Application of TDC’s Projections in Water Planning

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(TWDB)
Basic Planning Parameters

• Planning for drought of records water needs
• 50-year planning horizon (2020-2070)
• 5-year planning cycle
• 16 Regional plans & State Water Plan
Water Planning - Projections Process

Developing Draft Projection

- 254 Counties (TDC)
- >1,300 Utilities (TWDB)

Revision Process

- Review & request changes
- TWDB staff review with 3 other agencies
Application of TDC’s Projections

1. Serves as draft state and county projections
   - Cohort-Component Method
   - 0.5 Scenario as default

2. Basis of sub-county projections
   - 1,300 water utilities
   - Ratio Trend Analysis:
     Share of pop / Share of growth
3. Provides additional information during revision process

- Provides alternative scenarios (0, 0.5, 1.0)
- Serves as benchmark
- Provides demographic details
Benefits

- Provides the best available projections
- Upholds credibility and consistency in the TWDB’s projections
- Saves agency resources and staff time
- Provides valuable demographic details
Challenges in using TDC data

– **No set data release schedule**
  - Difficult to plan
  - Any delays can add significant pressure on the regional water planning process
  - **Suggestion**: data release schedule

– **One Scenario-based projections**
  - No one scenario fits all
  - Long term planning
  - **Suggestion**: 0.5 & 1.0
Draft Plan &
Public
Comments
Regional Water Plans
State Water Plan

TDC Projections

Projections
Water Planning Process

Water Demand and Supply Analysis
Water Needs Analysis
Economic Impact Analysis
Water Management Strategies
Draft Plan & Public Comments
Questions?

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Other Suggestions:

- Keep historical data
  - Estimates & projection data sets & methodology documents for the previous years

- Share source data
  - Vital data, building permit & housing data, etc.