

## **MEETING MATERIALS**

**February 29, 2012** 

**San Jacinto River Authority** 

# Region H Water Planning Group 10:00 AM Wednesday February 29, 2012 San Jacinto River Authority Office 1577 Dam Site Rd, Conroe, Texas

#### **AGENDA**

- 1. Introductions.
- 2. Review and approve minutes of December 7, 2011 meeting.
- 3. Receive public comments on specific issues related to agenda items 4 through 13. (Public comments limited to 3 minutes per speaker)
- 4. Accept the resignation of Reed Eichelberger as a voting member of the Region H WPG representing river authorities.
- 5. Consider and take action on the selection of Jace Houston as a voting member of the Region H WPG representing river authorities.
- 6. Receive update on status of committees and appointment of committee members for the 2016 Region H Regional Water Plan.
- 7. Receive update from Consultant Team regarding the schedule and milestones for the first phase of development of the 2016 Region H Regional Water Plan.
- 8. Receive update from Consultant Team and Non-Population Demands Subcommittee regarding Non-Population Demand Projections recommended for the 2016 Region H Regional Water Plan and consider approving submittal to TWDB.
- 9. Receive presentation from Jace Houston, Consultant Team, and TWDB on the Regional Planning process.
- 10. Receive presentation from TWDB on Draft Rule Revisions related to Regional Water Planning.
- 11. Receive presentation from Tom Michel on progress and status of the Brazos Basin and Bay Area Stakeholder Committee and take action as necessary.
- 12. Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the Region H Planning Group.
- 13. Agency communications and general information.
- 14. **Receive public comments**. (Public comments limited to 3 minutes per speaker)
- 15. Next Meeting: May 2, 2012.
- 16. Adjourn

## Agenda Item 2

Review and approve minutes of December 7, 2011 meeting.



# MINUTES REGION H WATER PLANNING GROUP MEETING 10:00 A.M.

# December 7, 2011 SAN JACINTO RIVER AUTHORITY GENERAL AND ADMINISTRATION BUILDING 1577 DAM SITE ROAD CONROE, TEXAS

**MEMBERS PRESENT:** David Bailey, John Bartos, Robert Bruner, Reed Eichelberger, Mark Evans, Art Henson, John Howard, Robert Istre, Kathy Jones, Gena Leathers, Ted Long, Carl Masterson, Jimmie Schindewolf, Steve Tyler, C. Harold Wallace, and Pudge Willcox

**DESIGNATED ALTERNATES:** Lisa Lattu for Jun Chang, Brad Brunett for John Hofmann, Jace Houston for Marvin Marcell, Tom Michel for Ron Neighbors, and Robert Stevens for Danny Vance

MEMBERS ABSENT: John Blount, Bob Hebert, Glynna Leiper, James Morrison, and William Teer

NON-VOTING MEMBERS PRESENT: Temple McKinnon and Melinda Silva

PRESIDING: Mark Evans, Chair

CALL TO ORDER REGULAR MEETING AT 10:06 A.M.

A quorum was present.

#### **INTRODUCTIONS**

Mr. Evans welcomed everyone and alternates were announced.

#### **REVIEW AND APPROVE MINUTES OF August 3, 2011 MEETING**

The minutes for the August 3, 2011 meeting were presented. Motion was made by Mr. Tyler, seconded by Mr. Howard, to approve the minutes. The motion carried unanimously.

#### RECEIVE PUBLIC COMMENTS ON SPECIFIC ISSUES RELATED TO AGENDA ITEMS 4 THROUGH 12

There were no public comments.

CONSIDER AND TAKE ACTION ON THE SELECTION OF KATHY JONES AS VOTING MEMBER OF THE REGION H WATER PLANNING GROUP REPRESENTING GMA 14 & CONSIDER AND TAKE ACTION ON THE SELECTION OF DAVID BAILEY AS A VOTING MEMBER OF THE REGION H WATER PLANNING GROUP REPRESENTING GMA 12

Mr. Jace Houston mentioned that although the Agenda stated that an action from the Group was anticipated, no vote was necessary because the new voting members representing local GMAs were assigned to the planning group by statute. Mr. Houston also stated that he will work on a Bylaws amendment to incorporate the changes to the Group's membership.

Mr. Robert Istre asked for comments from Kathy Jones and David Bailey on the area they represent. Ms. Kathy Jones thanked the group and stated that GMA 14 covers the area of southeast Texas from Houston to Louisiana and includes four groundwater conservation districts and two subsidence districts. Mr. David Bailey stated that he looks forward to serving on Region H and mentioned that GMA 12 covers an area north of GMA 14 overlying the Carrizo Wilcox aquifer, including Madison, Leon, and Freestone counties.

## DISCUSS AND TAKE ACTION ON SELECTION OF STANDING COMMITTEES AND APPOINTMENT OF COMMITTEE MEMBERS OF THE 2016 REGION H REGIONAL WATER PLAN

Mr. Reedy continued by discussing a proposal to utilize committees for the 2016 Regional Water Plan and the interest of the Group in forming committees on specific topics, such as population, water demands, WMS selection, regional issues, non-population water demands, and public outreach. He asked the Group to consider whether or not committees would be appropriate, and if so, he requested recommendations on the structuring of same. Mr. Houston briefly discussed the formation of committees in the past and the benefits to forming such committees. Mr. Evans stated that the Group does not have to make a final decision at the meeting. Discussion ensued regarding the formation of committees and restrictions based on the open meetings act.

Mr. Burnett asked Mr. Evans if it would be appropriate for members to email the consultants or Mr. Houston with recommendations of committees the members would like to serve on. Mr. Istre suggested that some consideration be given to alignment of the committees with river basins.

## RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING THE SCHEDULE AND MILESTONES FOR THE FIRST PHASE OF DEVELOPMENT OF THE 2016 REGION H REGIONAL WATER PLAN

Mr. Houston asked several questions regarding the technical memorandum. Ms. McKinnon and Mr. Afinowicz answered the questions and explained the connection between the technical memorandum and funding. Discussion ensued regarding public hearings.

Mr. Afinowicz and Mr. Reedy discussed the schedule and various milestones for the Fourth Cycle of Regional Water Planning, including the scheduled tasks.

# RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING THE PROGRESS OF THE ONGOING REGIONAL GROUNDWATER UPDATE STUDY AND PRELIMINARY POPULATION PROJECTIONS TO BE INCORPORATED INTO THE 2016 REGION H REGIONAL WATER PLAN

Mr. Reedy discussed the project to develop updated groundwater and subsidence models, population projections, and water demand projections. He stated that they have hired two organizations to help with the population projections – Metro Study Group (Housing Surveys) and University of Houston, Dr. Steven Craig (long-term growth modeling). Discussion ensued regarding past issues with changing population projections.

# RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING NON-POPULATION DEMAND PROJECTIONS PRODUCED BY TEXAS WATER DEVELOPMENT BOARD FOR THE 2016 REGION H REGIONAL WATER PLAN

Mr. Afinowicz continued by discussing non-population water demand projections. He discussed irrigation, livestock, manufacturing, mining, and steam electric demand projections. He also stated that all numbers and graphs are on the Region H website. Mr. Tom Michel asked if the projections take into account drought conditions. Ms. McKinnon answered by describing the data sets included in the report. Discussion ensued regarding non-population water demand projections.

### RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING DEVELOPMENT OF WATER SUPPLY PROJECTIONS FOR THE 2016 REGION H REGIONAL WATER PLAN

Mr. Afinowicz stated that the consultant team is working on the development of water supply projections for the 2016 Region H Regional Water Plan. He further stated that the consultants are awaiting TWDB approval of a Region H request to use alternate WAM runs, reviewing TCEQ models for revisions since the 2011 RWP, and coordinating with Regions C and G regarding return flows and model development.

# RECEIVE PRESENTATION FROM CONSULTANT TEAM AND TWDB REGARDING POTENTIAL FOR ACCELERATING SCHEDULE FOR TASK 4D (MANAGEMENT STRATEGY EVALUATION) FOR THE CURRENT PHASE OF PLANNING OF THE 2016 REGION H REGIONAL WATER PLAN

Mr. Reedy discussed Task 4D Management Strategy Evaluation Schedule Acceleration including submittal to TWDB for approval. Mr. Houston suggested that the agenda item be placed on the agenda for the next meeting.

# RECEIVE RECOMMENDATION FROM THE NOMINATIONS COMMITTEE AND TAKE ACTION ON THE SELECTION OF A NEW VOTING MEMBER OF THE REGION H WATER PLANNING GROUP REPRESENTING THE PUBLIC

Mr. Jimmie Schindewolf stated that the Nominations Committee met prior to the Region H meeting and that Mr. Carl Masterson has been nominated for the replacement of Mr.

Alexander. He stated that the Nominations Committee received a number of outstanding candidates for the position. Motion was made by C. Harold Wallace, seconded by Robert Bruner, to approve the nomination of Mr. Carl Masterson as the replacement of Mr. Alexander. The motion carried unanimously.

Mr. Steve Tyler asked for clarification on qualifications for the person that fills the public seat for the group. Discussion ensued regarding the rather broad statutory definition for representation of this interest group.

# RECEIVE REPORT REGARDING RECENT AND UPCOMING ACTIVITIES RELATED TO COMMUNICATIONS AND OUTREACH EFFORTS ON BEHALF OF THE REGION H PLANNING GROUP

Mr. Afinowicz continued by discussing recent community outreach activities. He stated that the consultant team spoke at the following events: *Civic Forum: Water – Challenges Facing the Houston Region; Brazoria County Petrochemical Council; and Drought & Water Today: A Workshop for Galveston County.* 

#### AGENCY COMMUNICATIONS AND GENERAL INFORMATION

Ms. McKinnon updated the Group on the draft of the State Water Plan, including the dates and locations of public meetings and the timeline for submittal of the final document.

#### **RECEIVE PUBLIC COMMENTS**

There were no public comments.

#### **NEXT MEETING**

February 29, 2012
San Jacinto River Authority
General and Administration Building
1577 Dam Site Road
Conroe, Texas 77304

ADJOURNED AT 12:08 P.M.

### Agenda Item 4

Accept the resignation of Reed Eichelberger as a voting member of the Region H WPG representing river authorities.





#### **San Jacinto River Authority**

ADMINISTRATIVE OFFICE P.O. Box 329 • Conroe, Texas 77305 (T) 936.588.3111 • (F) 936.588.3043

February 9, 2012

Mark Evans, Chairman Region H Water Planning Group c/o San Jacinto River Authority PO Box 329 Conroe, TX 77305

Re: Submittal of Resignation from the Region H Water Planning Group and Recommendation of Jace Houston to Fill the Vacated Position

Chairman Evans: Mark

I have had the privilege of serving with you on the Region H planning group for over five years, and at this time I would like to announce my resignation from the group. It is most likely that I will retire from the San Jacinto River Authority (SJRA) in the next year or two, and most certainly before the end of this current planning cycle. Since we are in the very early stages of this cycle, it seems appropriate to step down at this time and allow my replacement the benefit of participating in the complete planning cycle.

I would also like to strongly endorse Jace Houston as my replacement. While not a member of the Region H WPG, Jace has, nonetheless, been extremely active in a variety of unofficial roles with Region H since its inception almost 14 years ago. Everyone on the group is well aware of his enthusiasm and energy, and I am excited for Jace to officially represent the SJRA in this worthwhile effort.

Thank you for your continued service as Chair of the group. I value my time spent working with you and the other members and am thankful for the friendships that have evolved.

Best of luck in the future.

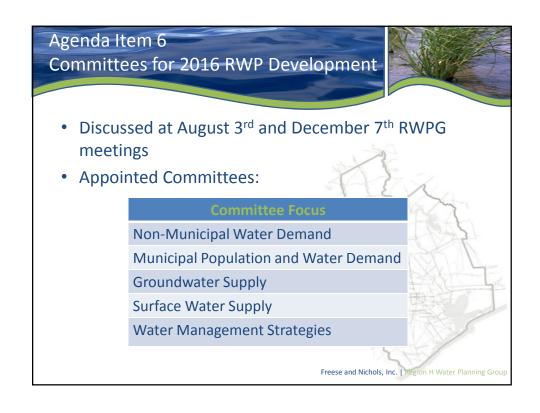
Sincerely,

Reed Eichelberger, P.E. General Manager San Jacinto River Authority

## Agenda Items 6

Receive update on status of committees and appointment of committee members for the 2016 Region H Regional Water Plan.







#### **Non-Population Demands Committee**

Chair: Gená Leathers

John Howard Robert Istre Glynna Leiper Ted Long Pudge Wilcox



#### **Population Demands Committee**

Chair: Marvin Marcell

John Blount
Reed Eichelberger
Art Henson
Carl Masterson
Ron Neighbors
Steve Tyler
Harold Wallace



#### **Groundwater Supply Committee**

**Chair:** Ron Neighbors

David Bailey Kathy Jones James Morrison Bill Teer



#### **Surface Water Supply Committee**

Chair: Reed Eichelberger

Jun Chang John Hofmann Danny Vance Pudge Wilcox



#### **Water Management Strategies Committee**

Co-Chair: John BartosCo-Chair: Bob Hebert

Robert Bruner Jun Chang

Reed Eichelberger John Hofmann Gená Leathers Ron Neighbors Jimmie Schindewolf

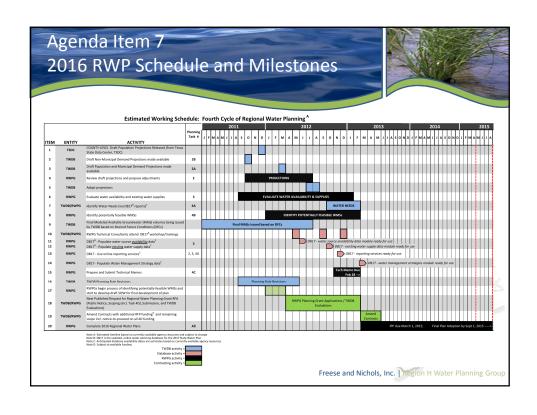
**Danny Vance** 



#### Agenda Items 7

Receive update from Consultant Team regarding the schedule and milestones for the first phase of development of the 2016 Region H Regional Water Plan.







#### Agenda Items 8

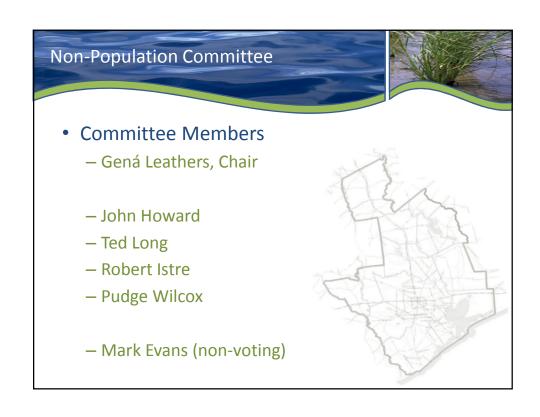
Receive update from Consultant Team and Non-Population Demands Subcommittee regarding Non-Population Demand Projections recommended for the 2016 Region H Regional Water Plan and consider approving submittal to TWDB.



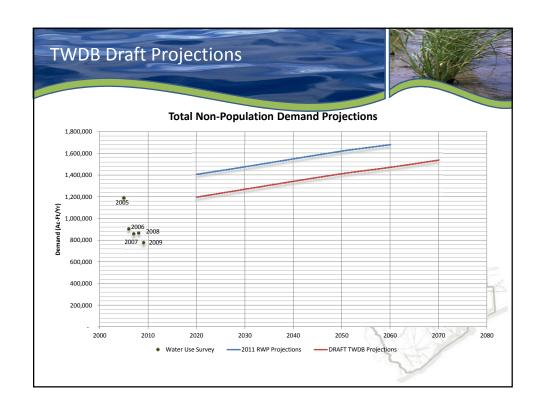
## Non-Population Demand Projections: Presentation Outline

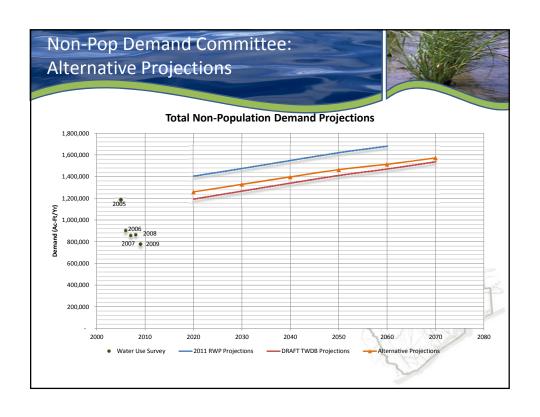
- Modification Process
- Non-Population Demand Committee
- Recommended Non-Pop. Demand Projections





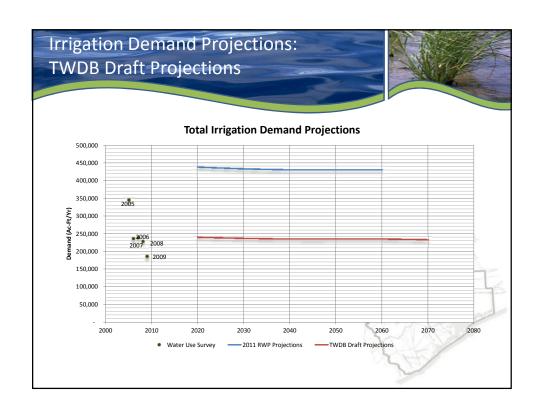


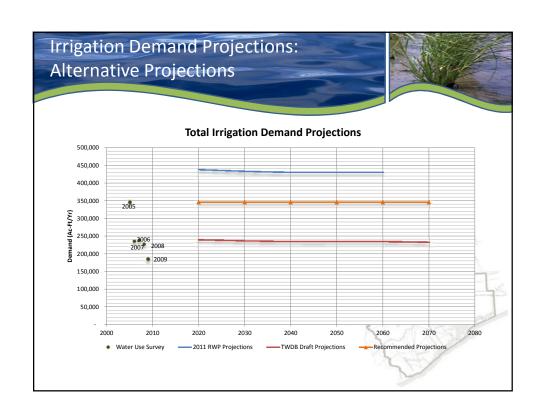


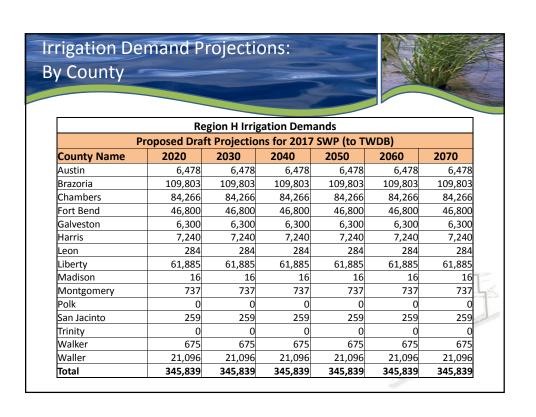


#### Reasons for changes

- Increase in irrigation demands
  - Alternative "maximum use" projections
- Adjust manufacturing demand for some counties
  - Reflective of water use survey analysis
- Verify steam-electric projections
  - Move co-generation facilities to manufacturing

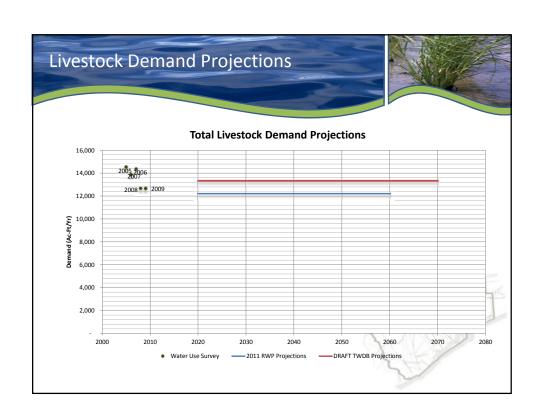




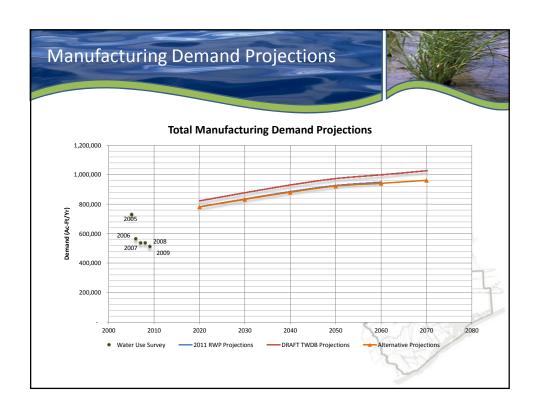


## Irrigation Alternative Projection Methods

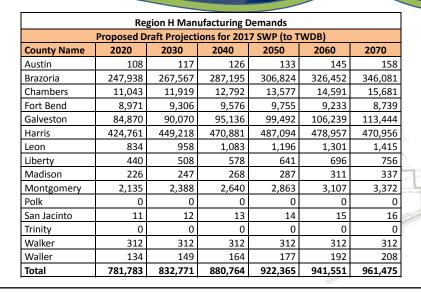
- Demand=Crop Acreage x Irrigation Rate
- Irrigated crop acreages
  - State Data Center Data
  - Contacted County Extension Agents
  - Primarily driven by rice, cotton, corn, etc.
- Crop irrigation rates
  - Assumed maximum irrigation rate per crop



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	R	egion H Live	stock Demar	nds		$\overline{}$
	Proposed Dra				в)	
County Name	2020	2030	2040	2050	2060	2070
Austin	1,523	1,523	1,523	1,523	1,523	1,523
Brazoria	1,650	1,650	1,650	1,650	1,650	1,650
Chambers	554	55	554	554	554	554
Fort Bend	1,052	<b>1</b> ,052	1,052	1,052	1,052	1,052
Galveston	254	254	254	254	254	254
Harris	1,667	1,667	IO CHÁNGE	S FROM	1,667	1,667
Leon	1,728	1,728		)raft 1,728	1,728	1,728
Liberty	873	873	873	873	873	873
Madison	1,024	1,024	1,024	1,024	1,024	1,024
Montgomery	521	321	521	521	521	521
Polk	144	144	144	144	144	144
San Jacinto	386	386	386	386	386	386
Trinity	249	249	249	249	249	249
Walker	652	652	652	652	652	652
Waller	1,069	1,069	1,069	1,069	1,069	1,069
Total	13,346	13,346	13,346	13.346	13.346	13,346



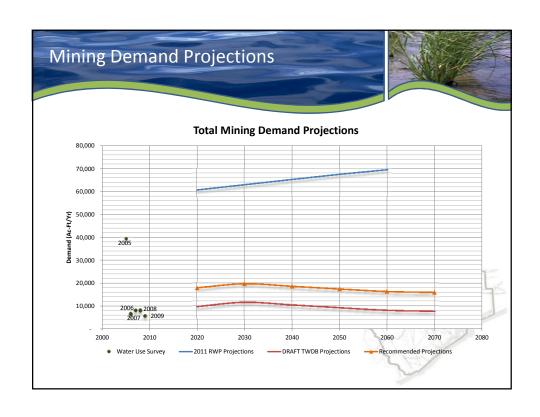
# Manufacturing Demand Projections by County

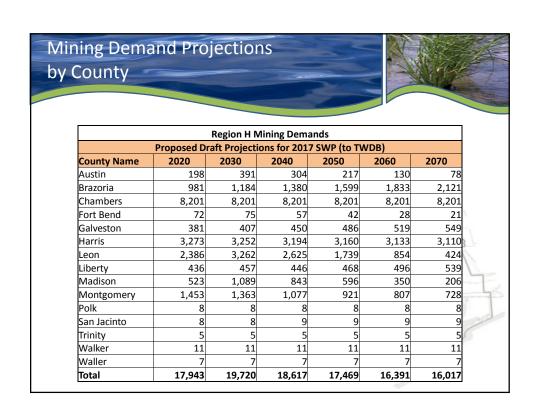


# Manufacturing Alternative Projection Methods



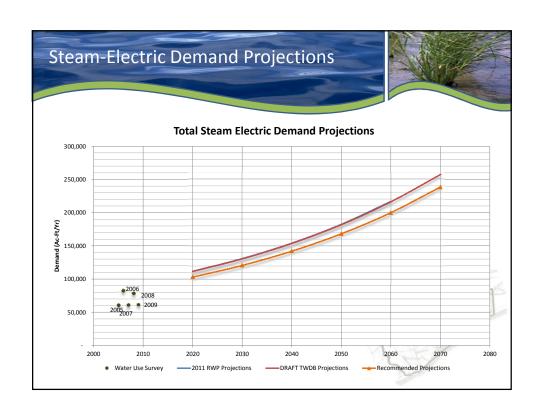
- Brazoria County
  - Follow trends of 2001-2009 Water Use Survey
- Walker County
  - Single-user spike in 2000-2001 skews projections
  - Use average of 1968-2008 historic use
- Galveston County
  - Additional data forthcoming from GCWA



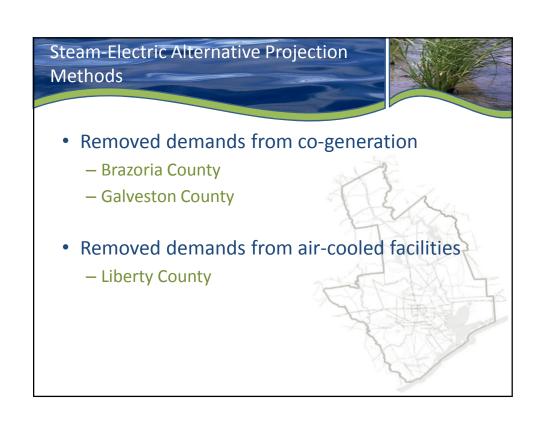


# Mining Alternative Projection Methods

- Chambers County
  - Major sulfur extraction depleted
  - Historical demands highly variable
  - Water User Survey indicates some continued activity
  - Recommend average of 2005-2009 water use



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	Reg	gion H Stear	n-Electric De	mands		
	Proposed Dr	aft Projection	ons for 2017	SWP (to TW	DB)	
County Name	2020	2030	2040	2050	2060	2070
Austin	0	0	0	0	0	
Brazoria	0	0	0	0	0	(
Chambers	3,536	4,134	4,863	5,751	6,834	7,573
Fort Bend	67,762	79,220	93,191	110,219	130,977	156,964
Galveston	0	0	0	0	0	(
Harris	23,556	27,540	32,396	38,316	45,532	54,10
Leon	0	0	0	0	0	(
Liberty	0	0	0	0	0	(
Madison	238	278	327	387	459	546
Montgomery	8,537	9,981	11,741	13,886	16,502	19,61
Polk	0	0	0	0	0	(
San Jacinto	0	0	0	0	0	(
Trinity	0	0	0	0	0	(
Walker	0	0	0	0	0	(
Waller	0	0	0	0	0	(
Total	103,629	121,153	142,518	168,559	200,304	238,80



# Agenda Item 8 Non-Pop. Demand Projections Update

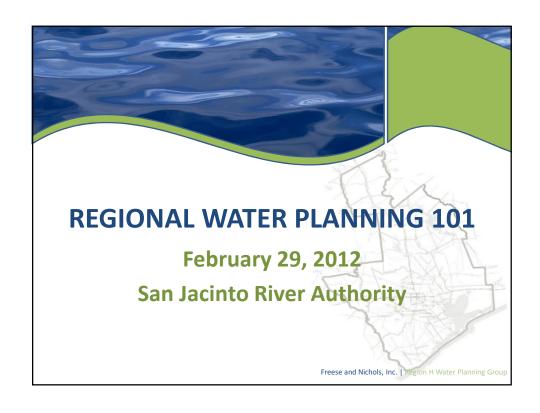
Item 8: Receive update from Consultant Team and Non-Population Demands Subcommittee regarding Non-Population Demand Projections recommended for the 2016 Region H Regional Water Plan. Consider approving submittal to TWDB.

Consider action to approve submittal of the recommended non-municipal water demand projections to TWDB with the exception of Galveston County manufacturing demands.

# Agenda Items 9

Receive presentation from Jace Houston, Consultant Team, and TWDB on the Regional Planning process.



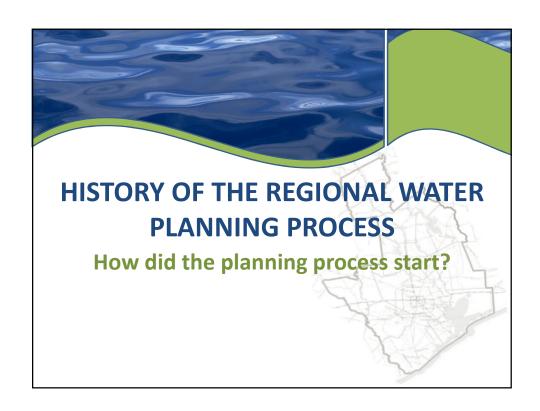


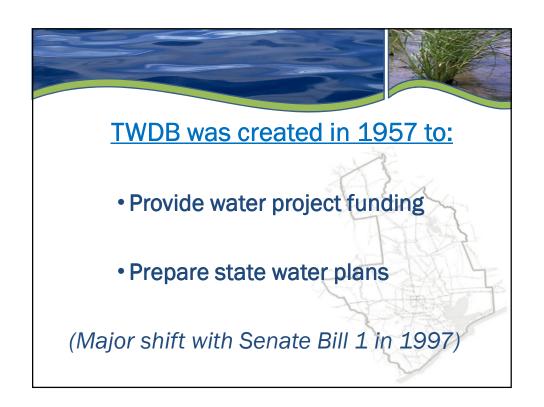
# History of Regional Water Planning in Texas

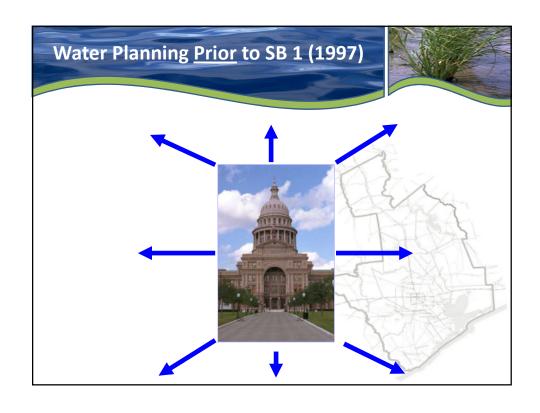
Planning Levels

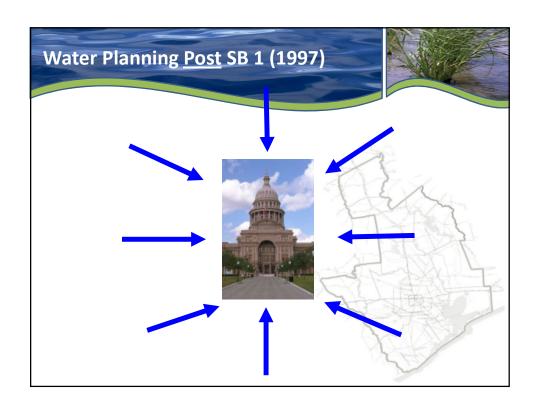
**RWP 101: Presentation Outline** 

- Process of Developing Regional Plans
- Output of Regional Water Plans



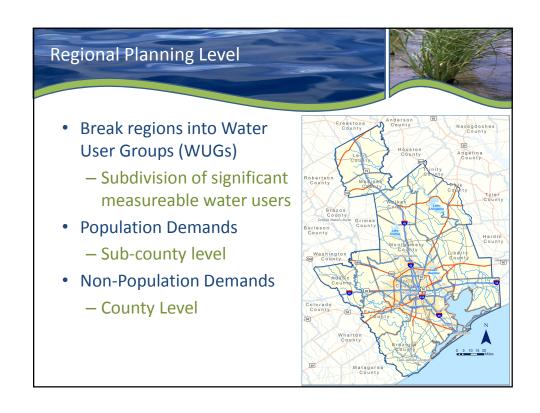


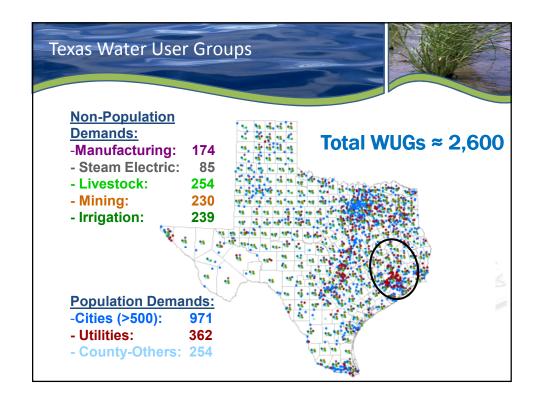




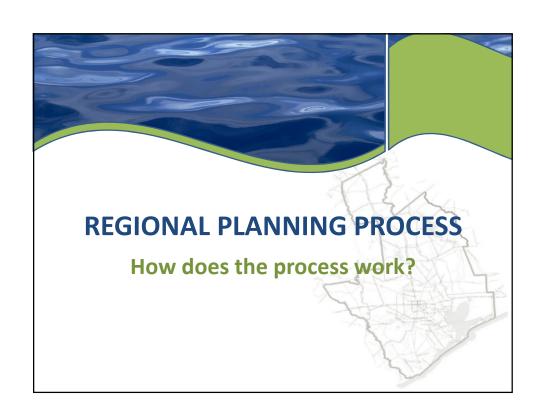


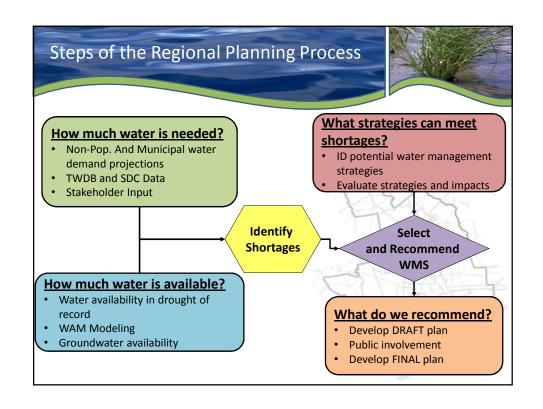


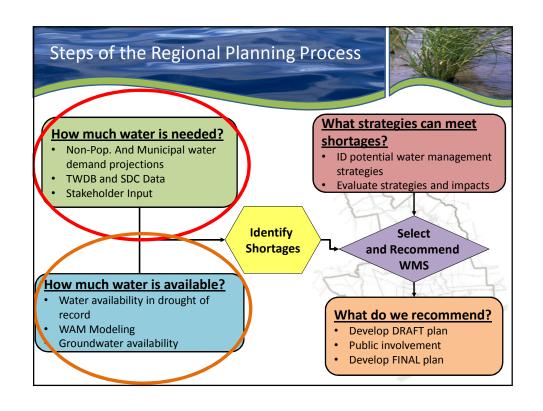


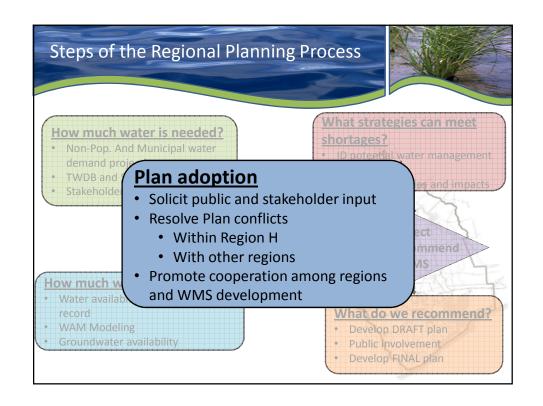


# Regional Planning: What it is vs. What it isn't • What regional planning is: - Builds upon local planning - Coordinated grassroots effort - Long-range regional direction - Opportunity for public communication, outreach, and feedback • What regional planning is NOT: - Replacement for local-level planning - Mandate to implement strategies - Means to fund or implement strategies



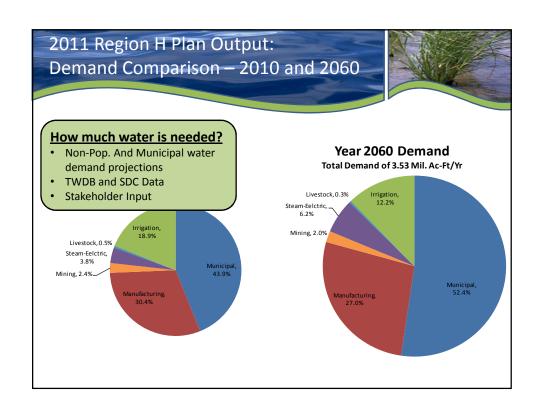


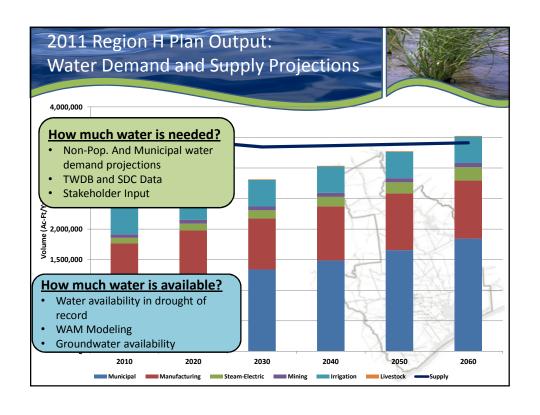


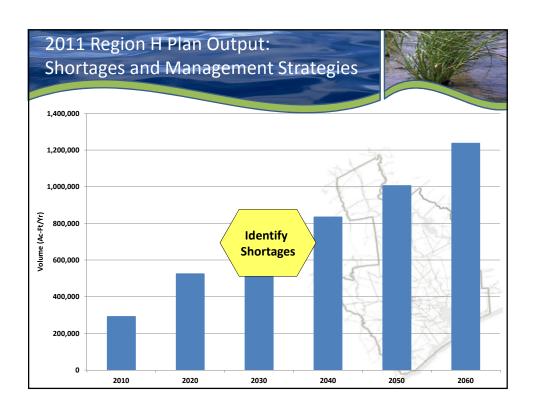


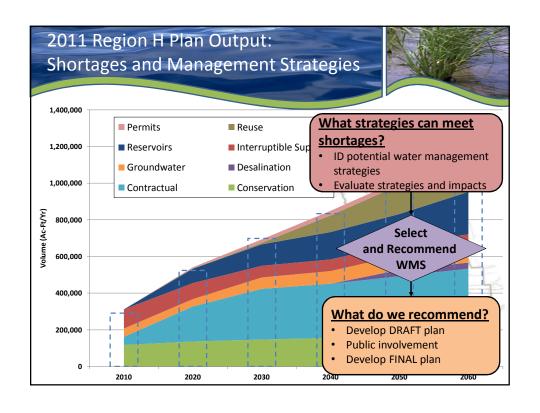


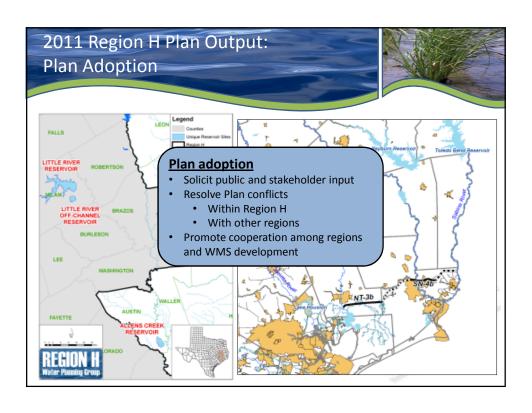
# Regional Planning Outputs • 50 year plan - Demand projections - Supply projections - Shortages - Strategies to meet shortages • Uncertainty increases over time • No mandate to implement strategies - Project sponsors conduct detailed studies and complete projects - Strategies must be included in plan for TWDB project funding • Repeated every 5 years











# Agenda Items 10

Receive presentation from TWDB on Draft Rule Revisions related to Regional Water Planning.



# Texas Regional Water Planning Prepublication Rule Revisions

February 2012 | Temple McKinnon

TWDB Regional Water Planning



#### **Texas Statute and Administrative Rules**

#### Texas Water Code, Ch. 16, SubCh. C:

- Section 16.051: State Water Plan
- Section 16.053: Regional Water Planning

#### Texas Admin Code, Title 31, Part 10:

- \*Chapter 357: Regional Water Planning
- Chapter 358: State Water Planning
- Chapter 355: Research & Planning Funding

<sup>\*</sup>prepublication draft sent to stakeholders in Dec.

#### **Rule Revision Process**

Obtain initial input for early draft from:

- State agencies
- RWPG members
- Other stakeholders

Develop formal draft rule revisions for publication

- Obtain Board Approval to publish
- Publish and accept comment (30 days)

Revise and adopt final rules

## In drafting rule revisions TWDB staff...

- began by reorganizing current rule content
- retaining original language where possible

#### then:

- made substantive revisions to language
- removed statutory and other language where possible

## **Existing Rules**

- §357.1. General
- §357.2. Definitions
- §357.3. Designation of Regional Water Planning Areas
- §357.4. Designation of Regional Water Planning Groups
- §357.5. Guidelines for Development of Regional Water Plans
- §357.6. Preplanning
- §357.7. Regional Water Plan Development
- §357.8. Ecologically Unique River and Stream Segments
- §357.9. Unique Sites for Reservoir Construction
- §357.10. Format of Information to be Presented in Regional Water Plans
- §357.11. Adoption of Regional Water Plans by Regional Water Planning Groups
- §357.12. Notice and Public Participation
- §357.13. Consistency with Regional Water Plan
- §357.14. Approval of Regional Water Plans by the Board
- §357.15. Interaction with Groundwater Conservation District Management Plans
- §357.16. Minor Amendments and Clean Coal Project Amendments to Regional Water Plans and State Water Plan

# **Prepublications Rule Revisions**

- $\S 357.A. \ Definitions and Acronyms$
- 357.B. Designations
- §357.C. General Regional Water Planning Group Responsibilities and Procedures
- §357.D. Guidance Principles for State and Regional Water Planning
- §357.E. Notice and Public Participation
- $\S 357.F.$  General Considerations for Development of Regional Water Plans
- $\S 357.G.$  Description of the Regional Water Planning Area
- §357.H. Projected Population and Water Demands
- §357.I. Water Supply Analysis
- §357.J. Comparison of Water Supplies and Demands (Needs analysis)
- $\S 357.K.$  Identification and Evaluation of Potentially Feasible Water Management Strategies

#### §357.L. Drought Response Information, Activities, and Recommendations

- §357.M. Recommended Water Management Strategies and Alternative Water Management Strategies
- §357.N. Regulatory, Administrative, or Legislative Recommendations
- §357.0. Infrastructure Financing Analysis
- $\S 357.P.$  Consistency with Long-term Protection of water resources, agricultural resources, and Natural Resources

#### §357.Q. Changes to the Regional Water Plan

- §357.R. Adoption, Submittal, and Approval of Regional Water Plans
- §357.S. Consistency of Regional Water Plans
- §357.T. Intraregional Conflicts in Development of Regional Water Plans
- §357.U. Failure of a Regional Water Plan to Meet Regional Water Planning Requirements
- §357.V. Interregional Conflicts
- §357.W. Conflicts Between Regional Water Plans and Groundwater Management Plans
- §357.X. Amendments to Regional Water Plans

# **Purpose of Revisions**

## Align with statute:

- Related to GMA representation
- Use of MAGs
- Obtain information on implementation of water management strategies

# **Purpose of Revisions**

## Consolidate and organize existing rules:

- Eliminate redundancy
- Simplify & shorten sections
- Provide logical order that aligns with practice

# **Purpose of Revisions**

### Update planning process:

- To support other state agency drought activities
- Improve planning process and plan content
- To elevate certain existing guidance requirements

# **New Proposed Plan Sections or Chapters**

- Consolidation of drought plans/activities
- Summary of changes since last plan (TWDB would assist with data summaries)

# Significant New Proposed Analyses/Content

- Identification of potential emergency sources for smaller entities
- Evaluate implementation of last plan

# Significant New Proposed Analyses/Content (to be provided by TWDB)

- Secondary needs analysis
- 'Planning safety factor'

## **Additional Significant Proposed Revisions**

- Simplified public notice requirements
- Clarified water availability & supply analyses to better align with practice

## **Questions?**

#### **Texas Water Development Board**

Temple McKinnon <a href="mailto:temple.mckinnon@twdb.texas.gov">temple.mckinnon@twdb.texas.gov</a>

# Agenda Items 12

Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the Region H Planning Group.



