



Region C Water Planning Group

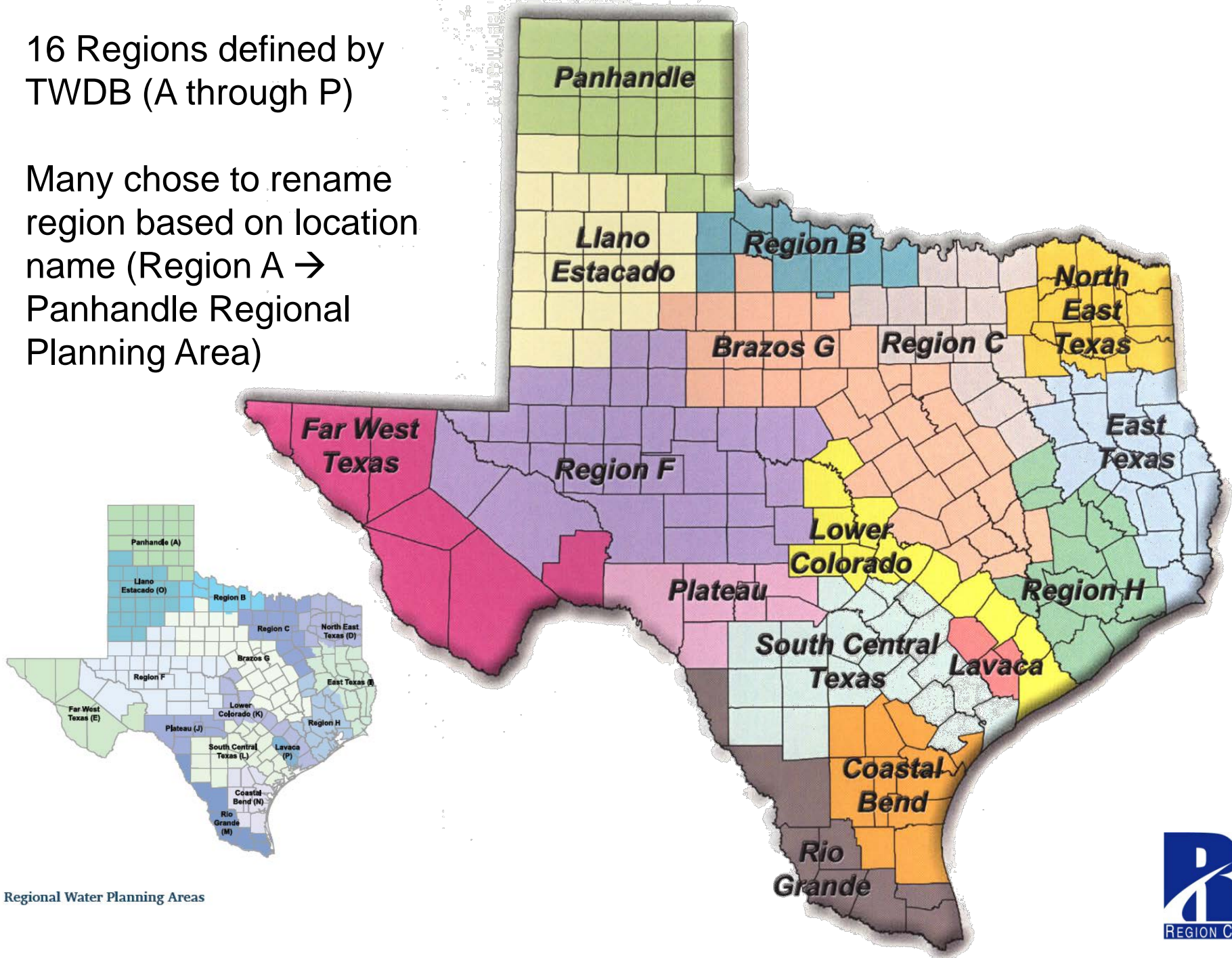
General Overview



What is Regional Water Planning?

- Texas legislature enacted water legislation in 1997 with Senate Bill 1 (SB 1)
- Established new approach to water planning and management in Texas
 - Prior to SB 1, State Water Plan developed at State level by TWDB (top-down planning)
 - SB 1 changed system to bottom-up planning incorporating local, regional, and public participation

- 16 Regions defined by TWDB (A through P)
- Many chose to rename region based on location name (Region A → Panhandle Regional Planning Area)

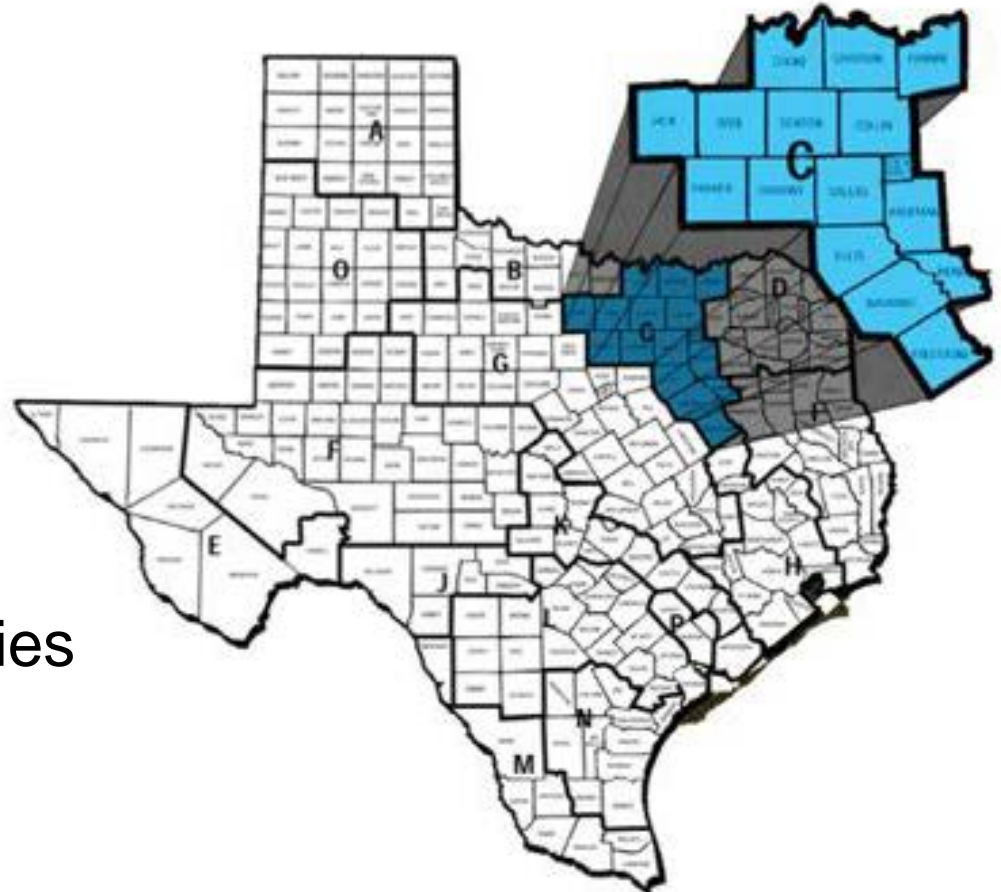


What is Regional Water Planning?

- Five-year planning cycles
 - 1st cycle → 2001 Regional Water Plans → 2002 State Water Plan
 - 2nd cycle → 2006 Regional Water Plans → 2007 State Water Plan
 - 3rd cycle → 2011 Regional Water Plans → 2012 State Water Plan
- Currently working on the 4th cycle of planning that will result in 2016 Regional Plans and 2017 State Water Plan
- Projects must be “consistent” with regional and state water plans to obtain TCEQ permits or TWDB funding

Region C Water Planning Area

- Region C Water Planning Area
 - 16 Counties
 - Urban core (Metroplex)
 - Suburban Ring
 - Rural outer counties



Counties:

Collin, Cooke, Dallas, Denton, Ellis, Fannin, Freestone, Grayson, Henderson (partial), Jack, Kaufman, Navarro, Parker, Rockwall, Tarrant, Wise.

Region C Water Planning Group

- 22 members representing:
 - Municipalities
 - River Authorities
 - Counties
 - Groundwater Management Areas
 - Public
 - Environment
 - Electric Generating Utilities
 - Water Utilities
 - Water Districts
 - Industry
 - Small Business
 - Agriculture

Regional Water Planning Process

- Political subdivision – North Texas Municipal Water District (NTMWD)
- Consultant Team
 - Freese and Nichols
 - Alan Plummer and Associates Inc.
 - CP&Y
 - Cooksey Communications
- TWDB – State Level
 - Sets rules, guidelines
- Region C Water Planning Group (RCWPG) – Regional Level

Region C Water Planning Group Responsibilities

- Consider local plans
- Develop and adopt regional water plans
- Consider public input
- Provide region-specific analyses
- Offer *preliminary, planning-level analysis* of water management strategies
 - No regulatory authority
 - Process is designed to be “bottom up” approach to planning

Regional Water Planning Trifecta

Demands

Supplies

Strategies

- How much water do we need?
 - Demand projections
- How much water do we have now?
 - Water availability analysis
- How will we meet our future water needs?
 - Water management strategies

Demands

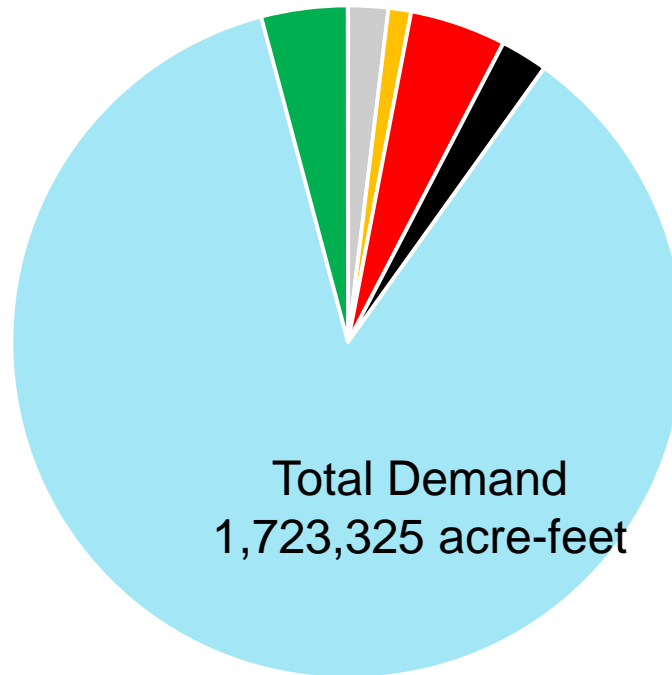
- Water User Groups (WUG)
 - Municipal
 - Manufacturing
 - Irrigation
 - Livestock
 - Mining
 - Steam Electric Power
- Wholesale Water Providers (WWP)

Major Region C Wholesale Water Providers

- NTMWD – North Texas Municipal Water Dist
- TRWD – Tarrant Regional Water District
- GTUA – Greater Texoma Utility Authority
- TRA – Trinity River Authority
- City of Dallas
- UTRWD – Upper Trinity Regional Water Dist
- City of Fort Worth

Demand – Year 2020

Demand (acre-feet/year)



Region C
accounts for 25%
of the population
of the State of
Texas (2020
Projections)

Region C
accounts for 9.4%
of the demand
of the State of Texas
(2020 Projections)

■ Irrigation
■ Mining

■ Livestock
■ Municipal

■ Manufacturing
■ Steam Electric Power

2020 Demand Comparison

- Region A – 1,733,539 af/y
- Region C – 1,723,325 af/y
- Region H – 2,488,883 af/y
- Region M – 1,492,326 af/y (77% irrigation)
- Region O – 3,710,638 af/y (95% irrigation)

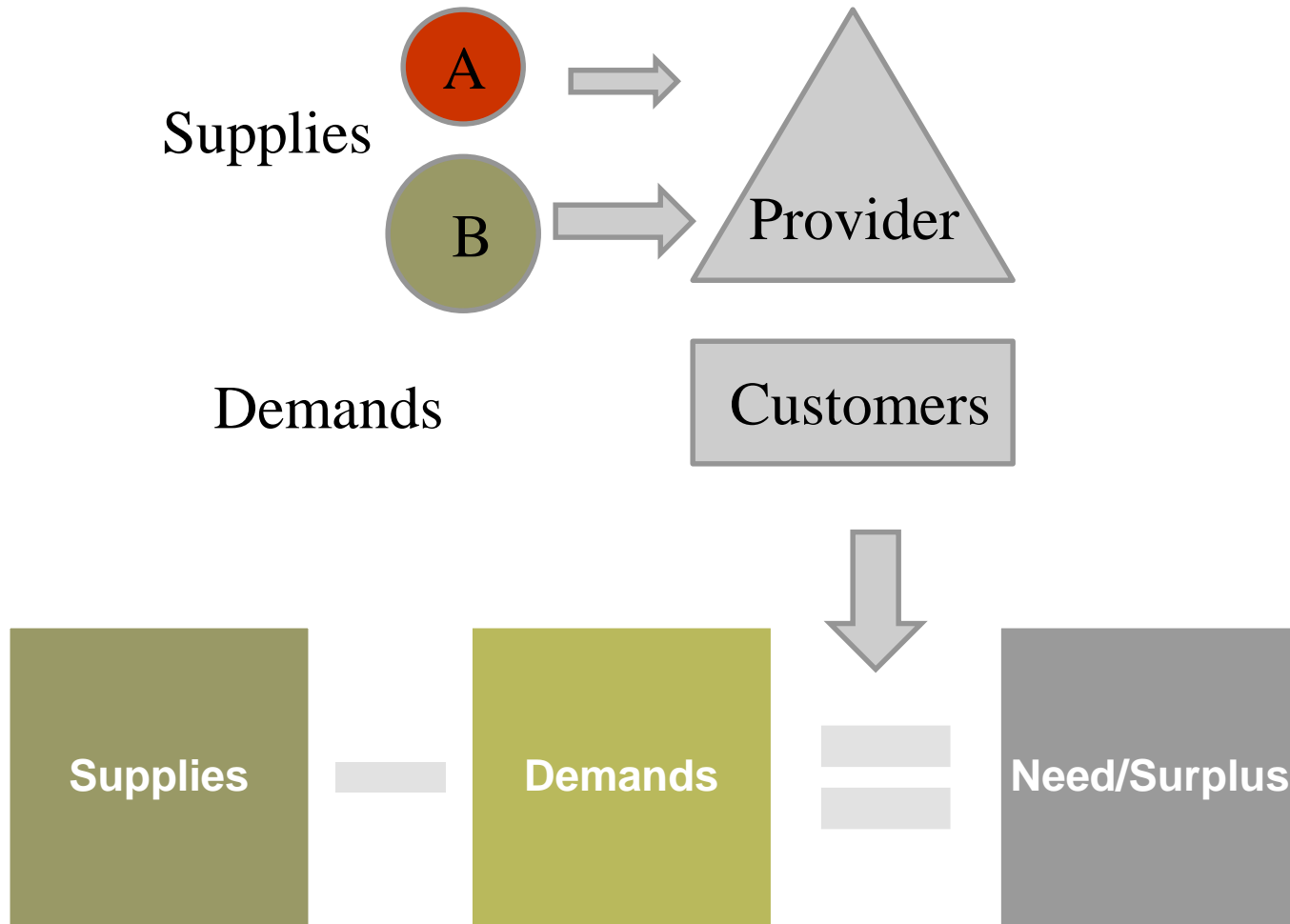
Supplies

- Surface water
 - Reservoirs
 - Run-of-river supplies
- Reuse
- Groundwater (Major and Minor Aquifers)
- Local Supplies
 - Stock Ponds
 - Other Groundwater (Undifferentiated Aquifers)

REGION C AREA MAP



Development of Needs



Water Management Strategies

- Developed to meet a need
- Must consider conservation/ drought contingency
- Specific guidelines in evaluating
 - Quantity, cost, reliability
 - Environmental impacts
 - Impacts on natural resources, agriculture, water quality, others

Strategies

- Potentially feasible
- Recommended
- Alternate

- Regions are now required to prioritize recommended strategies based on a uniform scoring matrix

Water Management Strategy (WMS)

- Conservation
- Reuse
- Infrastructure Improvements
- Increase contract amounts with current supplier
- Connecting to existing supplies (groundwater, reservoirs, etc)
- New Groundwater Development
- New Reservoir Development

Regional Water Plan

- Specific Chapters Required by TWDB
 - Demands, Supplies, Needs, Strategies
 - Overview of region
 - Conservation
 - Impacts of WMS
 - Long-term protection
 - Legislative recommendations
 - Financing
 - Public involvement
 - Drought Response (New)
 - Implementation (New)

Acronyms

- RCWPG= Region C Water Planning Group
- IPP = Initially Prepared Plan (Draft)
- MAG = Managed Available Groundwater
- GCD = Groundwater Conservation District
- GMA = Groundwater Management Area
- AF/Y = Acre-Feet per Year
- MGD = Million Gallons per Day
- gpcd = gallons per capita (person) per day
- DB17 = TWDB's online Regional Planning Database for 2017 State Water Plan