

Regional Water Planning Metroplex Mayors Association

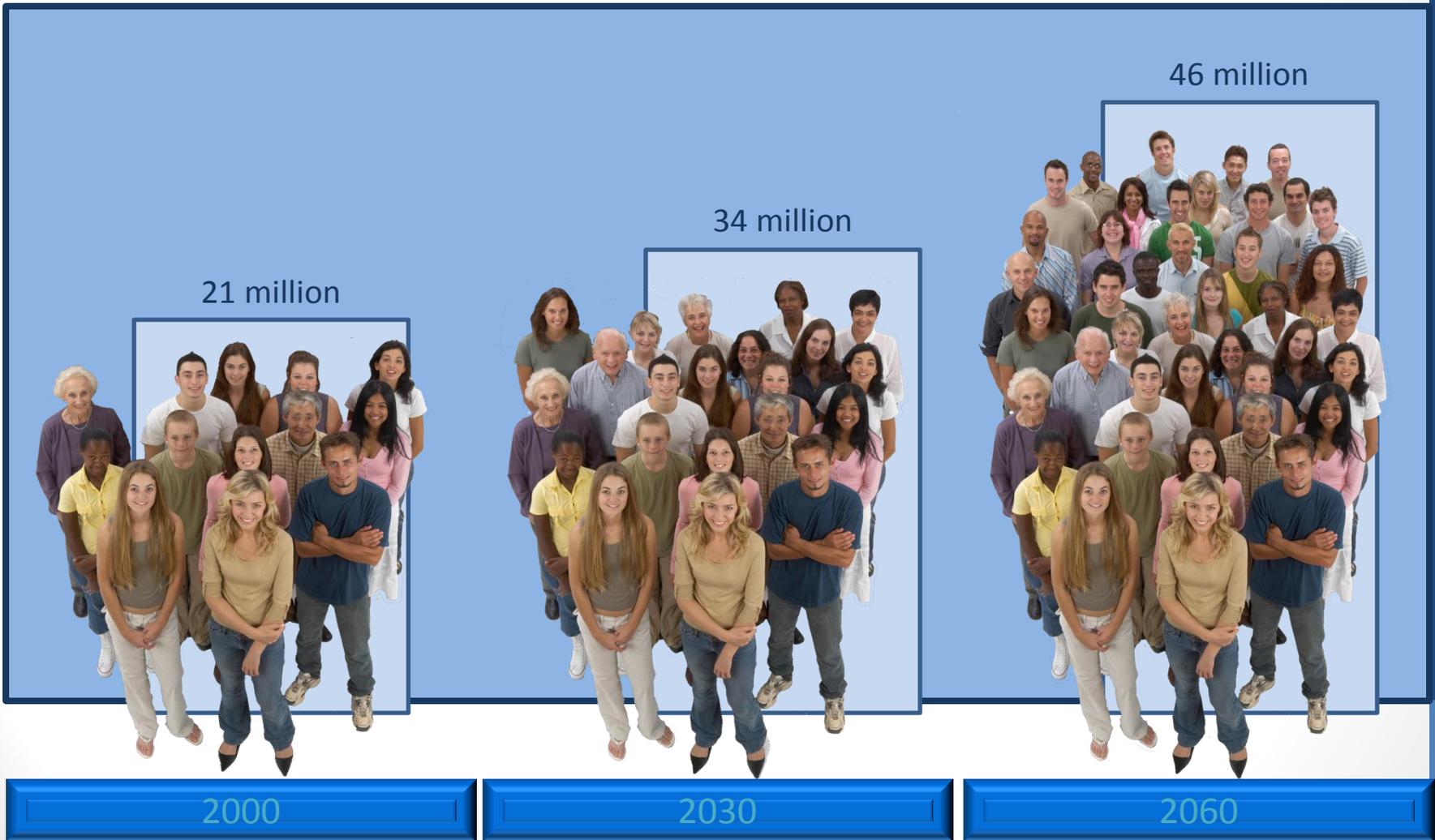
April 10, 2012

WATER,
Not oil, is the
lifeblood of Texas

James Michener,
Texas: A Novel

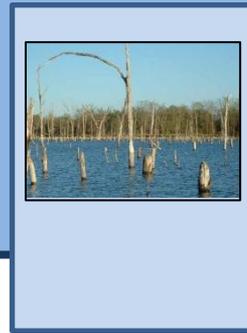
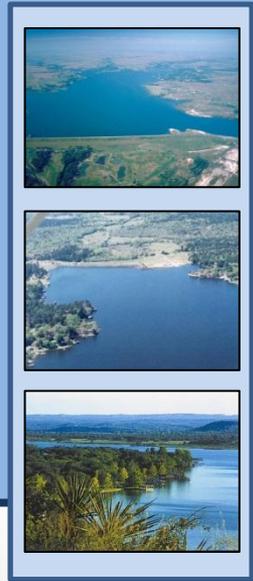


Texas Population Projections



Timeline of Water Development

2/3 of current water storage built since 1950s



1950s

1960s

1970s

1980s

1990s

2000s

Background – Regional Water Planning Areas

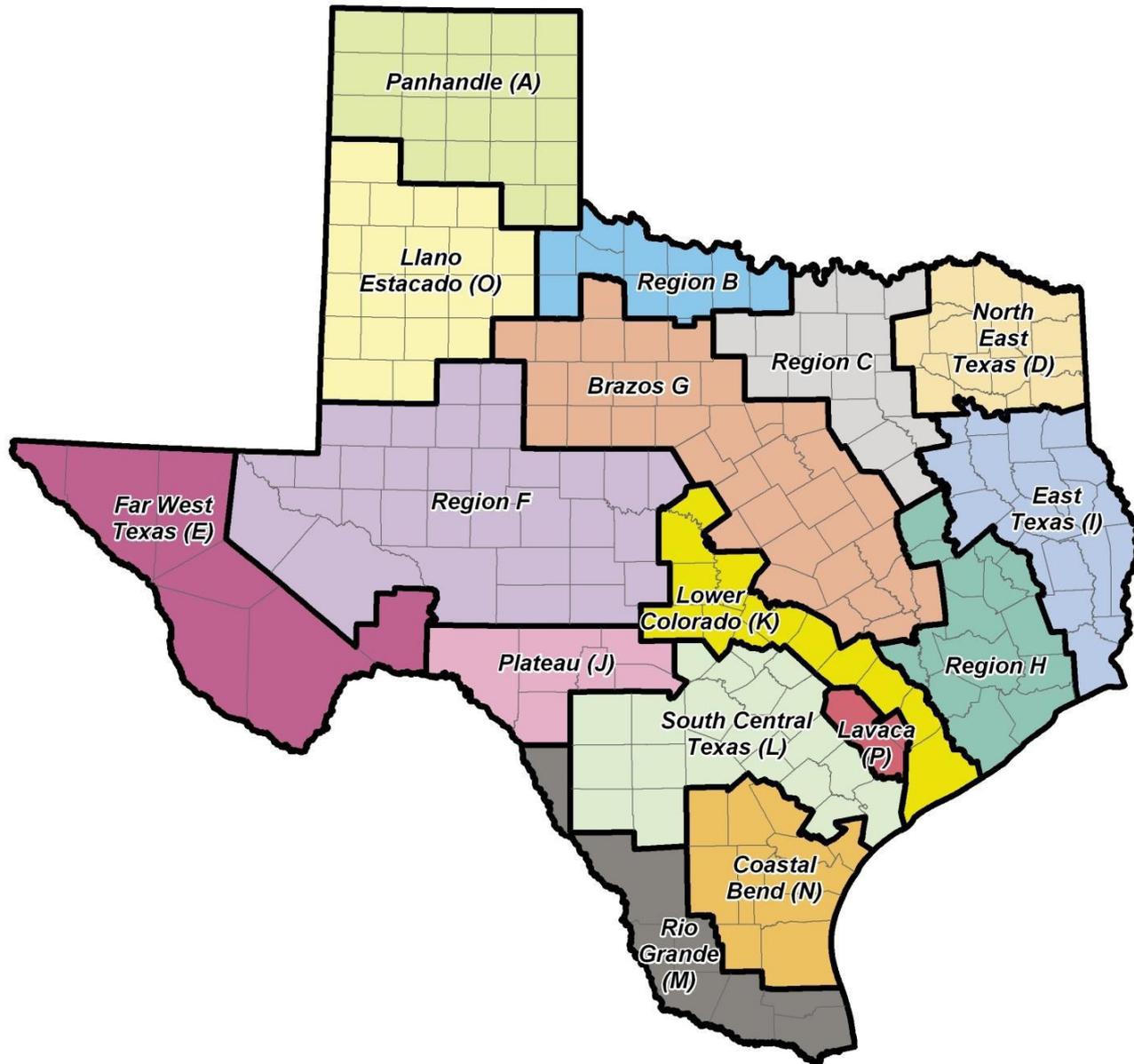
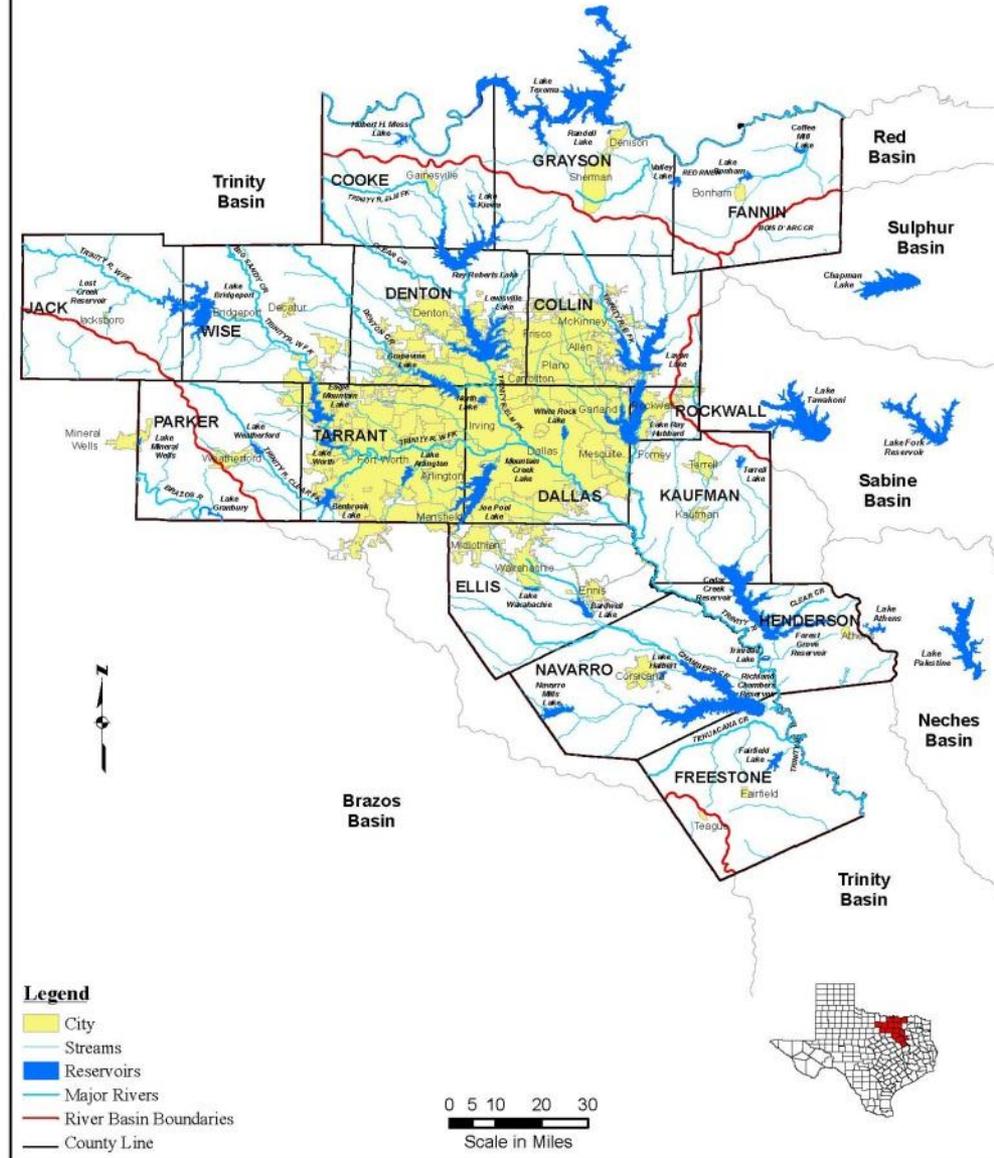


Figure ES.1
Region C and Major Outside Water Supplies
Currently Used in Region C



Region C Overview

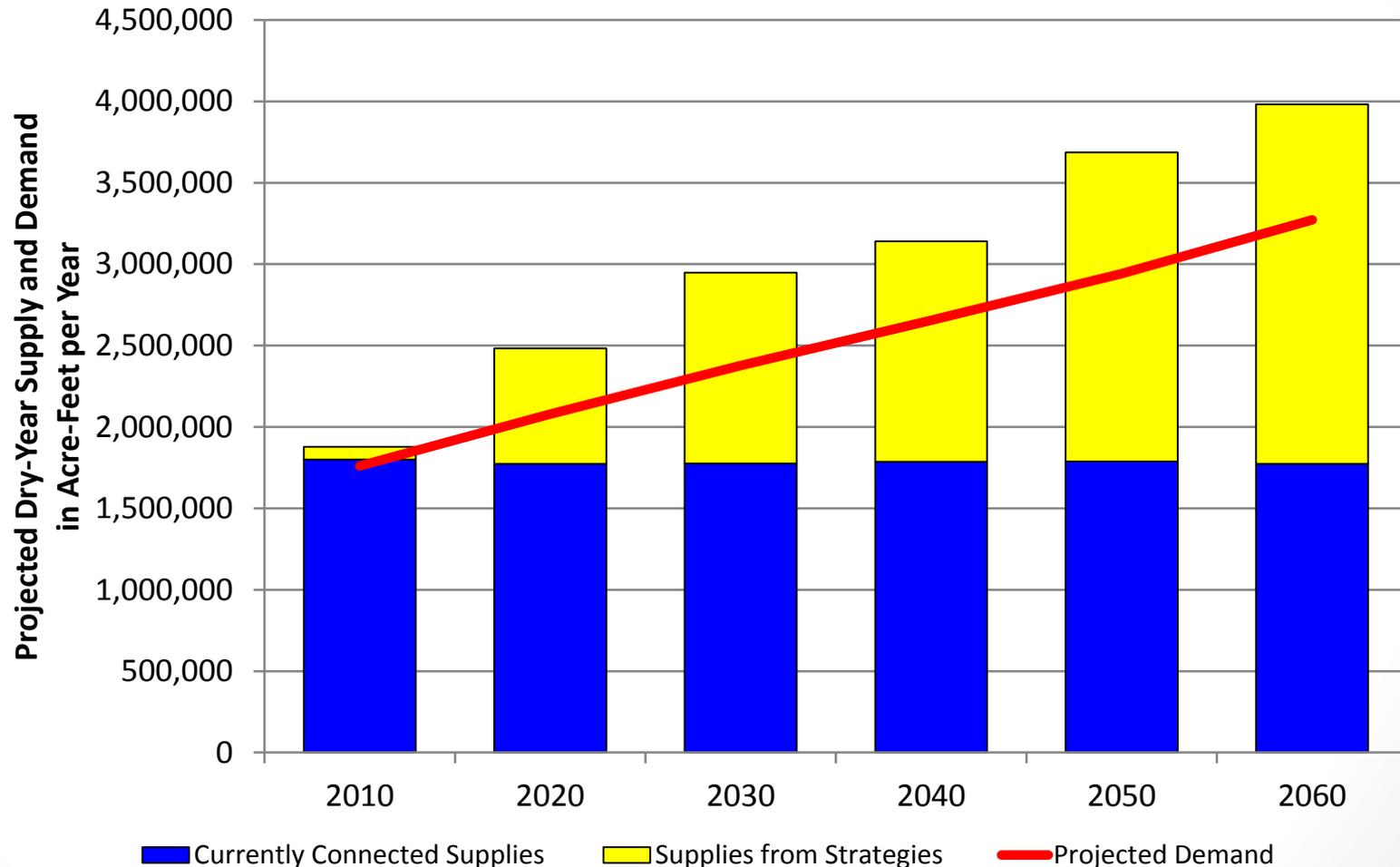
- Region C – 16 county area
- Includes Dallas, Tarrant, Denton, and Collin Counties
- 1/4 of Texas' population
- 1/12 of Texas' water use in 2000



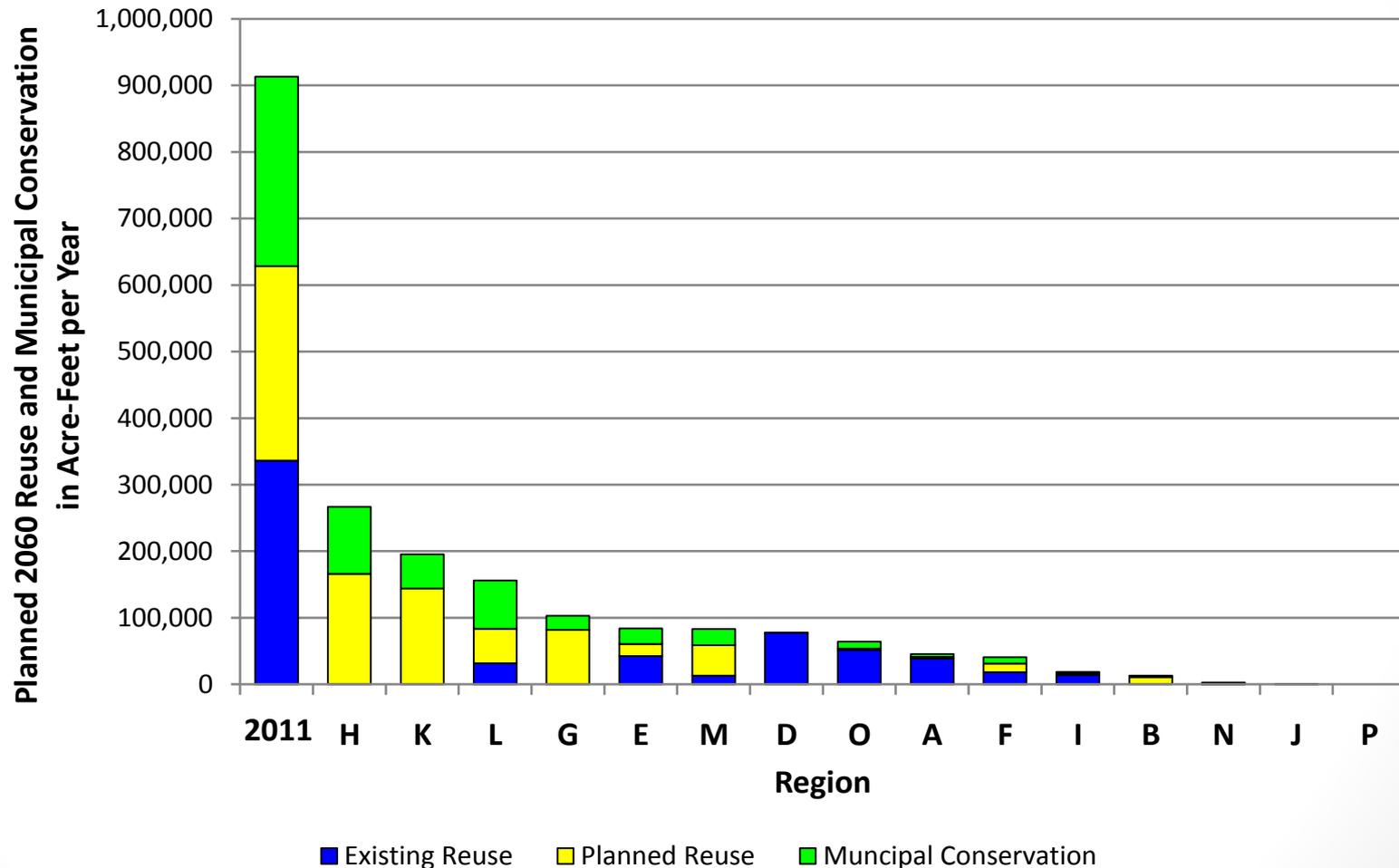
Where We Get Our Water

- 90%+ is surface water (including reuse)
- Most people get their water from cities
- Over 85% from 9 large wholesale providers
- $\frac{1}{2}$ of the water used is returned as treated effluent
 - Reuse is a significant source of water supply
 - Reuse can be increased significantly
 - Instream uses

Supply and Demand for Region C with the Development of New Supplies



Planned 2060 Reuse and Municipal Conservation Supplies by Region

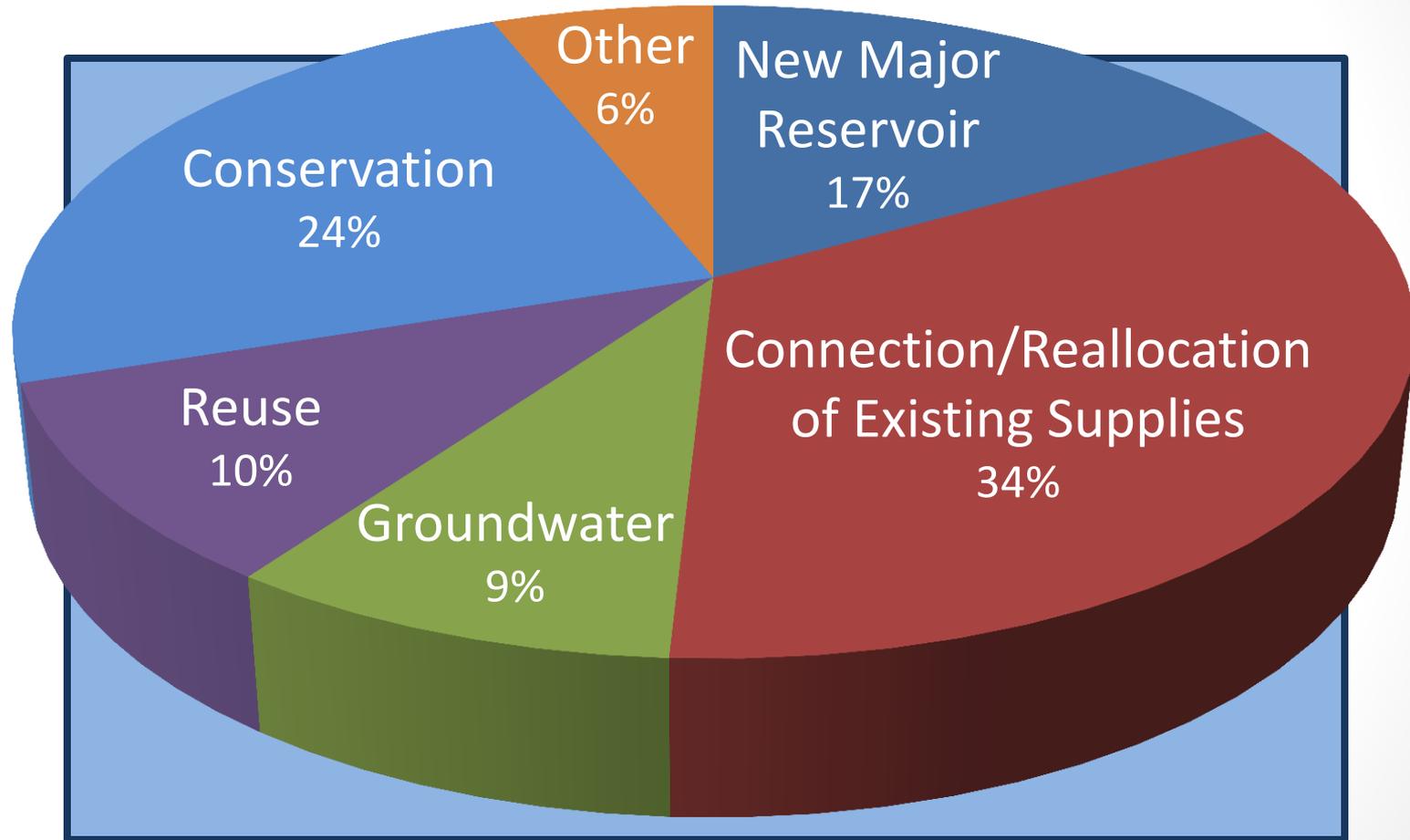


Sustainability Issues –

Current Conservation Efforts

- 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

New Supplies – 2012 Water Plan



Recommended WMSs for Region C

Strategy	Supplier	Supply (Ac-Ft/Yr)	Supplier Capital Cost
Toledo Bend Reservoir	NTMWD	200,000	\$1,239,762,000
	TRWD	200,000	\$1,937,420,000
Marvin Nichols Reservoir	NTMWD	174,840	\$830,894,000
	TRWD	280,000	\$2,371,116,000
	UTRWD	35,000	\$225,628,000
TRWD Integrated Pipeline	TRWD	179,000*	\$702,008,000
Lower Bois d'Arc Creek Reservoir	NTMWD	123,000	\$615,498,000
Oklahoma Water	NTMWD	50,000	\$208,624,000
	TRWD	50,000	\$441,548,000
	Irving	25,000	\$194,825,000
	UTRWD	15,000	\$96,083,000
Lake Palestine	DWU	111,776	\$887,954,000
New Lake Texoma (Blend)	NTMWD	113,000	\$336,356,000
Wright Patman Lake - Raise Flood Pool	DWU	112,100	\$896,478,000
TRWD Wetlands	TRWD	105,500	\$212,416,000
Tawakoni Pipeline	DWU	77,994	\$496,243,000
Lake Ralph Hall and Reuse	UTRWD	52,437	\$286,401,000
Main Stem Trinity River Pump Station	DWU and NTMWD	41,029	\$142,567,000
Region C Total		1,766,676	\$12,121,821,000
* The TRWD Integrated Pipeline is not a new supply to the region and is not included in the Region C Total supply.			

Dollars and Sense

\$116 billion

ANNUALLY

Cost of

NOT IMPLEMENTING

2012 Plan



\$53 billion

Cost of

IMPLEMENTING

2012 Plan



Five-Year State Water Plan

Biggest Challenges Ahead

- Securing additional funding from the TWDB to complete the 4th cycle of regional planning
- Building support for implementation of the State Water Plan
- Challenges from other Planning Regions
- Getting TWDB to allow higher percentage of reserve supplies to be included in plan
- Federal obstacles and resistance to water development projects appears to be growing and more difficult to overcome

Opportunities for Cooperation

- Current Drought Response
- Cooperative Supply Development
- Regional Conservation Initiatives
- Political Issues for New Supplies
- Increased Interconnection



Questions