



# Region C Water Planning Group

November 9, 2015





# ACTION ITEMS





A. Receive report from nominating committee for 2016 slate of officers;  
Consider election of 2016 RCWPG officers

Jody Puckett  
Region C Chair



# 2016 Officer Election

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- Committee met October 23, 2015
- Committee recommends current slate of officers to continue in 2016
- Current officers willing to continue
- Other nominations
  
- Elect 2016 Officers



B. Consider action related to the Region C/Region D 2016 interregional conflict mediation and resolution

Jody Puckett  
Region C Chair



# 2016 Interregional Conflict

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- July 21 - Region D letter asserting conflict
- Sept 9 – TWDB finds conflict does exist
- October 5 – Mediation occurred and settlement reached

# 2016 Interregional Conflict

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- Mediated Settlement:
  - Marvin Nichols in plan but deferred to 2070
  - Reg C support Reg D effort to obtain funding to study alternatives to MN for 2021 Plans
  - Reg C adopt resolution that water suppliers should not submit water right applications for new reservoirs located in Reg D
  - Reg D not challenge MN as unique reservoir site
- Terms of settlement valid through next planning cycle (2021 Plans)

# 2016 Interregional Conflict

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- RCWPG Action needed:
  - Consider adoption of Resolution 15-3 ratifying mediated settlement agreement
  - Consider adoption of Resolution 15-4 recommending that Region C water suppliers not submit any water rights applications for new reservoirs located in Region D through the end of the fifth cycle of regional water planning (2021 Plans)





# C. Consider approval of final prioritization of projects in the 2016 Region C Water Plan

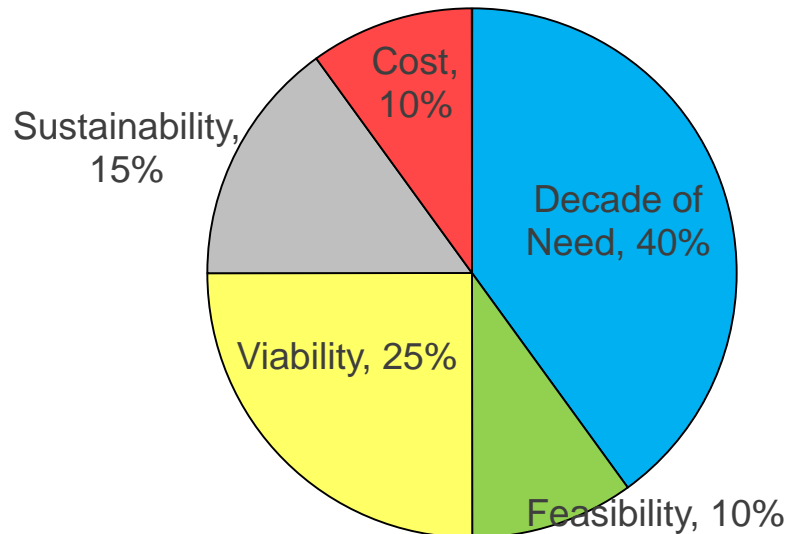
Tom Gooch, Freese & Nichols



# Prioritization

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- For purpose of SWIFT funding
- Projects from 2016 Plan, as entered by consultants in TWDB database (DB17)
- TWDB provided template
- Same scoring standard as 2011



# Prioritization

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- Consultants updated memo on methodology
- Consultants developed answers to 13 questions for 550+ projects
  - ~300 Conservation projects
  - ~250 infrastructure projects
- Subcommittee met October 12<sup>th</sup>

# Prioritization

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- General Observations
  - Strategies in earlier years ranked high
  - Strategies in later years ranked lower
  - Conservation strategies ranked high
  - “Grouping” projects was helpful
- Action required
  - Consider approval of 2016 prioritized projects



D. Consider approval and adoption of the final *2016 Region C Water Plan*

Tom Gooch, Freese & Nichols



# Adopt Final 2016 Plan

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- Changes from IPP
  - Respond to state agency comments
  - Respond to other comments as needed
  - Update Sulphur Supplies Strategy per Interregional Conflict Mediation Settlement
    - Marvin Nichols portion of Sulphur Supplies deferred to 2070
    - Added interim 2060 strategy for Tarrant Regional to avoid unmet need; moved North Texas MWD strategy from 2070 to 2060 to avoid unmet need
    - Added Section 10.6 on Interregional Conflict

# Adopt Final 2016 Plan

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- Changes from IPP (continued)
  - Clarified difference between recommended and alternative configurations of Marvin Nichols Reservoir
  - Added Sulphur River Basin Auth. as WWP
  - Various editorial changes
  - Added TWDB tables from database (DB17)
  - Volume of 2 future reuse projected adjusted

# Adopt Final 2016 Plan

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- Changes from IPP (continued)
  - Added Socio-Economic Analysis by TWDB
    - Estimates effects if no additional supplies developed
      - 2070 yearly lost income \$34.6B
      - 2070 lost jobs 373,000
  - Added Infrastructure Funding chapter
    - \$11.5B anticipated requested from TWDB
    - 2 add'l surveys received, adding \$3.4B
  - Revision of some cost estimates
    - total cost \$21.7B→\$23.8B



# Adopt Final 2016 Plan

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- Action Required:
  - Consider approval and adoption of 2016 Region C Water Plan
  - Consider delegating authority to Region C officers to make non-substantive revisions that might be needed between the date of final adoption and the December 1 submittal date.

# Adopt Final 2016 Plan

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- Action Required:
  - Consider authorizing Trinity River Authority to submit the final plan to TWDB by the December 1 deadline, including:
    - 2016 prioritization list,
    - all electronic data files, and
    - final complete GIS data package.



## E. Consider approval of December 2015 newsletter

Colby Walton  
Cooksey Communications



# Newsletter Content

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- **Articles**

- Overview of 2016 Plan, including:
  - Who is the Region C Water Planning Group?
  - What is Region C's Geographic Area?
  - How Does Regional Water Planning Work?
  - Why is Regional Water Planning Important?
  - What was the Public Input Process?
  - What are the Plan's Recommended Strategies?
  - How Important are Conservation and Reuse?
  - Which Major, Feasible Strategies Were Not Recommended, and Why?
  - How Can I Obtain a Copy of the Plan?
  - What Happens Next?

# Newsletter Content

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- **Articles, continued**
  - *Sidebar*. Update on GMA 8 Work to Set Desired Future Conditions for Groundwater
  - Glossary of Region C Water Planning Terms
  - Update on New Members, Officer Elections
  - Planning Group Roster

# Production and Distribution Process

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- **November:** Approval of draft newsletter (subject to any needed revisions) and submission of file to printer/mailhouse
  - Note: Figure ES.4 Comparison of Region C's Planned Conservation and Reuse to Other Regions will be added once developed
- **Early December:** Final newsletter distributed via mail, e-mail and posted to [regioncwater.org](http://regioncwater.org)
- Extra copies available for RCWPG members by request



# DISCUSSION ITEMS





# A. Fifth Cycle of Planning

Tom Gooch  
Freese and Nichols, Inc.





# Fifth Cycle of Planning

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- Product will be 2021 Regional Plans & 2022 State Water Plan
- 5 year cycle will run 2016-2020
- Initial contracts executed (Tasks 2 & 10)
- First Task (Task 2 Population Projections) estimated to begin Summer 2017 (when TWDB draft projections available)



# Other Discussion

- A. Updates from the Chair
- B. Report from Regional Liaisons
- C. Report from Texas Water Development Board



# Region C RWPG Update

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November 9, 2015 | Connie Townsend, P.E.

TWDB Regional Water Planning



# Update Outline

- **Socio-Economic Impact Analysis for the 2016 Regional Water Plan**
- **Initial Schedule for 2021 Regional Water Plan Development;**
- **TWDB Board Actions**

# Socioeconomic Impacts

Modeling of complex systems requires making assumptions and accepting limitations. This is particularly true when attempting to estimate a wide variety of economic impacts over a large geographic area and into future decades.

## **Major Assumptions:**

- Impacts are estimated for a single year;
- Shortages are assumed to be temporary events resulting from drought conditions;
- Analysis assumes that growth occurs, and then future shocks are imposed at 10-year intervals on the economy.

The results must be interpreted carefully. It is the general and relative magnitudes of impacts as well as the changes of these impacts over time that should be the focus rather than the absolute numbers.

# Socioeconomic Impacts

**Table ES-1: Region C Socioeconomic Impact Summary**

<b>Regional Economic Impacts</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
<b>Income losses (\$ millions)*</b>	\$2,581	\$2,846	\$6,063	\$11,751	\$21,216	\$34,607
<b>Job losses</b>	12,443	15,763	48,570	109,337	219,614	373,009
<b>Financial Transfer Impacts</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
<b>Tax losses on production and imports (\$ millions)*</b>	\$314	\$220	\$424	\$845	\$1,556	\$2,598

Consumer surplus is an attempt to measure effects on wellbeing (social impacts) by monetizing those effects; therefore, these values should not be added to the other monetary impacts estimated in the analysis.

# Socio-Eco Comparisons

## Municipal Demands

Plan	2020	2030	2040	2050	2060	2070
2011 RWP	1,833,670	2,087,596	2,344,114	2,612,175	2,924,156	
2016 RWP	1,481,530	1,675,385	1,894,722	2,119,813	2,352,818	2,594,833
	-19%				-20%	

## Municipal Needs

Plan	2020	2030	2040	2050	2060	2070
2011 RWP	367,257	622,541	869,956	1,140,044	1,459,327	
2016 RWP	113,529	326,635	547,140	759,653	990,752	12,382,082
	-69%				-32%	

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## Municipal Income Loss

Plan	2020	2030	2040	2050	2060	2070
2011 RWP	\$272	\$845	\$1,339	\$1,865	\$2,465	
2016 RWP	\$66	\$345	\$1,299	\$3,679	\$9,032	\$16,621
	-76%				266%	

## Municipal Job Loss

Plan	2020	2030	2040	2050	2060	2070
2011 RWP	6,690	20,419	31,553	45,026	60,115	
2016 RWP	994	5,172	19,495	55,232	135,628	249,590
	-85%				126%	

# 2016 Final RWPlan

## **Due to TWDB by December 1<sup>st</sup>:**

- Final Adopted RWPlan, including response to comments, as well as:
  - Infrastructure Finance Report (IFR) & Data
  - Implementation Survey Report & Data
  - Socioeconomic Impact Report
- 2016 Recommended WMS Prioritization List
- Final GIS Data – complete new data set to submit





# Budget Questions

- The Board's interim order was based on 31 TAC 357 rules in place for the 2011 Plan and the Marvin Nichols Reservoir WMS quantitative analysis was considered an existing requirement that had not been met by the 2011 Region C Plan
- The unused Task 12 funds are based on HB4 appropriations and are strictly limited to the purpose of developing regional prioritizations.
- It is not possible to move forward remaining funds from Round 4, Task 12 into the 5<sup>th</sup> cycle contract for Round 5 prioritization work. However, the Round 5 prioritization funding will not be subject to the same constraint as in Round 4.

# Next (5<sup>th</sup>) Cycle of RWPlanning

**Initial Contract was executed June 25, 2015: \$188,667**

## **Task 2A- Non-Population Water Demand Projections**

- TWDB RFQ just went out for new study to review/update methodology for Steam-Electric, Manufacturing, & Irrigation projections
  - **Study to be completed Summer 2016**
- TWDB also has another RFQ out to develop a water use data work plan, comparing to USGS data needs, creating priorities.
- And EDF will be submitting a white paper on TWDB Steam-Electric projections and the impact of the Obama Administration's Clean Energy Initiative ('clean power plants'); Texas trend is already indicating a decrease in coal plants and an increase in natural gas plants.

# Next (5<sup>th</sup>) Cycle of RWPlanning

## Task 2B- Population & Pop-Related Water Demand Projections

- New method to present projections by utility rather than by city limits
- In-house develop methodology for new “utility-based” projections
- In-house develop methodology for dry year GPCD for utilities
- Estimate delivery of all category projections together Summer 2017
  - ❖ Take home message – Schedule not written in stone; looking for feedback from RWPGs in 1<sup>st</sup> Quarter 2016

## Task 10- Initial Public Participation Activities

# Recent Board Actions

- **9/9/15: 2<sup>nd</sup> Round of SWIFT** timeline approved;
- **10/13/15:** Existing **boundaries of the 16 RWP Areas** confirmed without change;
- **11/10/15:** Board will consider adopting & authorizing publication of amendments to 31 TAC §357.10, §357.50, §357.51, §357.62, and §358.3 relating to **RWP Interregional Conflicts.**

# 2<sup>nd</sup> ROUND SWIFT

- TWDB Board approved Timeline at September 9<sup>th</sup> meeting
- Intend using the 2017 SWPlan to determine eligibility

12/01/2015	Abridged application period begins for second round funding
02/05/2016	Abridged applications due
Spring 2016 <i>(estimated 04/07/2016)</i>	Board considers prioritization of abridged applications  Board identifies amount of funds available by category; establishes the structure of financing, and the subsidy terms  Invitations extended to submit applications for financial assistance
05/07/2016	Entities submit complete applications (30 days from prioritization)
Summer 2016 <i>(estimated late July/early August)</i>	Board considers and approves applications  Board authorizes TWDB bond sale
Fall 2016	TWDB bond sale
Winter 2016	TWDB bond closing  Borrowers loan closings



# Questions?

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## TWDB Regional Water Planning

Connie Townsend, P.E. [connie.townsend@twdb.texas.gov](mailto:connie.townsend@twdb.texas.gov)





# Other Discussion

- D. Report from Texas Department of Agriculture
- E. Report from Texas Parks and Wildlife Department
- F. Other Reports





# Other Discussion

- G. Confirm Date and Location of Next Meeting
- H. Public Comments







# Adjournment





Thank you for attending.

Materials are available at  
[www.regioncwater.org](http://www.regioncwater.org)

