



Region C Water Planning Group

May 22, 2017





ACTION ITEMS





A. Announcement of Three Vacancies: Robert Scott Representing Environmental Interests, Jim McCarter Representing Water Utilities, and Howard Martin Representing Municipalities; Call for Nominations to Fill Vacancy, and Vote to Fill Vacancies

Jody Puckett
Region C Chair



Election to fill Bob Scott Vacancy

- Bob Scott recommendation, Grace Darling
- Other nominations

- Elect to fill vacancy

Election to fill Jim McCarter Vacancy

- Texas Rural Water Association recommendation, Chris Boyd
- Other nominations
- Elect to fill vacancy

Election to fill Howard Martin Vacancy

- Howard Martin recommendation, Tim Fisher
- Other nominations

- Elect to fill vacancy



B. Receive Report from Nominating
Committee for Slate of Officers for 2017;
Consider Election of 2017 Officers

Jody Puckett
Region C Chair



2017 Slate of Officers

- Nominating Committee:
 - Current Officers + 2 At-Large Members
 - Jody Puckett, Russell Laughlin, Kevin Ward, Tom Kula, & Harold Latham
- Recommendation
- Vote on 2017 Slate of Officers



C. Appoint Nominating Committee for Slate of Officers for 2018

Jody Puckett
Region C Chair



Committee

- Committee to consist of:
 - Current Officers
 - 2 members at-large (rotating basis)
- Appoint Committee



DISCUSSION ITEMS





A. Review of Roster

Jody Puckett
Region C Chair



Roster

- Will be updated to include newly elected members and officers
- 4 vacancies for alternate member positions
- Verify your contact information and send changes to adk@freese.com



B. Schedule

Amy Kaarlela
Freese and Nichols, Inc.



Schedule - 2021 Planning Cycle

- Key Dates
 - ~~Jan 2018~~ Nov 30, 2017- Population/Demand Projections due
 - March 2, 2020 – Initially Prepared Plan due
 - ~~Sept 2, 2020~~ Oct 14, 2020 – Final Plan due
- 2017 remaining Meetings - Fall
- ~12 RCWPG meetings over next 4 years



C. Status of Contract with TWDB, TRA, and consultants

Amy Kaarlela
Freese and Nichols, Inc.



Contracts

- TRWD/TRA
- TRA/FNI
- FNI/subs



D. Proposed Region-Specific Scope for Task 4D (Strategy Evaluation)

Amy Kaarlela
Freese and Nichols, Inc.



Scope

- Correction – Task 5A, not Task 4D
- Task 5A (WMS Evaluation) is the bulk of work and funding
- A portion of scope developed by TWDB, applies to all regions
- Remainder of scope is developed by each region, and is region-specific

Scope

- FNI will develop draft scope, use previous scope as starting point
- Will present to RCWPG for approval at next meeting
- Do not need this scope prior to executing contracts
- TWDB must provide notice-to-proceed prior to consultants performing this task



E. Water Management Strategies - Review proposed criteria for evaluating WMSs

Freese and Nichols, Inc.



Background

- Regional Planning rules require consultants to make presentation on categories of Water Management Strategies (WMSs)
- Regional Planning rules also state that:
 - Consultants must present WMS evaluation criteria to Planning Group
 - Planning Group must approve WMS evaluation criteria

Background

- Today – Presenting categories of WMSs and proposed criteria for evaluating WMSs in this round of planning
- Proposed criteria is the same criteria used in the last round of planning
- Planning Group will be asked to approve evaluation criteria at next meeting

Categories of WMSs

- Water Conservation
- Drought Management Measures
- Wastewater Reuse
- Interbasin Transfers (IBT)

Categories of WMSs

- Expanded Use of Existing Supplies
 - Connection of Existing Supplies
 - System Operation
 - Conjunctive Use of Surface & Groundwater
 - Reallocation of Reservoir Storage
 - Voluntary Redistribution of Water Resources
 - Voluntary Subordination of Existing Water Rights
 - Yield Enhancement
 - Water Quality Improvement

Categories of WMSs

- New Supply Development
 - Surface Water Resources
 - Groundwater Resources
 - Brush Control
 - Precipitation Enhancement
 - Desalination
 - Water Right Cancellation
 - Aquifer Storage and Recovery (ASR)

Policies for WMSs

- WMSs are intended to meet “needs” (when demand is more than current supply)
- Water conservation must be considered for every identified need
- Each RWPG may determine its own screening criteria for WMSs
- TWDB has specified certain WMSs that each RWPG must address
- Develop a list of “potentially feasible strategies” to meet each need and then evaluate to determine which is best

WMS Evaluation Criteria – All Categories

- Supplies from WMSs must meet identified “needs”. “Needs” include:
 - Shortages identified when demand exceeds firm yield supply
 - Shortages created when using safe yield (rather than firm yield)
 - Shortages identified when water quality issues make the current supply unavailable or undesirable
 - When there is not adequate reserve supply

WMS Evaluation Criteria – All Categories

- WMS must have an identified sponsor or authority
- WMS must consider the end use, including water quality, distance to end user, etc
- WMS should provide a reasonable percentage of projected need (except for conservation)

WMS Evaluation Criteria – All Categories

- WMS must :
 - meet federal & state regulations, including environmental regulations
 - be based on proven technology
 - be able to be implemented
 - be appropriate for regional water planning

WMS Evaluation Criteria – Specific Categories

- Water Conservation
 - Will be considered for all WUGS
- Drought Management Measures
 - Used only in times of drought
 - Not feasible for meeting long range needs in years of average rainfall
- Wastewater Reuse
 - Direct & indirect will be considered
 - Considered on a case-by-case basis

WMS Evaluation Criteria – Specific Categories

- Expanded Use of Existing Supplies
 - Connection of Existing Supplies
 - Considered on a case-by-case basis
 - Supplies should be owned by the water group with the need or should be available to that group by purchase or permitting
 - System Operation
 - Will be considered if feasible
 - Will be considered if owner wishes to adopt such strategies

WMS Evaluation Criteria – Specific Categories

- Expanded Use of Existing Supplies
 - Conjunctive Use of Surface & Groundwater
 - Considered when groundwater is available
 - GCD rules will be followed
 - Reallocation of Reservoir Storage
 - Owner must be amenable to reallocation
 - For federal reservoirs, there must be an appropriate and willing local sponsor
 - Voluntary Redistribution of Water Resources
 - Involved parties must show interest
 - Involved parties must come to a consensus on approach

WMS Evaluation Criteria – Specific Categories

- Expanded Use of Existing Supplies
 - Voluntary Subordination of Existing Water Rights
 - Involved parties must be amenable
 - Alternatively, right holder may sell right to willing buyer
 - Yield Enhancement
 - Considered on a case-by-case basis
 - Water Quality Improvement
 - Considered when bringing existing supply into compliance
 - Considered when improving usability of water

WMS Evaluation Criteria – Specific Categories

- New Supply Development
 - Surface Water Resources
 - Must be able to get a permit
 - Must provide a reasonable amount of supply for identified need
 - Must be located a reasonable distance from the end user
 - Must provide water supply at a reasonable cost
 - Groundwater Resources
 - Considered only in areas where additional groundwater supplies are available

WMS Evaluation Criteria – Specific Categories

- New Supply Development
 - Brush Control
 - Considered as a specific WMS only when there is available data from existing studies
 - Precipitation Enhancement
 - Considered as a specific WMS only when there is available data from existing studies
 - Desalination
 - Considered on a case-by-case basis

WMS Evaluation Criteria – Specific Categories

- New Supply Development
 - Water Right Cancellation
 - This will not be pursued as a WMS
 - Rather, water right holders may consider selling water to willing buyers
 - Aquifer Storage and Recovery (ASR)
 - Considered when previous ASR study has already been performed
 - Considered in areas where aquifer structure makes this method applicable

WMS Evaluation Criteria – Specific Categories

- Interbasin Transfers (IBT)
 - Considered where necessary
 - Evaluated based on current IBT regulations

Evaluating Environmental Impacts of WMSs

Regional Planning guidelines require that all potentially feasible WMSs be quantitatively evaluated with regards to:

- Quantity of water provided
- Reliability of supply
- Cost
- Environmental Impacts
 - Instream Flows
 - Bay & Estuary Inflows
 - Wildlife Habitat
 - Wetlands
 - Threatened and Endangered Species
 - Cultural Resources
- Impacts to Agricultural Resources and Rural Lands

Evaluating Environmental Impacts of WMSs

- Consultants recommend:
 - Quantify impacts (if possible) for items such as:
 - Cost
 - Total acres impacted
 - Acres of wetlands impacted
 - Impacts for other categories will be scored from 1 to 5, based on available information
 - Costs will be updated for all strategies
 - Other impacts will only be updated for the strategies where there have been changed conditions since the 2016 Plan



F. TWDB Draft Population and Municipal Demand Projections

Amy Kaarlela
Freese and Nichols, Inc.



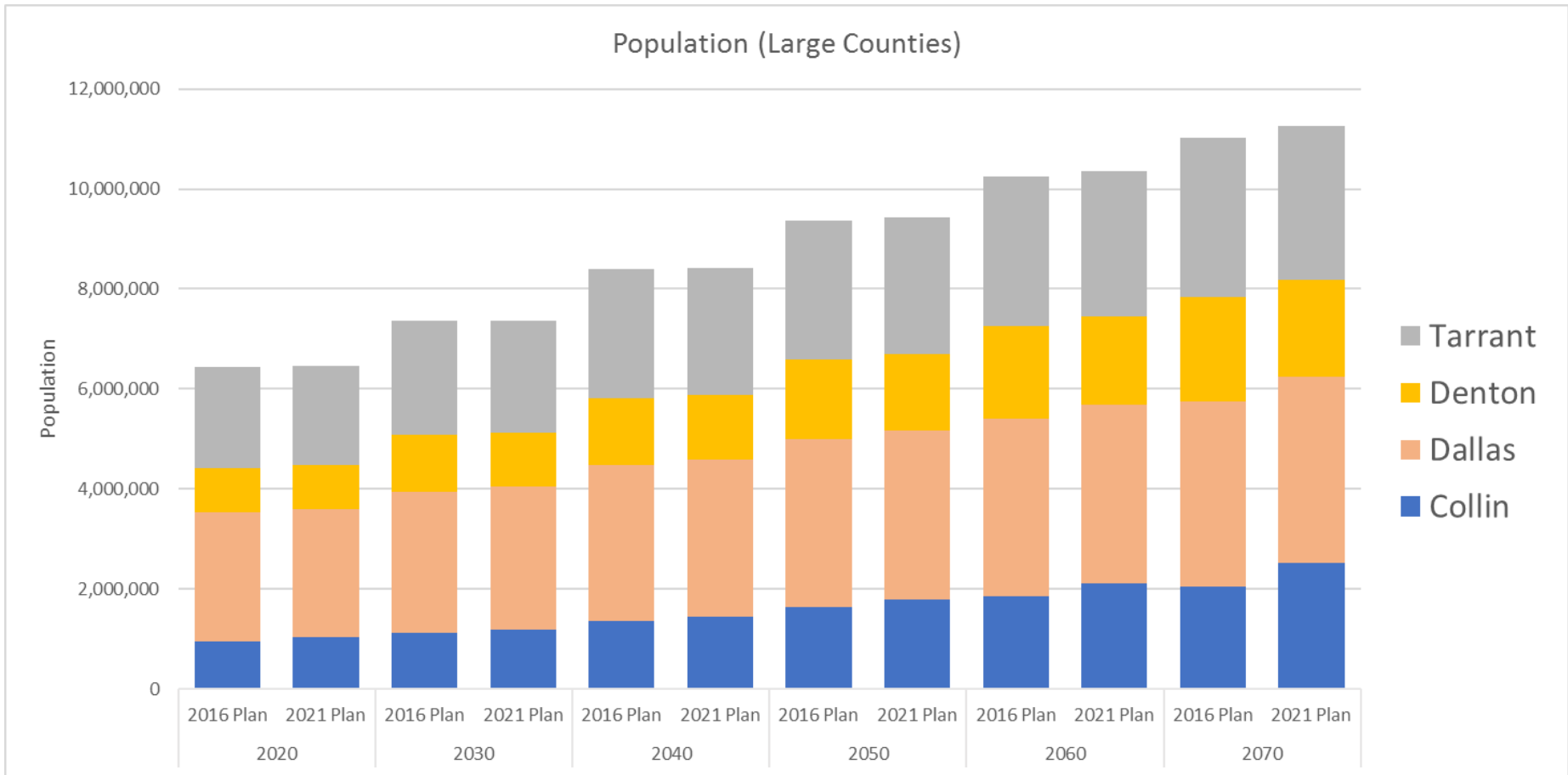
2021 Draft TWDB Population and Municipal Demand Projections

- No changes from 2016 Region C Water Plan to:
 - County Population totals
 - Regional Population total
 - Gpcd (but may be revised)
- Changes from the 2016 Region C Water Plan:
 - WUG boundaries - now based on utility service area, not city limits
 - Municipal demands are slightly different because of change to WUG boundary delineations

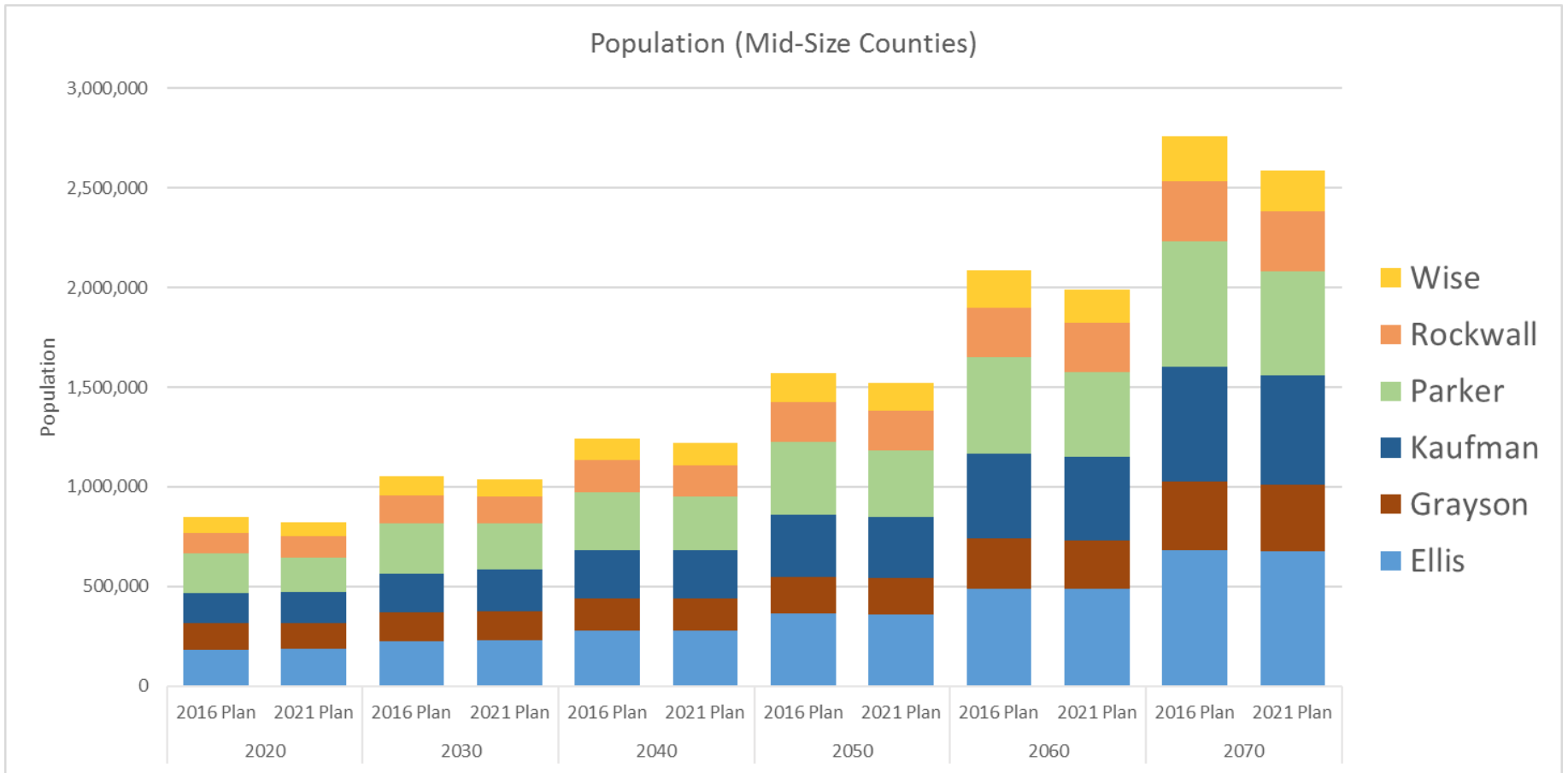
Steps Taken to Revise Draft Population Projections

- First revision of projections based on:
 - Collin County Mobility Study
 - Denton County Thoroughfare Plan
 - WUG Water/Wastewater Master Plans
- Met with 5 Major WWP

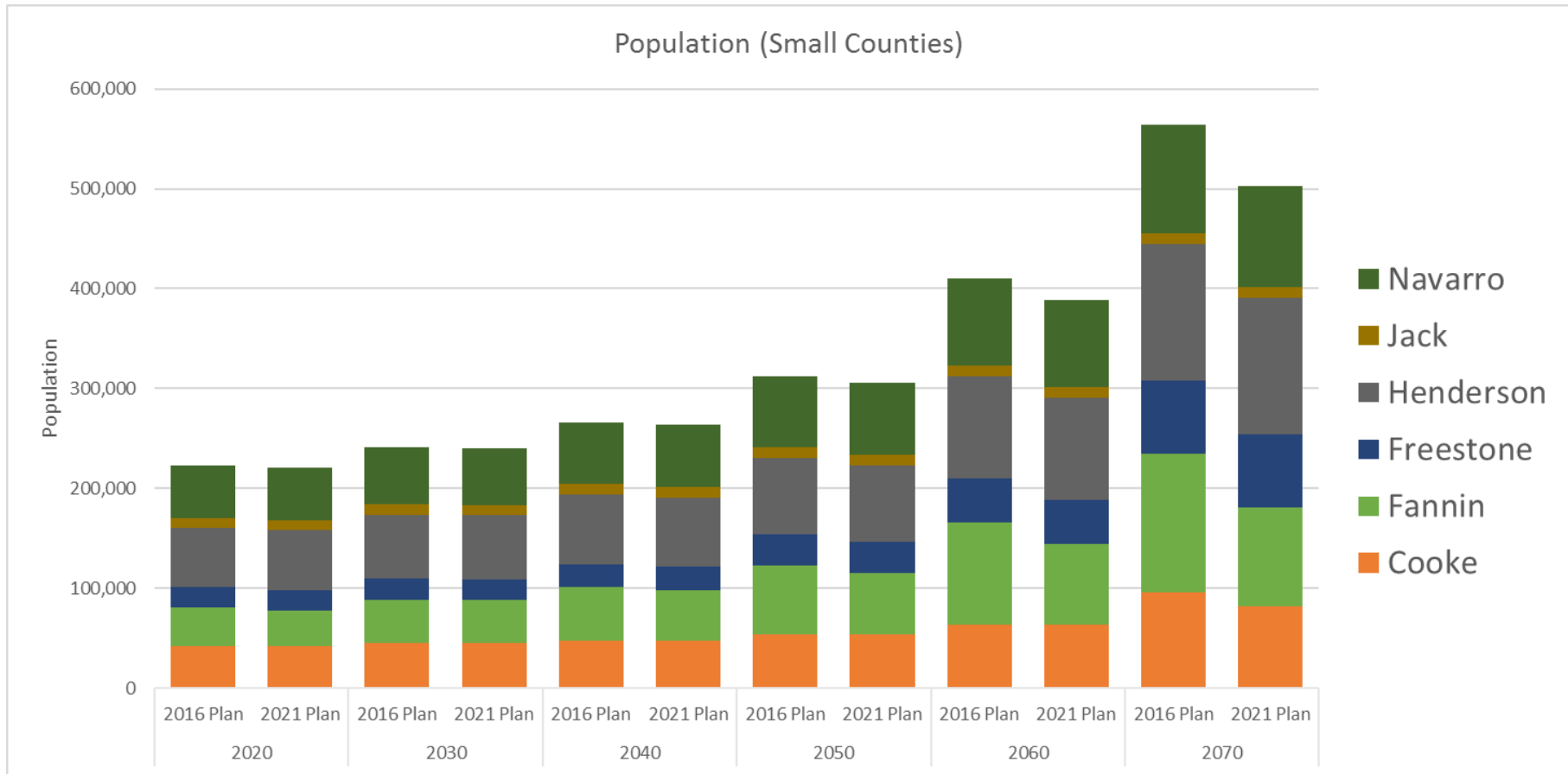
Population – Large Counties



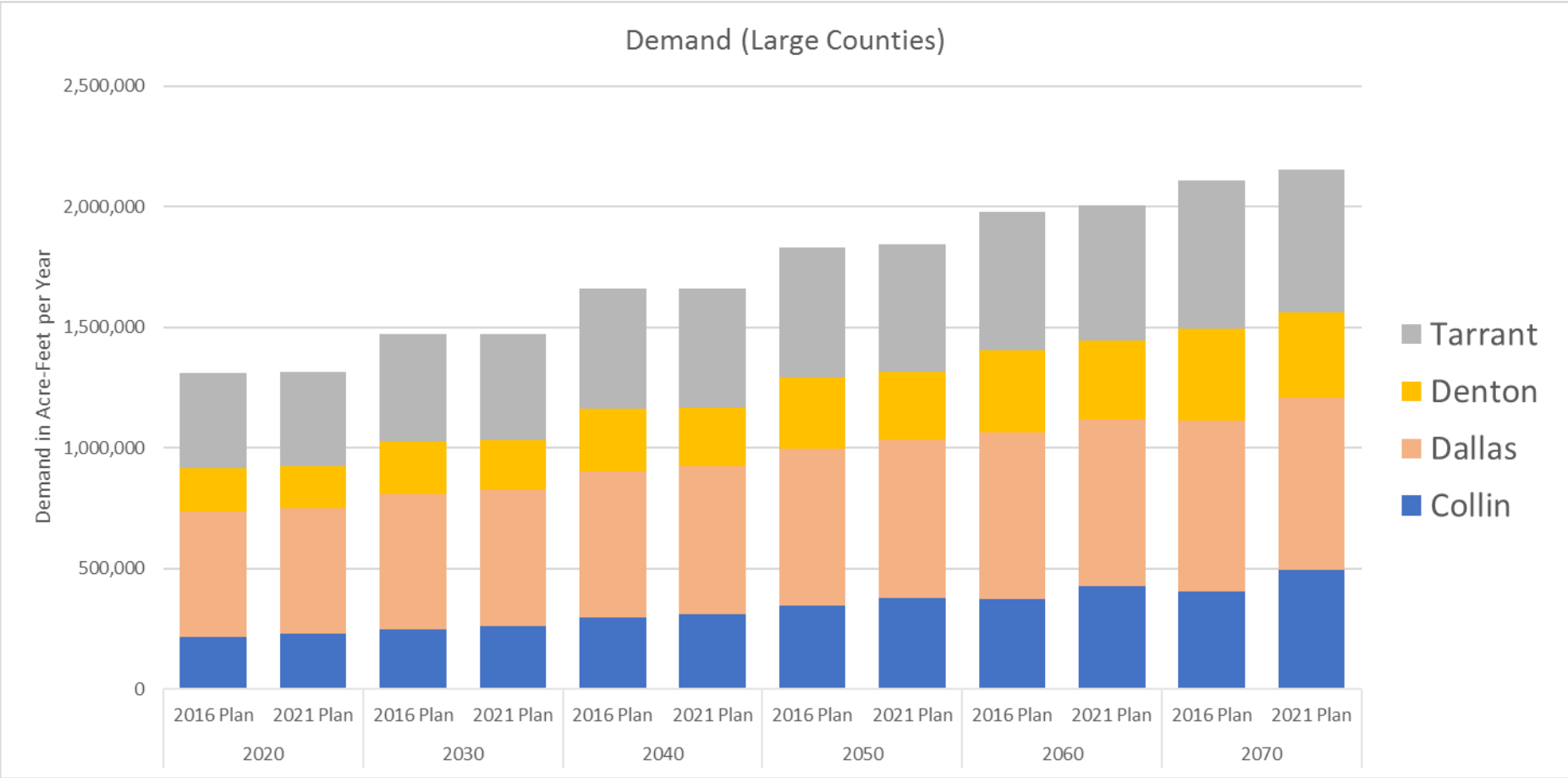
Population – Mid-Size Counties



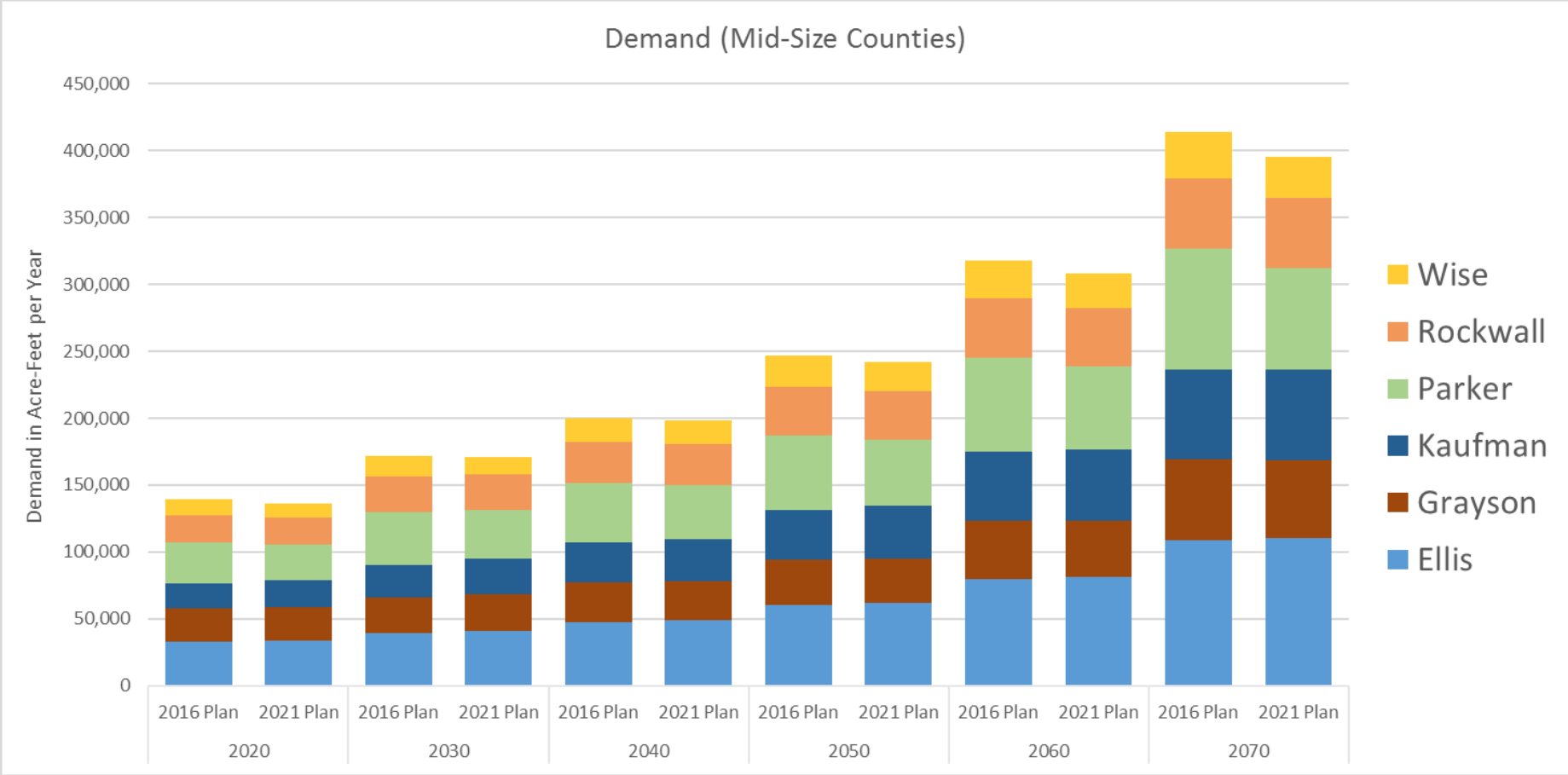
Population – Small Counties



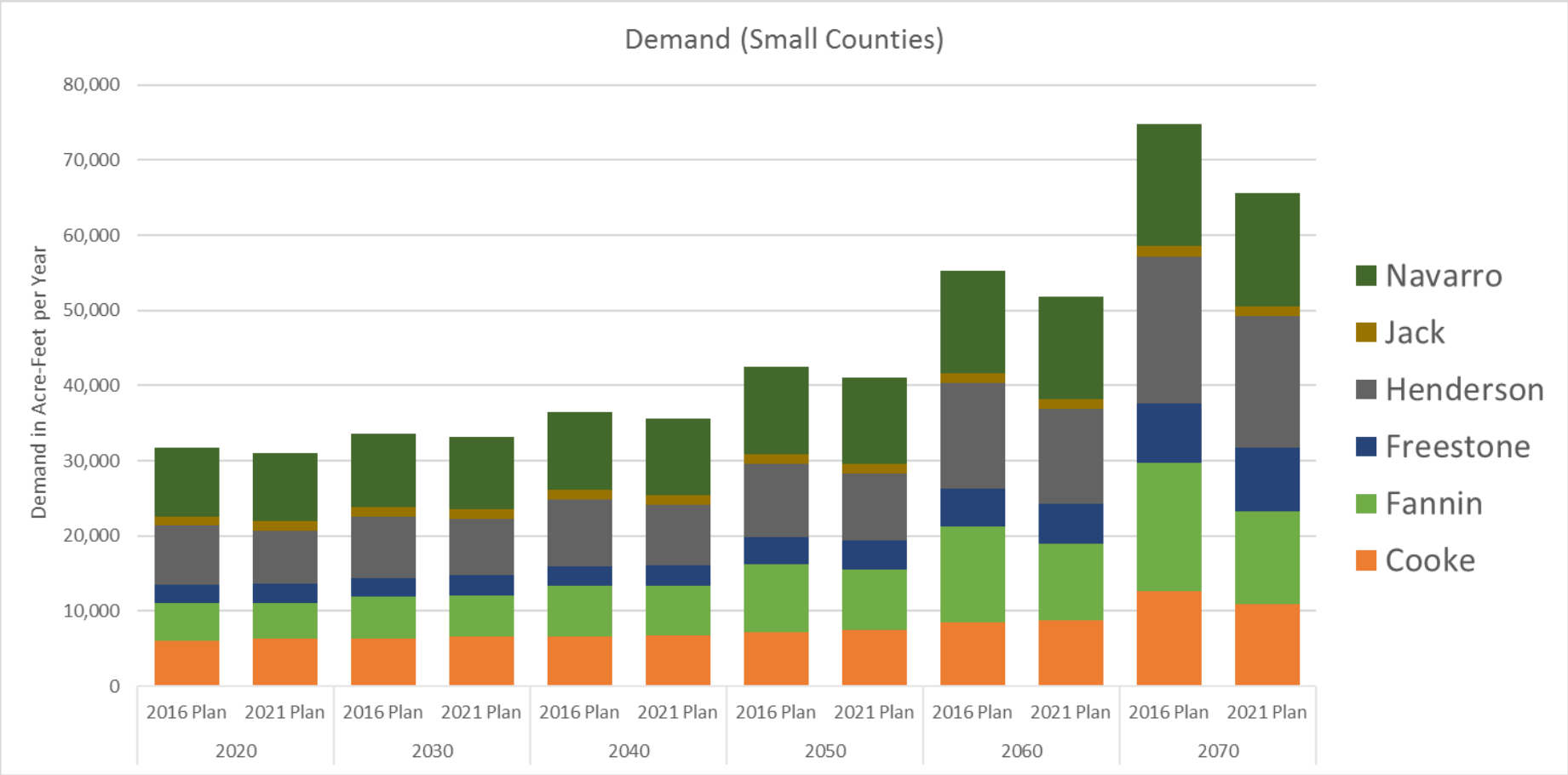
Demand – Large Counties



Demand – Mid-Size Counties



Demand – Small Counties



Next Steps

- June - Email surveys to WUGs
- June - Revise gpcd values (if needed) based on new data from TWDB
- October – Finalize/Approve projections



G. TWDB Draft Mining Demand Projections

Brian McDonald
Alan Plummer Associates, Inc.



Mining Water Use Data

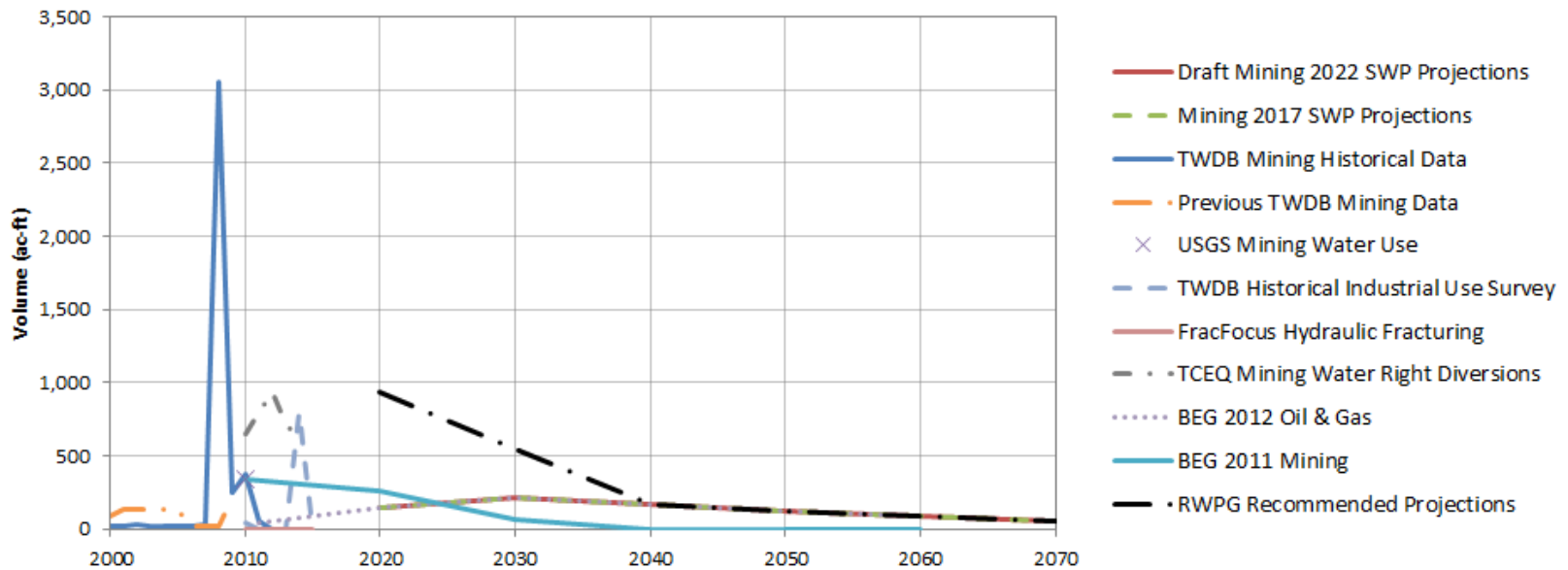
- Texas Water Development Board
 - Historical mining water use by county, 2000-2014
 - Historical industrial water use survey, 2010-2015
 - NAICS Sector 21: Mining, Quarrying, Oil/Gas Extraction
- Fracfocus.org
 - Hydraulic fracturing water use data, 2012-2015
- Texas Commission on Environmental Quality
 - Mining water right diversions, 2010-2014

Mining Water Use Data

- Bureau of Economic Geology
 - Current and Projected Water Use in the Texas Mining and Oil and Gas Industry, June 2011
 - Oil and Gas Water Use in Texas: Update to the 2011 Mining Water Use Report, September 2012
- United States Geological Survey
 - Mining water use data, 2010

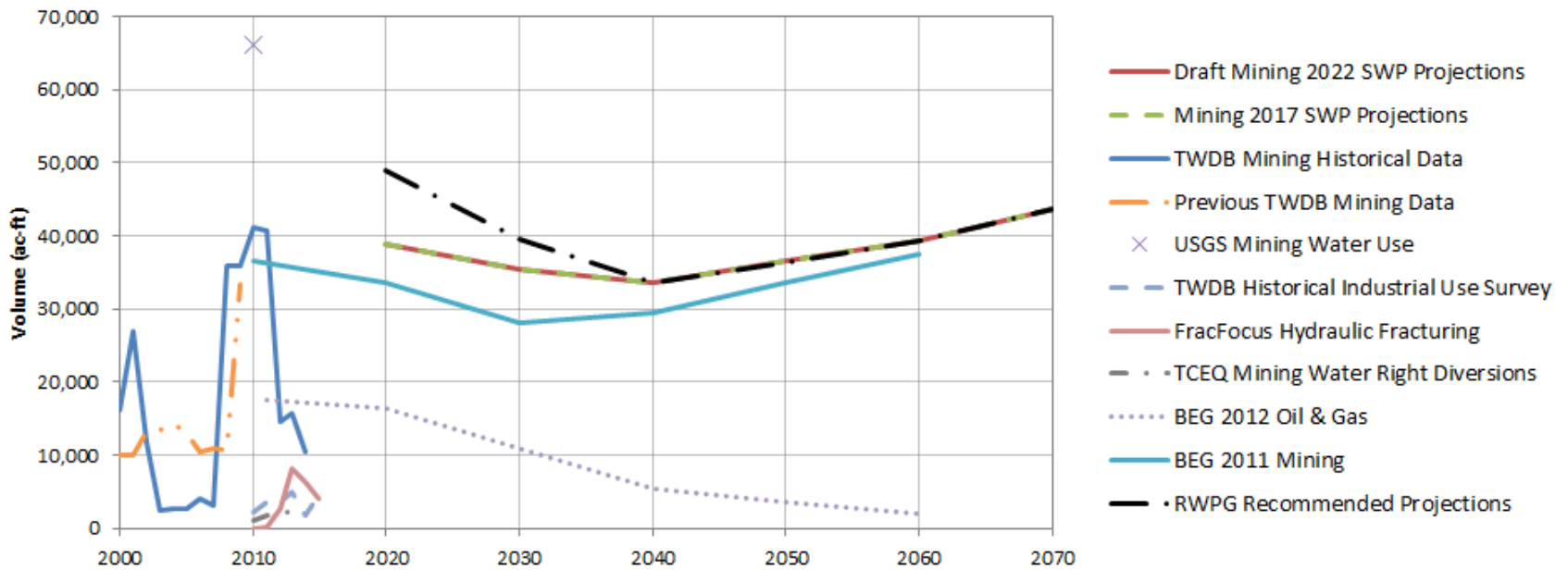
Ellis County

Figure 5A. Ellis County Mining Comparison



Regional Total

Figure 17A. Total County Mining Comparison



Recommended Mining Water Demand Projections

County	Draft Projections for 2022 SWP						Recommended RCWPG Projections					
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
Collin	0	0	0	0	0	0	0	0	0	0	0	0
Cooke	1,583	900	378	446	511	586	1,583	900	378	446	511	586
Dallas	3,038	2,656	2,279	1,930	1,922	1,916	3,038	2,656	2,279	1,930	1,922	1,916
Denton	4,326	2,729	3,345	4,306	5,204	6,291	4,326	2,729	3,345	4,306	5,204	6,291
Ellis	147	213	164	123	82	55	931	547	164	123	82	55
Fannin	128	128	128	128	128	128	574	351	128	128	128	128
Freestone	5,347	5,115	5,251	5,286	5,356	5,582	5,347	5,115	5,251	5,286	5,356	5,582
Grayson	79	91	107	123	142	163	299	203	107	123	142	163
Henderson	607	607	607	607	607	607	434	506	481	484	479	469
Jack	1,555	1,745	1,698	1,731	1,768	1,862	3,396	1,821	1,698	1,731	1,768	1,862
Kaufman	296	386	491	646	783	951	296	386	491	646	783	951
Navarro	883	1,071	1,282	1,572	1,806	2,076	1,193	1,238	1,282	1,572	1,806	2,076
Parker	3,182	4,029	4,006	4,073	4,124	4,364	3,182	4,029	4,006	4,073	4,124	4,364
Rockwall	0	0	0	0	0	0	0	0	0	0	0	0
Tarrant	7,367	4,482	1,589	1,537	1,497	1,464	13,976	7,783	1,589	1,537	1,497	1,464
Wise	10,320	11,159	12,337	13,975	15,378	17,694	10,320	11,159	12,337	13,975	15,378	17,694
TOTAL	38,858	35,311	33,662	36,483	39,308	43,739	48,950	39,494	33,597	36,407	39,212	43,623



H. Schedule for Approving Population and Demand Projections

Amy Kaarlela
Freese and Nichols, Inc.



Projections Schedule

- June - Email surveys to WUGs; revised gpcd
- June to October – Continued contact w/ water providers
- October – Post Projections for public comments (14-days prior to public meeting)
- October – RCWPG consider approval of projections
- November – Continue posting (14-days after meeting)
- End of Nov – submit projections to TWDB



I. Potential additional sub-consultants to Region C Team

Amy Kaarlela
Freese and Nichols, Inc.



Consultant Team

- Key outlying counties – Collin, Rockwall, Collin, Ellis, Kaufman, others
- Local consultants work for many of the smaller water providers
- Would be helpful for developing strategies
- Potentially add 1-2 small engineering firms to Region C Team
- TWDB requires selection process & RCWPG approval (potentially at next Region C meeting)



J. Newsletter Articles

Colby Walton
Cooksey Communications, Inc.



Newsletter

- Current Funding unsure
- TWDB
- NCTCOG
- Sponsors



K. Legislative Updates

Jody Puckett,
Chair



Legislative Update

- SB 347 (Watson)/HB3027 (Phelan) – passed both the House and Senate
 - Regional planning groups, committees, and subcommittees subject to Texas open meetings and public information acts
- SB1511 (Perry) – passed Senate
 - Removes infeasible strategies
 - Assess barriers to high priority strategies
 - Optional simplified regional planning process every other 5 years

Legislative Update

- HB2948 (Larson) – passed House
 - Interregional planning council
 - Assess potential of ASR to meet needs
 - Regional plans set GPCD goals by decades
 - Identify “unnecessary or counterproductive variations in drought response strategies, including outdoor watering”
 - Assess the progress of the RWP in encouraging cooperation between water user groups for the purpose of achieving economies of scale

Legislative Update

- HB 2240 (Lucio III) – No vote yet
 - Must have enforceable time-of-day water restrictions as part of conservation program to get funding greater than \$500,000 for a municipal water supply project
 - Not applicable to WWPs
- Session ends May 29, 2017



Other Discussion

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





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

