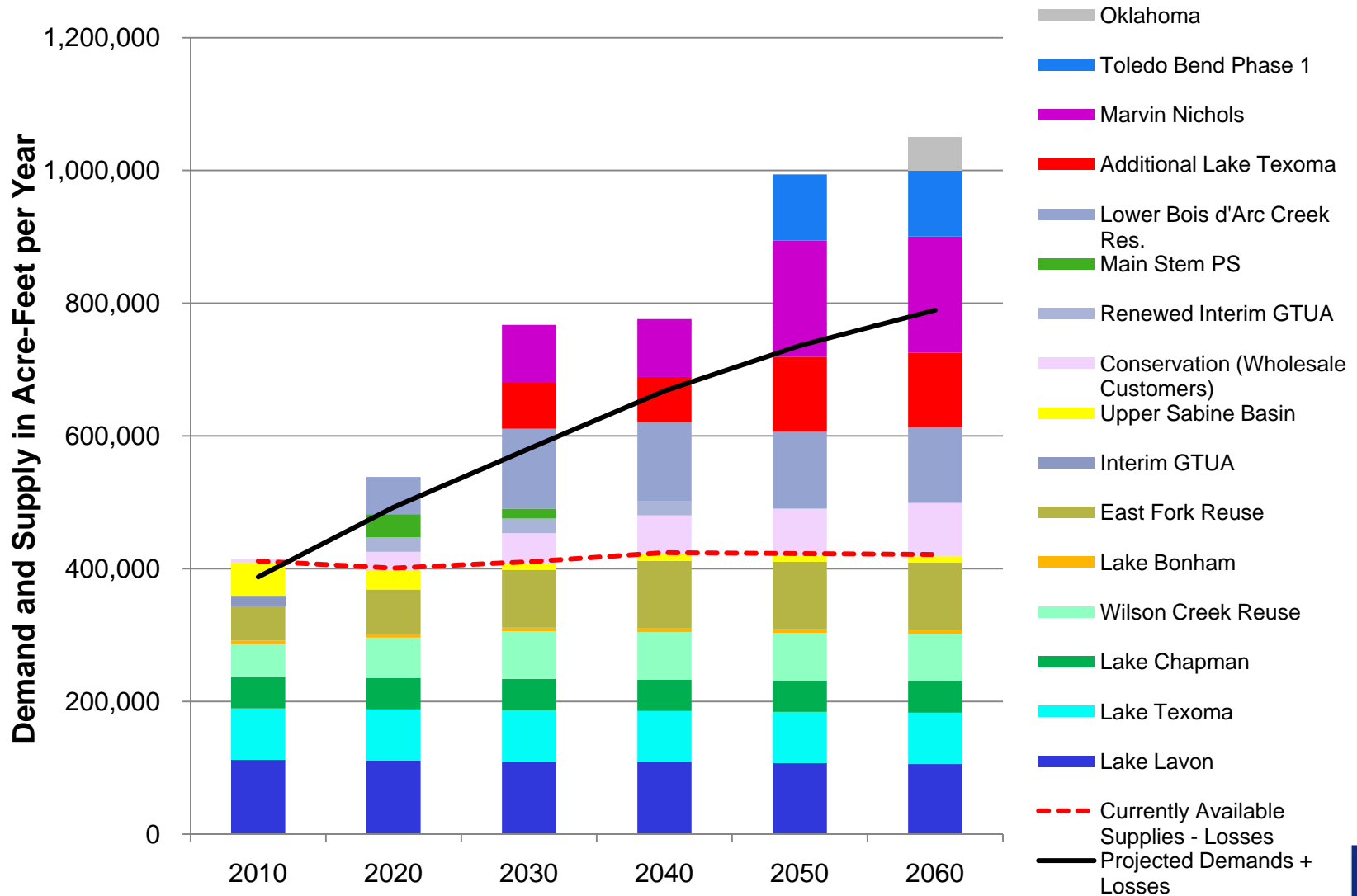
# TRWD's Planned Supplies



# Largest Region C Suppliers

- North Texas Municipal Water District
  - Supplies communities north and east of Dallas
  - Current Supply – Lakes Lavon, Chapman, and Texoma and reuse
  - Planned supplies
    - Conservation
    - Additional reuse
    - Existing Toledo Bend, Texoma, Oklahoma water
    - New Marvin Nichols and Lower Bois d’Arc Reservoirs

# NTMWD's Planned Supplies



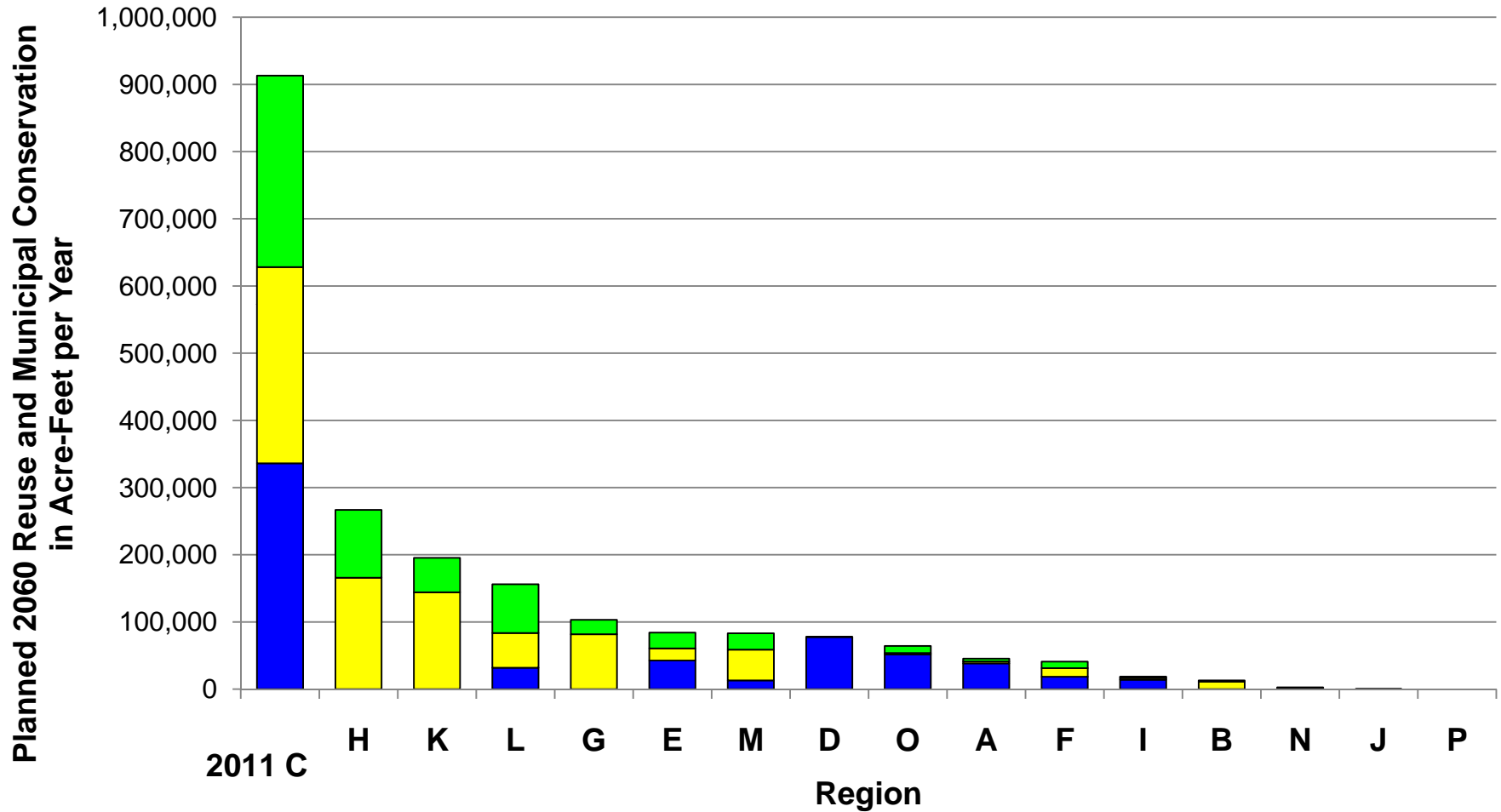
# Implementing Water Conservation – Major Projects in Region C

- Conservation awareness programs
  - Dallas Water Utilities and Tarrant Regional Water District: “Save Water, Nothing Can Replace It”
    - DWU: 12 billion gallons saved in 2006
    - TRWD: 10 billion gallons saved in 2006
  - North Texas Municipal Water District: Water IQ Program
    - NTMWD: 10 billion gallons saved in 2006

# Implementing Water Reuse – Major Projects in Region C

- Reuse projects totaling more than 600,000 acre-feet/year developed or in-progress for Region C, including:
  - North Texas MWD East Fork Raw Water Supply Project
  - North Texas MWD Wilson Creek reuse
  - Tarrant RWD George Shannon Wetlands
  - Dallas contract for return flows
  - Dallas reuse permits
  - Trinity River Authority reuse permits
  - Upper Trinity Regional Water District reuse of Lake Chapman water
  - Garland/Forney reuse for power plant

# Planned 2060 Reuse & Municipal Conservation



Existing Reuse    Planned Reuse    Municipal Conservation



# Closing Thoughts

- Details on all Water User Groups in IPP
- IPP available for Public review
  - [www.RegionCwater.org](http://www.RegionCwater.org)
  - All County Clerk offices
  - At least one major Public Library in each County
- Public comment deadline is August 1st
- Written comments submitted to [RegionCcomments@freese.com](mailto:RegionCcomments@freese.com)



# Public Comments

# Contact Info

Submit written comments to:

[RegionCcomments@freese.com](mailto:RegionCcomments@freese.com)

Region C Web Site

<http://www.regioncwater.org>

Texas Water Development Board Web  
Site

<http://www.twdb.state.tx.us/home/index.asp>

