



MEETING MATERIALS

May 6, 2009

San Jacinto River Authority

Region H Water Planning Group
10:00 AM Wednesday
May 6, 2009
San Jacinto River Authority Office
Lake Conroe Dam, 1577 Dam Site Rd.
Conroe, Texas

Agenda

1. Introductions.
2. Review and approve minutes of February 4, 2009 meeting.
3. **Receive public comments on specific issues related to agenda items 6 through 13**
(Public comments to be limited to 3 minutes per speaker).
4. Receive presentation from consultant on the results of the population and water demand projection analysis (Task 2) including revised municipal and steam-electric demands.
5. **Receive public comment on Item 4.**
6. Consider and take action on approving the submittal of revised population and water demand projections to the Texas Water Development Board (TWDB).
7. Receive presentation from Consultant on the status of water supply analysis (Task 3), including the approval of the use of alternatives to WAM Run 3 firm yields for determining regional supplies.
8. Receive presentation from Consultant on the proposed methodology for selection of water management strategies (WMS) (Task 4).
9. Consider and take action approving the WMS selection approach described under Item 8.
10. Receive presentation from David Kasper, HDR/Claunch & Miller, regarding the consistency of the 2006 Regional Water Plan regarding Harris County WCID 21.
11. Consider and take action as necessary regarding Item 10.
12. Receive updates by local water agencies or other interested parties regarding any water-related initiatives or projects currently underway or planned.
13. Agency communications
14. **General public comments.** (Public comments to be limited to 3 minutes per speaker).
15. Next Meeting: June 3, 2009 (if needed); July 1, 2009 regular meeting.
16. Adjourn.

Agenda Item 2

Review and approve minutes of February 4, 2009 meeting.

**MINUTES
REGION H WATER PLANNING GROUP MEETING
10:00 A.M.
FEBRUARY 4, 2009
SAN JACINTO RIVER AUTHORITY OFFICE
LAKE CONROE DAM
1577 DAMSITE ROAD
CONROE, TEXAS**

MEMBERS PRESENT: Roosevelt Alexander, John Bartos, Reed Eichelberger, Mark Evans, Ted Long, John Howard, Robert Istre, Glynn Leiper, Ronald Neighbors, Jimmie Schindewolf, Jun Chang, Steve Tyler, Mike Uhl, Danny Vance, Harold Wallace, Pudge Willcox

DESIGNATED ALTERNATES: Reeves Gilmore for John Blount, Tom Michel for Marvin Marcell, Jason Pierce for James Morrison, and Jace Houston for William Teer

MEMBERS ABSENT: John Baker, Robert Bruner, Jack Harris, and Bob Hebert

NON-VOTING MEMBERS PRESENT: Temple McKinnon and Melinda Silva

PRESIDING: Mark Evans, Vice-Chair

CALL TO ORDER PUBLIC MEETING AT 10:10 A.M.

MINUTES OF NOVEMBER 5, 2008 MEETING

Motion was made by Harold Wallace to approve the minutes of the November 5, 2008 meeting; seconded by Danny Vance. The motion carried unanimously.

PUBLIC COMMENTS ON AGENDA ITEMS 4 – 15

Brandt Mannchen commented on the Environmental Flows Study Draft Report (agenda Item No. 11). He began by thanking Region H for conducting the environmental flows analysis. He continued by distributing a written summary of his personal comments and then he discussed each of the specific comments.

Ken Kramer with the Sierra Club commented on the submittal of the Drought Management Study Draft Report to the Texas Water Development Board on or before March 31, 2009 (agenda Item No. 9). He expressed concern over the focus of reservoir levels in the report to serve as trigger mechanisms for water usage cutbacks. Mr. Kramer questioned a statement in the conclusion of the report pertaining to the relevance of drought contingency plans since they are based on the drought of record. He proposed that in the third round of regional planning that the issue of drought contingency be revisited. His formal written comments on the Drought Management Study Draft Report will be submitted this spring. He continued by briefly commenting on agenda Item No. 11 pertaining to the Environmental Flows Study Draft Report. Mr. Kramer spoke on Region C's management strategies, reuse projects, and the impact on

flows. In summary, he informed everyone that the Texas Parks and Wildlife Department's *Texas the State of Flowing Water* would air on PBS on February 12th at 8:00 p.m.

ACCEPT THE RESIGNATION OF JOHN BAKER AS A VOTING MEMBER OF THE REGION H REGIONAL WATER PLANNING GROUP REPRESENTING RIVER AUTHORITIES

A motion was made by Danny Vance to accept the resignation of John Baker; seconded by Ronald Neighbors. The motion carried unanimously.

CONSIDER AND TAKE ACTION ON THE NOMINATION AND APPOINTMENT OF JOHN HOFMANN (CENTRAL AND LOWER REGION MANAGER FOR BRAZOS RIVER AUTHORITY) AS A VOTING MEMBER OF THE REGION H REGIONAL WATER PLANNING GROUP REPRESENTING RIVER AUTHORITIES

A motion was made by Robert Istre to accept the nomination and appointment of John Hofmann as a voting member of the Region H Water Planning Group representing river authorities; seconded by Danny Vance. The motion carried unanimously.

ACCEPT THE RESIGNATION OF JACK HARRIS AS A VOTING MEMBER OF THE REGION H REGIONAL WATER PLANNING GROUP REPRESENTING COUNTIES

A motion was made by Ronald Neighbors to accept the resignation of Jack Harris as a voting member of the Region H Regional Water Planning Group; seconded by Danny Vance. The motion carried unanimously.

RECEIVE RECOMMENDATIONS FROM THE NOMINATING COMMITTEE FOR CALENDAR YEAR 2009 EXECUTIVE COMMITTEE MEMBERS

Jimmy Schindewolf made recommendations on behalf of the Nominating Committee for the 2009 Executive Committee as follows:

Chair	Mark Evans
Vice-Chair	Ronald Neighbors
Secretary	Reed Eichelberger
Member	C. Harold Wallace
Member	John R. Bartos

TAKE ACTION ON THE APPOINTMENT OF EXECUTIVE COMMITTEE MEMBERS OF THE REGION H REGIONAL WATER PLANNING GROUP FOR CALENDAR YEAR 2009

A motion was made by Danny Vance to approve the recommended nominations as Jimmy Schindewolf presented on behalf of the Nominating Committee; seconded by Bob Hebert. The motion carried unanimously.

CONSIDER AND TAKE ACTION ON APPROVING THE DROUGHT MANAGEMENT STUDY DRAFT REPORT FOR SUBMITTAL TO THE TEXAS WATER DEVELOPMENT (TWDB) ON OR BEFORE MARCH 31, 2009

Mike Reedy with AECOM stated that there have been no official comments to date on the plan other than verbal comments received at the last meeting. Mr. Reedy stated that all comments have been addressed and clarifications made as needed. A motion was made by Ron Neighbors to approve the Drought Management Study Draft Report for submittal to the TWDB; seconded by Roosevelt Alexander. The motion carried unanimously.

CONSIDER AND TAKE ACTION ON APPROVING THE INTERRUPTIBLE SUPPLY STUDY DRAFT REPORT FOR SUBMITTAL TO THE TEXAS WATER DEVELOPMENT BOARD (TWDB) ON OR BEFORE MARCH 31, 2009

Mike Reedy with AECOM reviewed the amendments to the scope of work for interruptible supplies. In order to fulfill the contractual agreement with the Texas Water Development Board, he requested approval for the Interruptible Supplies Study to be submitted to the TWDB on or before March 31, 2009. A motion was made by Danny Vance to approve the Interruptible Supply Study Draft Report for submittal to the TWDB; seconded by Roosevelt Alexander. The motion carried unanimously.

RECEIVE PRESENTATION FROM CONSULTANT ON THE RESULTS OF THE ENVIRONMENTAL FLOWS STUDY DRAFT REPORT

Mike Reedy with AECOM started his presentation by thanking the Environmental Flows Committee for their input on the study. He explained the purpose of the study and presented an overview of the project. A brief discussion ensued regarding future challenges of implementing measures to meet environmental flow targets. John Bartos, Chair of the Environmental Flows Committee briefly commented on the committee's discussions concerning the study.

RECEIVE PUBLIC COMMENTS ON ITEM 11

No comments received.

CONSIDER AND TAKE ACTION ON APPROVING THE ENVIRONMENTAL FLOWS STUDY DRAFT REPORT FOR SUBMITTAL TO THE TEXAS WATER DEVELOPMENT BOARD (TWDB) ON OR BEFORE MARCH 31, 2009

A motion was made by Reed Eichelberger to approve the Environmental Flow Study Draft Report for submittal to the Texas Water Development Board; seconded by Ron Neighbors. The motion carried unanimously.

RECEIVE PRESENTATION FROM CONSULTANT ON THE STATUS OF CURRENT PLANNING AND FUTURE WORK SCHEDULE FOR THE 2011 REGION H REGIONAL WATER PLAN

Mike Reedy presented information on the 2011 Regional Water Plan development. He discussed the development of population projections at the county, WUG, and county-other level and asked for the planning group's input on gathering this data. Discussion followed regarding the completion of surveys. Robert Istre commented regarding the inclusion industrial demand information. Mike Reedy explained how the population projections are used in developing the water demands for the 2011 Regional Water Plan. Temple McKinnon commented on the population projections and water demands and presented the planning group with a summary of the Texas Water Development Board's study entitled "Water Demand Projections for Power Generation in Texas" dated January, 2009. Mr. Reedy stated that he would come back with recommendations associated with this item. In summary, Mr. Reedy presented a schedule of deliverables and explained the need to hold more frequent meetings in order to meet the upcoming deadlines.

CONSIDER AND TAKE ACTION ON REQUESTING APPROVAL FROM THE TWDB FOR POTENTIAL USE OF ALTERNATIVES TO USING WAM RUN 3 MODELS AND POTENTIAL USE OF ALTERNATIVES TO FIRM YIELD FOR DEFINING REGIONAL WATER SUPPLIES IN REGION H

After a brief discussion, motion was made by Danny Vance to request approval from the TWDB for use of alternatives to WAM Run 3 and the potential use of alternatives to firm yield for defining regional water supplies in Region H; seconded by Ronald Neighbors. The motion carried unanimously.

RECEIVE PRESENTATION FROM REPRESENTATIVES OF MONTGOMERY COUNTY MUD 8 AND 9 REGARDING PLANNING FOR A REGIONAL REUSE PROJECT AND DISCUSSION OF POTENTIAL AMENDMENTS TO THE REGION H PLAN TO ALLOW FOR ADDITIONAL REUSE PROJECTS

Dan Davis appeared on behalf of MUD 8 and MUD 9 and presented information on planning for water recycling projects and the potential for amendments to the Region H plan. Mike Reedy and Temple McKinnon met with Mr. Davis to discuss this matter. Mr. Reedy explained that small reuse projects are not identified in the plan and that they are not looking to amend the plan.

RECEIVE UPDATES BY LOCAL WATER AGENCIES OR OTHER INTERESTED PARTIES REGARDING ANY WATER RELATED INITIATIVES OR PROJECTS CURRENTLY UNDERWAY OR PLANNED

Danny Vance wanted to make everyone aware that Mike Reedy recently made a presentation on the Environmental Flows Study to the Chairman of the Environmental Flows Science Advisory Committee, Bob Huston.

Temple McKinnon gave an update on the retirement of Bill Mullican, Deputy Executive Administrator for Water Science and Conservation and stated that Robert Mace will be filling his position.

Jason Pierce with the City of Huntsville inquired as to the vacant position of Jack Harris. Mark Evans confirmed that recommendations will be considered at the next meeting.

GENERAL PUBLIC COMMENTS

Dan Davis commented on the challenges of distributing Region H surveys and requests for information to various public utility districts. He requested to be included on future correspondence with his MUD.

AGENCY COMMUNICATIONS

None.

NEXT MEETING:

May 6, 2009
San Jacinto River Authority
Lake Conroe Dam
1577 Damsite Road
Conroe, Texas 77305

ADJOURNED AT 12:20 P.M.

Agenda Items 4 - 9

Receive presentation from consultant on the results of the population and water demand projection analysis (Task 2) including revised municipal and steam-electric demands.

Receive public comment on Item 4.

Consider and take action on approving the submittal of revised population and water demand projections to the Texas Water Development Board (TWDB).

Receive presentation from Consultant on the status of water supply analysis (Task 3), including the approval of the use of alternatives to WAM Run 3 firm yields for determining regional supplies.

Receive presentation from Consultant on the proposed methodology for selection of water management strategies (WMS) (Task 4).

Consider and take action approving the WMS selection approach described under Item 8.



2011 Regional Water Plan Schedule

REGION H
Water Planning Group

Date	Event	Items Due
02/04/09	RWPG Meeting	No Deliverables
05/06/09	RWPG Meeting	Population and Water Demand Projections for Consideration by RWPG
07/01/09	RWPG Meeting	Draft Chapters 2 and 3; Proposed Recommendations and Strategies for Consideration by RWPG
09/02/09	RWPG Meeting	Draft Chapters 4, 5, and 8
10/07/09	RWPG Meeting	Draft Chapters 1, 6, 7, and 9
12/02/09	RWPG Meeting	Draft Initially Prepared Plan
03/01/10	Due Date	Draft Final Initially Prepared Plan
09/01/10	Due Date	Regional Water Plan

Focus for Today's Meeting

REGION H
Water Planning Group

- **Task 2 – Population and Water Demands**
 - Review revised population and water demand projections for the 2011 RWP.
 - Receive public comment on revised projections.
 - Take action to approve revised projections.
- **Task 3 – Water Supply Analysis**
 - Review procedures and activities for completion of the 2011 RWP.
- **Task 4 – Water Management Strategy Selection**
 - Present WMA selection methodology.
 - Take action to approve selection methodology.



Task 2 – Population and Water Demands

REGION H
Water Planning Group

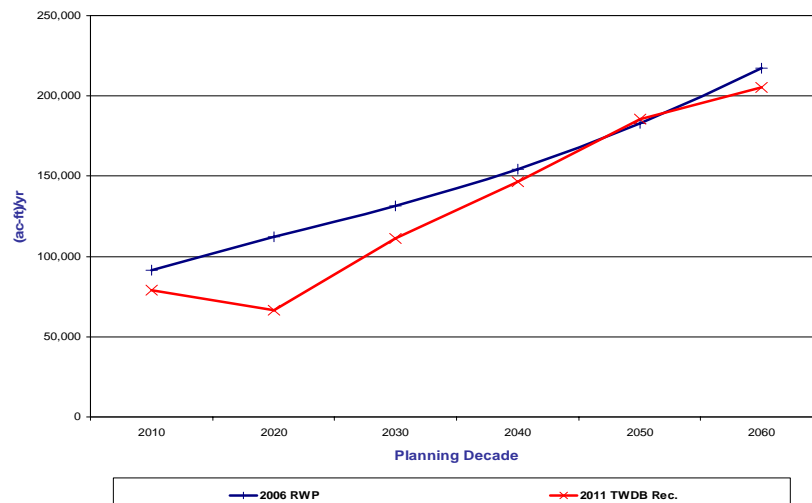
Items for Consideration

- Steam-Electric Demands
- Population Projections
- Municipal Water Demands
- Approval of all Water Demand Projections

Task 2 – Population and Water Demands

REGION H
Water Planning Group

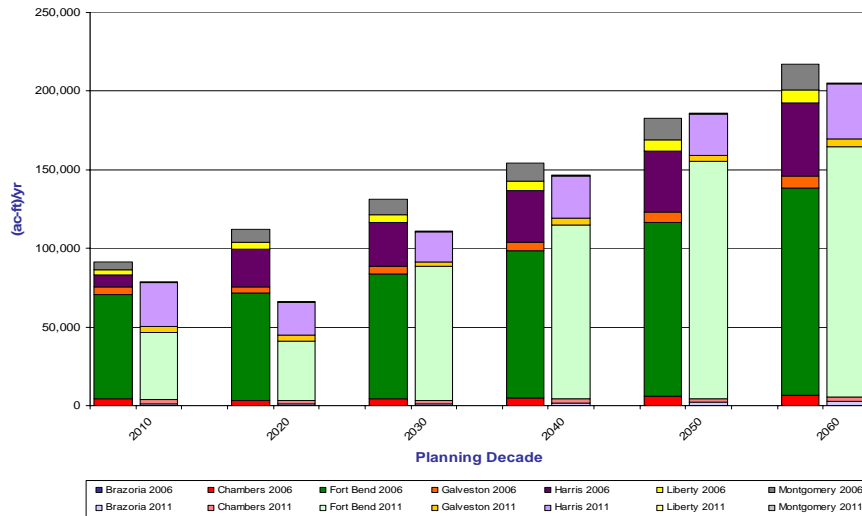
Steam-Electric Demand Alternatives



Steam-Electric Demands by County

REGION H
Water Planning Group

Steam-Electric Demand Alternatives



Task 2 – Population and Water Demands

REGION H
Water Planning Group

Steam-Electric Demand Recommendation

- In general, the total regional steam-electric demands in the 2006 RWP are greater than those proposed for this round
- The methodology used for developing the revised projections result in a decrease in demand in the 2020 decade
- Recommend the retention of the 2006 RWP values for this round of planning

Projection Methodology

- County Population Projections
- WUG-Level Population Projections
 - TWDB-produced alternative projections
 - Input from WUGs
 - Data from Groundwater Reduction Plans
- Municipal Demand Projections
 - Developed by TWDB from Region H population projections
 - Per capita water usage based on baseline Year 2000 TWDB Water Use Survey

County Projection Methodology

- County Control Populations
 - Applied changes to counties with growth greater than 5% of the 2006 RWP projection
 - Harris County did not meet the 5% threshold although it was included due to magnitude of increase
 - Applying change in population as a one-time occurrence
 - Harris County
 - Applying percent change in population as a long-term trend
 - Brazoria, Chambers, Fort Bend, and Montgomery Counties

Task 2 – Population and Water Demands



2008 Projections from Texas State Data Center

- Basis for comparing Region H projections
- Cohort-component projection technique for counties
 - Calculates projections for groups of persons with common characteristics (cohorts)
- For each cohort, projection based on:
 - Base population
 - Birth rate
 - Death rate
 - Migration rate

Task 2 – Population and Water Demands



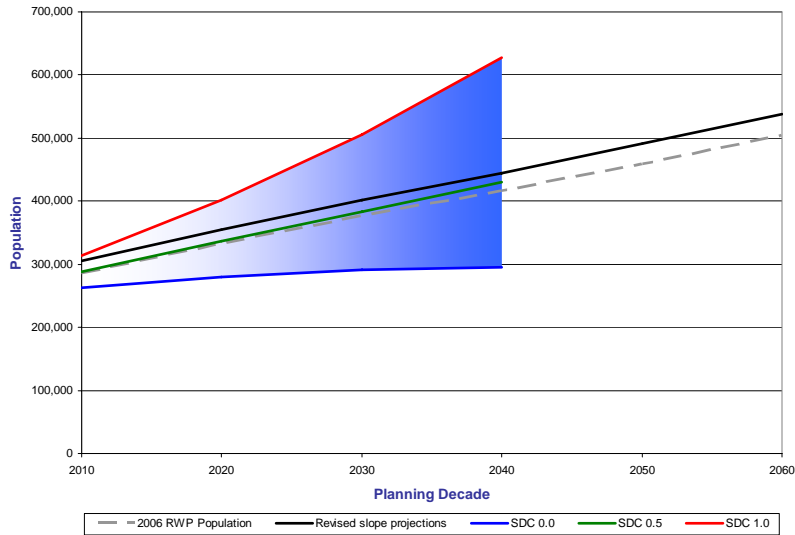
2008 Projections from Texas State Data Center

- Developed projections through 2040 based on 3 migration rate scenarios:
 - 0.0 – Assumes in-migration and out-migration are equal
 - 0.5 – Assumes net migration of ½ the 1990 to 2000 rate
 - 1.0 – Assumes net migration rate for 1990 to 2000 continues

Task 2 – Population and Water Demands

REGION H
Water Planning Group

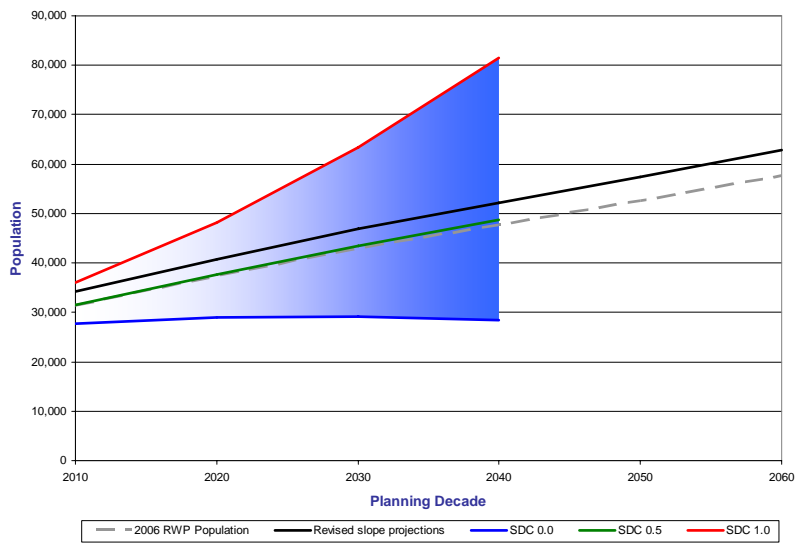
Revised Brazoria County Control Population



Task 2 – Population and Water Demands

REGION H
Water Planning Group

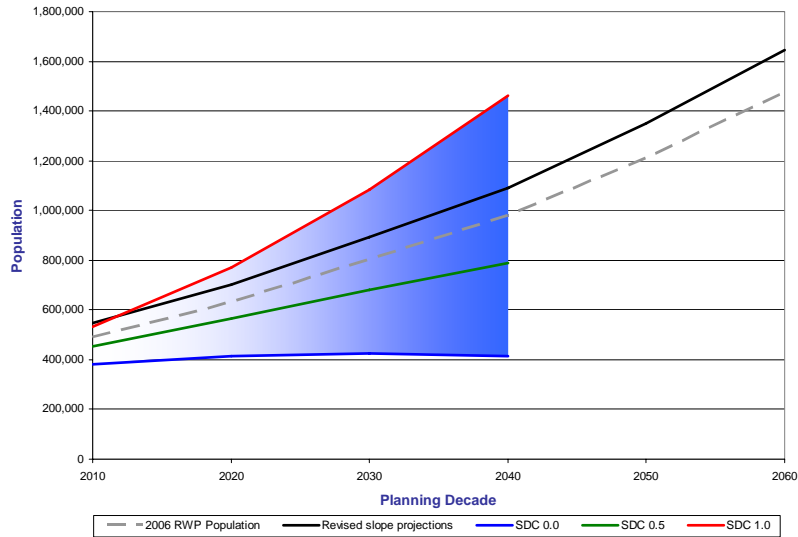
Revised Chambers County Control Population



Task 2 – Population and Water Demands

REGION H
Water Planning Group

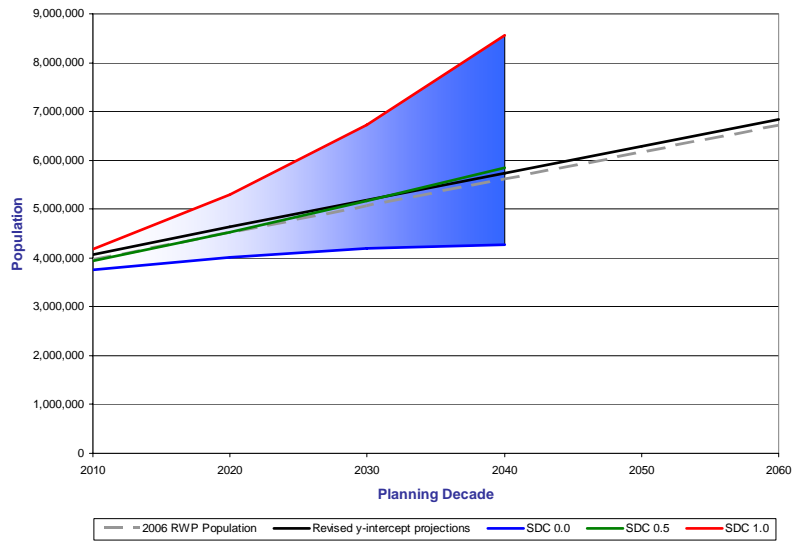
Revised Fort Bend County Control Population



Task 2 – Population and Water Demands

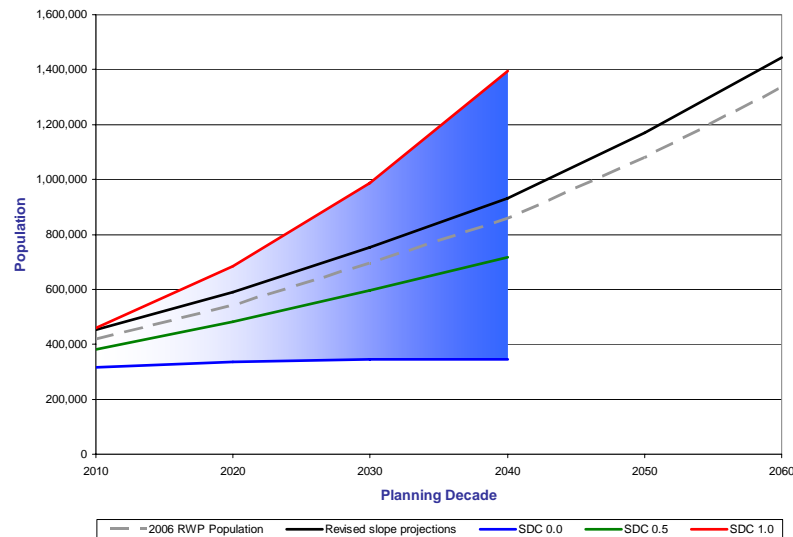
REGION H
Water Planning Group

Revised Harris County Control Population



Task 2 – Population and Water Demands

Revised Montgomery County Control Population



Task 2 – Population and Water Demands

WUG-Level Populations

- Surplus county population (in excess of 2006 RWP values) first distributed to new WUGs and WUGs with known demand revisions
- Applied remaining surplus based on county:
 - Brazoria – No surplus
 - Chambers – Distributed to Trinity Bay Conservation District because 2006 RWP County-Other showed no growth through 2060
 - Fort Bend – No surplus
 - Harris – Surplus represented in County-Other
 - Montgomery – Allocated to all County-Other and utility WUGs based on rate of growth in 2006 RWP

Task 2 – Population and Water Demands

Municipal Demand Projections

- Developed from population projections provided to TWDB
- In general, use per capita demand from 2006 RWP
- Include limited conservation savings from conservation programs, resulting in a decreasing per capita demand over time

Task 2 – Population and Water Demands

Survey Results

WUGs given the opportunity to review projections.

- Developed online database to receive WUG responses
- Received 29 responses from 232 mail-outs – 12.5%
- WUGs informed of criteria to revise projections
 - Credible population estimates such as SDC, expanded service areas
 - More representative DOR condition for per capita demands
- Redeveloped population and demand projections based on input from WUGs

The screenshot shows a web browser window displaying a survey form titled "Region H Water Planning Group Projected Population and Water Demand for 2013 Regional Water Plan". The form includes a "WUG Name" field, a "WUG Contact Person" field, and a table for entering projected population and water demand data for the years 2018, 2020, 2025, 2030, 2035, and 2040. Below the table, there are fields for "Year Date (enter if different than above)", "WUG Projected Population", and "WUG Projected Water Demand". The form also contains a "Submit" button and a "Contact Us" link.

Region H Water Plan	2018	2020	2025	2030	2035	2040
WUG Projected Population						
WUG Projected Water Demand						

Task 2 – Population and Water Demands



Survey Results

29 WUGs that responded to Survey by Deadline

10 WUGs requested Changes

- 10 WUGs requested population changes
 - City of Montgomery
 - City of Panorama Village
 - City of Sugar Land
 - Crosby MUD
 - Fort Bend County MUD #67
 - Fort Bend County MUD #69
 - Montgomery County MUD #8
 - Montgomery County MUD #9
 - North Fort Bend Water Authority
 - Riverside WSC
- 6 WUGs requested per capita changes
 - City of Montgomery
 - City of Panorama Village
 - City of Sugar Land
 - Fort Bend County MUD #67
 - Fort Bend County MUD #69
 - North Fort Bend Water Authority

19 WUGs approved the projections provided in the mail-out

Task 2 – Population and Water Demands



WUG Input Net Differences – Fort Bend County

WUG	Projection	2010	2020	2030	2040	2050	2060
FBC MUD #67	Draft	3,306	3,306	3,306	3,306	3,306	3,306
	WUG	3,759	3,759	3,759	3,759	3,759	3,759
FBC MUD #69	Draft	1,701	1,701	1,701	1,701	1,701	1,701
	WUG	2,086	2,086	2,086	2,086	2,086	2,086
Sugar Land	Draft	89,426	89,426	89,426	89,426	89,426	89,426
	WUG	83,819	101,422	105,000	105,000	105,000	105,000

*Adjustments were made to the County-Other WUG to account for the net differences except for Fort Bend County Planning Decade 2020.

NFBWA Requested a revision of their per capita demand to reflect their GRP values

Task 2 – Population and Water Demands

WUG Input Net Differences – Harris County

WUG	Projection	2010	2020	2030	2040	2050	2060
Crosby MUD	Draft	3,162	3,162	3,162	3,162	3,162	3,162
	WUG	4,734	5,184	5,634	6,084	6,534	6,984
NFBWA	Draft	6,954	6,824	6,875	7,244	7,469	7,429
	WUG	6,954	6,824	6,875	7,244	7,469	7,429

*Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands

WUG Input Net Differences – Montgomery County

WUG	Projection	2010	2020	2030	2040	2050	2060
MC MUD #8	Draft	4,702	5,435	7,084	9,021	11,577	14,548
	WUG	4,060	5,336	6,532	6,967	6,886	6,829
MC MUD #9	Draft	3,290	3,936	5,388	7,093	9,345	11,962
	WUG	2,840	3,864	4,968	5,478	5,559	5,616
Panorama Village	Draft	2,538	2,888	3,572	3,913	3,913	3,913
	WUG	2,160	2,281	2,402	2,523	2,644	2,765
Montgomery	Draft	927	1,290	1,729	2,213	2,851	3,592
	WUG	1,200	5,000	7,500	10,000	12,500	15,000

*Adjustments were made to the County-Other WUG to account for the net differences except for Fort Bend County Planning Decade 2020.

Task 2 – Population and Water Demands

WUG Input Net Differences – San Jacinto County

WUG	Projection	2010	2020	2030	2040	2050	2060
Riverside WSC	Draft	1,887	2,542	3,066	3,393	3,582	3,668
	WUG	2,017	2,542	3,066	3,950	4,485	5,011

*Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands

WUG Input Net Differences – Walker County

WUG	Projection	2010	2020	2030	2040	2050	2060
Riverside WSC	TWDB	4,184	4,612	4,819	4,768	4,780	4,780
	WUG	4,472	4,612	4,819	5,550	5,985	6,530

*Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands

Published Projections

- Posted on Region H Water website on April 22 for public review and comment
- Include all requests for changes made up to deadline.
- Detailed WUG-level projections provided in handouts

Task 2 – Population and Water Demands

Water Demand – Austin County

Type		RWP	2010	2020	2030	2040	2050	2060	
Municipal Population		2006	27,173	30,574	32,946	34,355	35,031	35,958	
		2011	27,173	30,574	32,946	34,355	35,031	35,958	
Water Demand (Ac-Ft/Yr)	Municipal	2006	3,918	4,258	4,494	4,590	4,639	4,756	
		2011	4,123	4,658	5,027	5,191	5,278	5,446	
	Irrigation	2006	10,617	10,617	10,617	10,617	10,617	10,617	
		2011	10,617	10,617	10,617	10,617	10,617	10,617	
	Livestock	2006	1,615	1,615	1,615	1,615	1,615	1,615	
		2011	1,615	1,615	1,615	1,615	1,615	1,615	
	Manufacturing	2006	210	233	253	272	288	313	
		2011	210	233	253	272	288	313	
	Mining	2006	51	56	59	62	65	67	
		2011	51	56	59	62	65	67	
	Steam Electric Power	2006	0	0	0	0	0	0	
		2011	0	0	0	0	0	0	
	TOTAL		2006	16,411	16,779	17,038	17,156	17,224	17,368
			2011	16,616	17,179	17,571	17,757	17,863	18,058

Task 2 – Population and Water Demands

Water Demand – Brazoria County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	285,850	331,731	375,664	416,157	459,078	503,894
		2011	305,649	354,708	401,684	444,981	490,875	538,795
Water Demand (Ac-Ft/Yr)	Municipal	2006	44,685	50,822	56,754	62,022	68,202	74,967
		2011	47,184	53,523	59,656	65,134	71,567	78,598
	Irrigation	2006	135,033	123,115	118,544	115,788	115,788	115,788
		2011	135,033	123,115	118,544	115,788	115,788	115,788
	Livestock	2006	1,614	1,614	1,614	1,614	1,614	1,614
		2011	1,614	1,614	1,614	1,614	1,614	1,614
	Manufacturing	2006	260,239	286,554	309,841	333,348	354,093	379,241
		2011	260,239	286,554	309,841	333,348	354,093	379,241
	Mining	2006	4,104	4,502	4,737	4,969	5,201	5,419
		2011	4,104	4,502	4,737	4,969	5,201	5,419
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	445,675	466,607	491,490	517,741	544,898	577,029
		2011	448,174	469,308	494,392	520,853	548,263	580,660

Task 2 – Population and Water Demands

Water Demand – Chambers County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	31,375	37,328	42,867	47,667	52,535	57,521
		2011	34,282	40,786	46,838	52,083	57,402	62,850
Water Demand (Ac-Ft/Yr)	Municipal	2006	4,625	5,438	6,180	6,824	7,506	8,249
		2011	4,985	5,854	6,648	7,338	8,067	8,863
	Irrigation	2006	117,777	117,777	117,777	117,777	117,777	117,777
		2011	117,777	117,777	117,777	117,777	117,777	117,777
	Livestock	2006	462	462	462	462	462	462
		2011	462	462	462	462	462	462
	Manufacturing	2006	11,802	12,959	13,987	15,011	15,932	17,122
		2011	11,802	12,959	13,987	15,011	15,932	17,122
	Mining	2006	37,422	40,532	42,427	44,286	46,130	47,742
		2011	37,422	40,532	42,427	44,286	46,130	47,742
	Steam Electric Power	2006	4,435	3,536	4,134	4,863	5,751	6,834
		2011	4,435	3,536	4,134	4,863	5,751	6,834
	TOTAL	2006	176,523	180,704	184,967	189,223	193,558	198,186
		2011	176,883	181,120	185,435	189,737	194,119	198,800

Task 2 – Population and Water Demands

Water Demand – Fort Bend County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	490,072	630,624	802,486	979,196	1,210,945	1,475,761
		2011	545,883	715,275	893,875	1,090,710	1,348,851	1,643,825
Water Demand (Ac-Ft/Yr)	Municipal	2006	89,579	111,680	138,770	165,904	202,470	245,404
		2011	98,180	123,852	149,894	178,496	217,213	263,055
	Irrigation	2006	53,455	53,455	53,455	53,455	53,455	53,455
		2011	53,455	53,455	53,455	53,455	53,455	53,455
	Livestock	2006	1,171	1,171	1,171	1,171	1,171	1,171
		2011	1,171	1,171	1,171	1,171	1,171	1,171
	Manufacturing	2006	6,863	7,199	7,468	7,685	7,829	7,410
		2011	6,863	7,199	7,468	7,685	7,829	7,410
	Mining	2006	3,010	3,070	3,105	3,138	3,169	3,196
		2011	3,010	3,070	3,105	3,138	3,169	3,196
	Steam Electric Power	2006	66,026	68,046	79,553	93,582	110,682	131,527
		2011	66,026	68,046	79,553	93,582	110,682	131,527
	TOTAL	2006	220,104	244,621	283,522	324,935	378,776	442,163
		2011	228,705	256,793	294,646	337,527	393,519	459,814

Task 2 – Population and Water Demands

Water Demand – Galveston County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	268,714	284,731	294,218	298,057	300,915	302,774
		2011	268,714	284,731	294,218	298,057	300,915	302,774
Water Demand (Ac-Ft/Yr)	Municipal	2006	46,090	47,390	47,818	47,487	47,393	47,641
		2011	46,090	47,390	47,818	47,487	47,393	47,641
	Irrigation	2006	10,342	10,342	10,342	10,342	10,342	10,342
		2011	10,342	10,342	10,342	10,342	10,342	10,342
	Livestock	2006	325	325	325	325	325	325
		2011	325	325	325	325	325	325
	Manufacturing	2006	41,005	44,330	47,046	49,692	51,967	55,491
		2011	41,005	44,330	47,046	49,692	51,967	55,491
	Mining	2006	265	279	286	293	300	307
		2011	265	279	286	293	300	307
	Steam Electric Power	2006	5,034	4,013	4,692	5,519	6,528	7,757
		2011	5,034	4,013	4,692	5,519	6,528	7,757
	TOTAL	2006	103,061	106,679	110,509	113,658	116,855	121,863
		2011	103,061	106,679	110,509	113,658	116,855	121,863

Task 2 – Population and Water Demands

Water Demand – Harris County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	3,951,682	4,502,786	5,053,890	5,604,994	6,156,098	6,707,202
		2011	4,078,231	4,629,335	5,180,439	5,731,543	6,282,647	6,833,751
Water Demand (Ac-Ft/Yr)	Municipal	2006	677,684	756,765	834,747	915,339	999,189	1,089,188
		2011	706,813	785,055	863,902	942,276	1,024,102	1,112,393
	Irrigation	2006	15,300	15,300	15,300	15,300	15,300	15,300
		2011	15,300	15,300	15,300	15,300	15,300	15,300
	Livestock	2006	1,133	1,133	1,133	1,133	1,133	1,133
		2011	1,133	1,133	1,133	1,133	1,133	1,133
	Manufacturing	2006	395,997	424,761	449,218	470,881	487,094	478,957
		2011	395,997	424,761	449,218	470,881	487,094	478,957
	Mining	2006	1,282	1,434	1,529	1,624	1,720	1,805
		2011	1,282	1,434	1,529	1,624	1,720	1,805
	Steam Electric Power	2006	7,728	23,962	28,015	32,955	38,977	46,317
		2011	7,728	23,962	28,015	32,955	38,977	46,317
	TOTAL	2006	1,099,124	1,223,355	1,329,942	1,437,232	1,543,413	1,632,700
		2011	1,128,253	1,251,645	1,359,097	1,464,169	1,568,326	1,655,905

Task 2 – Population and Water Demands

Water Demand – Leon County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	18,231	21,137	22,863	22,971	22,809	23,028
		2011	18,231	21,137	22,863	22,971	22,809	23,028
Water Demand (Ac-Ft/Yr)	Municipal	2006	2,122	2,364	2,475	2,441	2,400	2,422
		2011	2,128	2,376	2,489	2,456	2,414	2,437
	Irrigation	2006	542	542	542	542	542	542
		2011	542	542	542	542	542	542
	Livestock	2006	1,691	1,691	1,691	1,691	1,691	1,691
		2011	1,691	1,691	1,691	1,691	1,691	1,691
	Manufacturing	2006	714	842	967	1,093	1,207	1,313
		2011	714	842	967	1,093	1,207	1,313
	Mining	2006	1,517	1,464	1,435	1,409	1,384	1,364
		2011	1,517	1,464	1,435	1,409	1,384	1,364
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	6,586	6,903	7,110	7,176	7,224	7,332
		2011	6,592	6,915	7,124	7,191	7,238	7,347

Task 2 – Population and Water Demands

Water Demand – Liberty County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	81,930	94,898	107,335	119,519	132,875	147,845
		2011	81,930	94,898	107,335	119,519	132,875	147,845
Water Demand (Ac-Ft/Yr)	Municipal	2006	10,283	11,370	12,401	13,455	14,670	16,176
		2011	10,470	11,759	12,980	14,211	15,629	17,362
	Irrigation	2006	82,901	82,901	82,901	82,901	82,901	82,901
		2011	82,901	82,901	82,901	82,901	82,901	82,901
	Livestock	2006	757	757	757	757	757	757
		2011	757	757	757	757	757	757
	Manufacturing	2006	393	465	537	611	678	736
		2011	393	465	537	611	678	736
	Mining	2006	8,730	8,753	8,766	8,778	8,790	8,800
		2011	8,730	8,753	8,766	8,778	8,790	8,800
	Steam Electric Power	2006	2,962	4,240	4,957	5,831	6,896	8,195
		2011	2,962	4,240	4,957	5,831	6,896	8,195
	TOTAL	2006	106,026	108,486	110,319	112,333	114,692	117,565
		2011	106,213	108,875	110,898	113,089	115,651	118,751

Task 2 – Population and Water Demands

Water Demand – Madison County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	13,905	14,873	15,644	16,364	17,002	17,560
		2011	13,905	14,873	15,644	16,364	17,002	17,560
Water Demand (Ac-Ft/Yr)	Municipal	2006	1,792	1,864	1,918	1,952	2,007	2,072
		2011	1,793	1,867	1,921	1,954	2,010	2,075
	Irrigation	2006	19	19	19	19	19	19
		2011	19	19	19	19	19	19
	Livestock	2006	750	750	750	750	750	750
		2011	750	750	750	750	750	750
	Manufacturing	2006	260	289	316	343	367	398
		2011	260	289	316	343	367	398
	Mining	2006	24	24	24	24	24	24
		2011	24	24	24	24	24	24
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	2,845	2,946	3,027	3,088	3,167	3,263
		2011	2,846	2,949	3,030	3,090	3,170	3,266

Task 2 – Population and Water Demands

Water Demand – Montgomery County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	417,692	542,051	692,548	858,410	1,077,190	1,331,286
		2011	453,369	588,351	751,702	931,732	1,169,199	1,444,999
Water Demand (Ac-Ft/Yr)	Municipal	2006	68,638	90,346	111,441	133,994	164,466	200,243
		2011	74,350	98,430	121,683	146,476	179,791	218,933
	Irrigation	2006	66	66	66	66	66	66
		2011	66	66	66	66	66	66
	Livestock	2006	510	510	510	510	510	510
		2011	510	510	510	510	510	510
	Manufacturing	2006	2,045	2,332	2,608	2,883	3,126	3,392
		2011	2,045	2,332	2,608	2,883	3,126	3,392
	Mining	2006	480	509	526	543	559	573
		2011	480	509	526	543	559	573
	Steam Electric Power	2006	5,046	8,537	9,981	11,741	13,886	16,502
		2011	5,046	8,537	9,981	11,741	13,886	16,502
	TOTAL	2006	76,785	102,300	125,132	149,737	182,613	221,286
		2011	82,497	110,384	135,374	162,219	197,938	239,976

Task 2 – Population and Water Demands

Water Demand – Polk County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	37,650	42,196	45,779	48,561	51,535	54,380
		2011	37,650	42,196	45,779	48,561	51,535	54,380
Water Demand (Ac-Ft/Yr)	Municipal	2006	4,859	5,230	5,486	5,662	5,913	6,205
		2011	5,062	5,632	6,046	6,335	6,693	7,088
	Irrigation	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	Livestock	2006	134	134	134	134	134	134
		2011	134	134	134	134	134	134
	Manufacturing	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	Mining	2006	29	31	32	33	34	35
		2011	29	31	32	33	34	35
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	5,022	5,395	5,652	5,829	6,081	6,374
		2011	5,225	5,797	6,212	6,502	6,861	7,257

Task 2 – Population and Water Demands

Water Demand – San Jacinto County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	27,443	32,541	36,617	39,159	40,630	41,299
		2011	27,443	32,541	36,617	39,159	40,630	41,299
Water Demand (Ac-Ft/Yr)	Municipal	2006	3,161	3,622	3,972	4,158	4,262	4,329
		2011	3,995	4,591	5,016	5,087	5,118	5,076
	Irrigation	2006	667	667	667	667	667	667
		2011	667	667	667	667	667	667
	Livestock	2006	284	284	284	284	284	284
		2011	284	284	284	284	284	284
	Manufacturing	2006	48	52	56	60	63	68
		2011	48	52	56	60	63	68
	Mining	2006	30	29	28	27	26	26
		2011	30	29	28	27	26	26
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	4,190	4,654	5,007	5,196	5,302	5,374
		2011	5,024	5,623	6,051	6,125	6,158	6,121

Task 2 – Population and Water Demands

Water Demand – Trinity County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	11,571	12,485	12,786	12,631	12,131	11,673
		2011	11,571	12,485	12,786	12,631	12,131	11,673
Water Demand (Ac-Ft/Yr)	Municipal	2006	1,203	1,260	1,255	1,206	1,145	1,102
		2011	1,203	1,260	1,255	1,206	1,145	1,102
	Irrigation	2006	467	467	467	467	467	467
		2011	467	467	467	467	467	467
	Livestock	2006	211	211	211	211	211	211
		2011	211	211	211	211	211	211
	Manufacturing	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	Mining	2006	6	6	6	6	6	6
		2011	6	6	6	6	6	6
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	1,887	1,944	1,939	1,890	1,829	1,786
		2011	1,887	1,944	1,939	1,890	1,829	1,786

Task 2 – Population and Water Demands

Water Demand – Walker County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	70,672	77,915	81,402	80,547	80,737	80,737
		2011	70,672	77,915	81,402	80,547	80,737	80,737
Water Demand (Ac-Ft/Yr)	Municipal	2006	16,512	17,941	18,516	18,146	18,097	18,097
		2011	21,879	24,244	25,074	23,575	22,971	22,251
	Irrigation	2006	11	11	11	11	11	11
		2011	11	11	11	11	11	11
	Livestock	2006	632	632	632	632	632	632
		2011	632	632	632	632	632	632
	Manufacturing	2006	3,208	3,718	4,188	4,666	5,083	5,517
		2011	3,208	3,718	4,188	4,666	5,083	5,517
	Mining	2006	13	13	13	13	13	13
		2011	13	13	13	13	13	13
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	20,376	22,315	23,360	23,468	23,836	24,270
		2011	25,743	28,618	29,918	28,897	28,710	28,424

Task 2 – Population and Water Demands

Water Demand – Waller County

Type		RWP	2010	2020	2030	2040	2050	2060
Municipal Population		2006	41,137	51,175	62,352	74,789	89,598	106,608
		2011	41,137	51,175	62,352	74,789	89,598	106,608
Water Demand (Ac-Ft/Yr)	Municipal	2006	5,393	6,310	7,380	8,530	10,016	11,757
		2011	5,713	7,003	8,469	10,084	12,093	14,454
	Irrigation	2006	22,978	22,978	22,978	22,978	22,978	22,978
		2011	22,978	22,978	22,978	22,978	22,978	22,978
	Livestock	2006	939	939	939	939	939	939
		2011	939	939	939	939	939	939
	Manufacturing	2006	89	101	112	123	133	144
		2011	89	101	112	123	133	144
	Mining	2006	80	80	80	80	80	80
		2011	80	80	80	80	80	80
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	29,479	30,408	31,489	32,650	34,146	35,898
		2011	29,799	31,101	32,578	34,204	36,223	38,595

Task 2 – Population and Water Demands

Water Demand – Region H Total

Type	RWP	2010	2020	2030	2040	2050	2060	
Municipal Population	2006	5,775,097	6,707,045	7,679,397	8,653,377	9,739,109	10,897,526	
	2011	6,015,840	6,990,980	7,986,480	8,998,002	10,132,237	11,346,082	
Water Demand (Ac-Ft/Yr)	Municipal	2006	980,544	1,116,660	1,253,607	1,391,710	1,552,375	1,732,608
		2011	1,033,968	1,177,494	1,317,878	1,457,306	1,621,483	1,806,775
	Irrigation	2006	450,175	438,257	433,686	430,930	430,930	430,930
		2011	450,175	438,257	433,686	430,930	430,930	430,930
	Livestock	2006	12,228	12,228	12,228	12,228	12,228	12,228
		2011	12,228	12,228	12,228	12,228	12,228	12,228
	Manufacturing	2006	722,873	783,835	836,597	886,668	927,860	950,102
		2011	722,873	783,835	836,597	886,668	927,860	950,102
	Mining	2006	57,043	60,782	63,053	65,285	67,501	69,457
		2011	57,043	60,782	63,053	65,285	67,501	69,457
	Steam Electric Power	2006	91,231	112,334	131,332	154,491	182,720	217,132
		2011	91,231	112,334	131,332	154,491	182,720	217,132
	TOTAL	2006	2,314,094	2,524,096	2,730,503	2,941,312	3,173,614	3,412,457
		2011	2,367,518	2,584,930	2,794,774	3,006,908	3,242,722	3,486,624

Task 2 – Population and Water Demands

Population and Water Demand Approval

- Approval of population and water demands by the RWPG is required before submittal for TWDB approval.
- Projections were posted 14 days in advance of this meeting, per 31 TAC 357.5 (d) (2).
- Once approved, projections will be submitted to TWDB for consideration and approval, unless valid requests for revisions are made within next 14 days.

Task 2 – Population and Water Demands



Population and Water Demand Approval

- A valid request for a demand revision will require a revised set of projections to be re-approved at a subsequent meeting following another posting of no less than 14 days.
- Consultant team to evaluate additional revision requests, if any, and bring recommendations back to the RWPG at next meeting.

Task 2 – Population and Water Demands



Requirements for Requesting a Revision

- Population Projections
 - Including, but not limited to the following justifications:
 - population estimates of the Texas State Data Center, or other credible sources, are greater than projected populations used in the 2007 state water plan for the year 2010;
 - population growth rates for a sub-county area as tabulated by the Texas SDC over the most recent five years is substantially greater than growth rates reported by the U.S. Census Bureau between 1990 and 2000;
 - cities have annexed additional land since the 2000 Census; or
 - water utilities have expanded their service areas since last updated by the Texas Commission on Environmental Quality.
- Per Capita Demand
 - if acceptable data sources indicate that a measured gallons per capita per day from years prior to 2000 *is more representative of drought of record conditions*

WUG	COUNTY	BASIN	2011 POPULATIONS					
			2010	2020	2030	2040	2050	2060
BELLVILLE	AUSTIN	BRAZOS	5,213	6,560	7,499	8,057	8,325	8,692
COUNTY-OTHER	AUSTIN	BRAZOS	8,982	7,775	6,933	6,432	6,191	5,862
COUNTY-OTHER	AUSTIN	BRAZOS-COLORADO	2,409	2,739	2,969	3,106	3,172	3,262
COUNTY-OTHER	AUSTIN	COLORADO	226	257	279	292	298	306
SAN FELIPE	AUSTIN	BRAZOS	1,106	1,332	1,490	1,584	1,629	1,691
SEALY	AUSTIN	BRAZOS	7,902	10,421	12,178	13,222	13,723	14,410
WALLIS	AUSTIN	BRAZOS-COLORADO	1,335	1,490	1,598	1,662	1,693	1,735
AUSTIN TOTAL			27,173	30,574	32,946	34,355	35,031	35,958
ALVIN	BRAZORIA	SAN JACINTO-BRAZOS	23,231	25,123	26,935	28,605	30,375	32,223
ANGLETON	BRAZORIA	SAN JACINTO-BRAZOS	19,999	20,900	21,763	22,559	23,402	24,282
BAILEY'S PRAIRIE	BRAZORIA	BRAZOS	121	129	137	144	152	160
BAILEY'S PRAIRIE	BRAZORIA	SAN JACINTO-BRAZOS	623	666	707	745	786	828
BRAZORIA	BRAZORIA	BRAZOS	745	761	776	790	805	820
BRAZORIA	BRAZORIA	BRAZOS-COLORADO	2,316	2,366	2,413	2,456	2,502	2,550
BRAZORIA COUNTY MUD #1	BRAZORIA	SAN JACINTO-BRAZOS	7,517	11,063	14,458	17,587	20,904	24,368
BRAZORIA COUNTY MUD #2	BRAZORIA	BRAZOS	4,857	6,959	8,971	10,826	12,792	14,845
BRAZORIA COUNTY MUD #3	BRAZORIA	SAN JACINTO-BRAZOS	4,987	7,340	9,593	11,669	13,870	16,168
BRAZORIA COUNTY MUD #4	BRAZORIA	SAN JACINTO-BRAZOS	3,438	3,438	3,438	3,438	3,438	3,438
BRAZORIA COUNTY MUD #5	BRAZORIA	SAN JACINTO-BRAZOS	4,743	4,743	4,743	4,743	4,743	4,743
BROOKSIDE VILLAGE	BRAZORIA	SAN JACINTO-BRAZOS	2,282	2,618	2,939	3,235	3,549	3,877
CLUTE	BRAZORIA	SAN JACINTO-BRAZOS	11,217	12,043	12,834	13,563	14,335	15,141
COUNTY-OTHER	BRAZORIA	BRAZOS	509	538	570	602	637	675
COUNTY-OTHER	BRAZORIA	BRAZOS-COLORADO	17,190	18,480	19,719	20,862	22,076	23,342
COUNTY-OTHER	BRAZORIA	SAN JACINTO-BRAZOS	40,875	45,409	50,791	55,708	60,953	66,487
DANBURY	BRAZORIA	SAN JACINTO-BRAZOS	1,747	1,888	2,023	2,148	2,280	2,418
FREEPORT	BRAZORIA	BRAZOS	1,173	1,173	1,173	1,173	1,173	1,173
FREEPORT	BRAZORIA	SAN JACINTO-BRAZOS	14,621	17,833	20,909	23,744	26,749	29,886
HILLCREST	BRAZORIA	SAN JACINTO-BRAZOS	744	767	789	810	832	855
HOLIDAY LAKES	BRAZORIA	SAN JACINTO-BRAZOS	1,141	1,189	1,235	1,278	1,323	1,370
IOWA COLONY	BRAZORIA	SAN JACINTO-BRAZOS	911	1,022	1,129	1,227	1,331	1,440
JONES CREEK	BRAZORIA	BRAZOS-COLORADO	2,130	2,130	2,130	2,130	2,130	2,130
LAKE JACKSON	BRAZORIA	SAN JACINTO-BRAZOS	29,383	32,502	35,488	38,241	41,159	44,205
MANVEL	BRAZORIA	SAN JACINTO-BRAZOS	4,510	4,510	4,510	4,510	4,510	4,510
ORBIT SYSTEMS INC	BRAZORIA	BRAZOS-COLORADO	516	627	733	831	935	1,043
ORBIT SYSTEMS INC	BRAZORIA	SAN JACINTO-BRAZOS	4,201	5,101	5,963	6,758	7,600	8,480
OYSTER CREEK	BRAZORIA	SAN JACINTO-BRAZOS	1,424	1,666	1,897	2,110	2,336	2,572
PEARLAND	BRAZORIA	SAN JACINTO-BRAZOS	82,803	104,912	125,037	143,622	163,286	183,764
RICHWOOD	BRAZORIA	SAN JACINTO-BRAZOS	3,534	3,798	4,050	4,282	4,528	4,785
SOUTHWEST UTILITIES	BRAZORIA	SAN JACINTO-BRAZOS	632	668	703	735	769	804
SURFSIDE BEACH	BRAZORIA	BRAZOS	889	1,020	1,146	1,262	1,385	1,513
SWEENEY	BRAZORIA	BRAZOS-COLORADO	3,895	4,177	4,447	4,696	4,960	5,236
VARNER CREEK UD	BRAZORIA	BRAZOS	2,341	2,852	3,341	3,792	4,270	4,769
WEST COLUMBIA	BRAZORIA	BRAZOS	3,696	3,606	3,520	3,441	3,357	3,269
WEST COLUMBIA	BRAZORIA	BRAZOS-COLORADO	708	691	674	659	643	626
BRAZORIA TOTAL			305,649	354,708	401,684	444,981	490,875	538,795
ANAHUAC	CHAMBERS	NECHES-TRINITY	1,866	2,035	2,192	2,328	2,466	2,607
ANAHUAC	CHAMBERS	TRINITY	539	588	633	672	712	753
BAYTOWN	CHAMBERS	TRINITY-SAN JACINTO	3,754	4,211	4,636	5,004	5,377	5,760
BEACH CITY	CHAMBERS	TRINITY	292	391	483	562	643	726
BEACH CITY	CHAMBERS	TRINITY-SAN JACINTO	2,066	2,762	3,409	3,970	4,539	5,122
COUNTY-OTHER	CHAMBERS	NECHES-TRINITY	410	403	397	394	388	381
COUNTY-OTHER	CHAMBERS	TRINITY	2,054	2,022	1,992	1,966	1,940	1,913
COUNTY-OTHER	CHAMBERS	TRINITY-SAN JACINTO	1,324	1,303	1,284	1,267	1,250	1,233
MONT BELVIEU	CHAMBERS	TRINITY	2,195	2,878	3,513	4,063	4,621	5,193
MONT BELVIEU	CHAMBERS	TRINITY-SAN JACINTO	1,029	1,349	1,647	1,905	2,167	2,435
OLD RIVER-WINFREE	CHAMBERS	TRINITY	1,585	1,755	1,913	2,050	2,189	2,331
TRINITY BAY CONSERVATION DISTRICT	CHAMBERS	NECHES-TRINITY	11,780	14,470	16,975	19,146	21,347	23,602
TRINITY BAY CONSERVATION DISTRICT	CHAMBERS	TRINITY	5,388	6,619	7,764	8,756	9,763	10,794
CHAMBERS TOTAL			34,282	40,786	46,838	52,083	57,402	62,850
ARCOLA	FORT BEND	SAN JACINTO-BRAZOS	2,500	2,750	3,025	3,328	3,661	4,026
BEASLEY	FORT BEND	BRAZOS	62	72	84	97	114	133
BEASLEY	FORT BEND	BRAZOS-COLORADO	639	743	871	1,002	1,174	1,371
COUNTY-OTHER	FORT BEND	BRAZOS	14,278	6,904	22,600	51,476	110,777	180,192
COUNTY-OTHER	FORT BEND	BRAZOS-COLORADO	1,346	404	1,080	1,464	1,967	2,099
COUNTY-OTHER	FORT BEND	SAN JACINTO	920	562	2,415	6,018	14,855	24,278
COUNTY-OTHER	FORT BEND	SAN JACINTO-BRAZOS	6,174	2,812	7,377	28,867	73,882	125,530
FAIRCHILDS	FORT BEND	BRAZOS	929	1,189	1,507	1,834	2,263	2,754
FIRST COLONY MUD #9	FORT BEND	BRAZOS	8,120	8,424	8,728	9,032	9,336	9,640
FORT BEND COUNTY MUD #106	FORT BEND	BRAZOS	3,285	3,285	3,285	3,285	3,285	3,285
FORT BEND COUNTY MUD #108	FORT BEND	BRAZOS	2,817	2,817	2,817	2,817	2,817	2,817
FORT BEND COUNTY MUD #111	FORT BEND	BRAZOS	3,315	3,315	3,315	3,315	3,315	3,315
FORT BEND COUNTY MUD #23	FORT BEND	SAN JACINTO-BRAZOS	5,968	9,084	12,895	16,813	21,952	27,824
FORT BEND COUNTY MUD #25	FORT BEND	SAN JACINTO-BRAZOS	11,336	16,141	22,016	28,057	35,979	45,032
FORT BEND COUNTY MUD #67	FORT BEND	BRAZOS	3,759	3,759	3,759	3,759	3,759	3,759
FORT BEND COUNTY MUD #68	FORT BEND	BRAZOS	3,717	3,717	3,717	3,717	3,717	3,717
FORT BEND COUNTY MUD #69	FORT BEND	BRAZOS	2,086	2,086	2,086	2,086	2,086	2,086
FORT BEND COUNTY MUD #81	FORT BEND	BRAZOS	2,054	2,762	3,628	4,518	5,685	7,019
FULSHEAR	FORT BEND	BRAZOS	664	848	1,072	1,303	1,606	1,951
FULSHEAR	FORT BEND	SAN JACINTO-BRAZOS	434	553	700	851	1,048	1,275
HOUSTON	FORT BEND	SAN JACINTO	23,433	27,408	32,268	37,266	43,820	51,309
HOUSTON	FORT BEND	SAN JACINTO-BRAZOS	16,457	19,249	22,663	26,173	30,776	36,036
KATY	FORT BEND	SAN JACINTO	1,548	2,072	2,712	3,370	4,233	5,220
KENDLETON	FORT BEND	BRAZOS-COLORADO	601	775	1,000	1,290	1,664	2,147
MEADOWS	FORT BEND	SAN JACINTO	6,333	6,333	6,333	6,333	6,332	6,332
MEADOWS	FORT BEND	SAN JACINTO-BRAZOS	628	628	628	628	629	629
MISSOURI CITY	FORT BEND	BRAZOS	1,659	2,088	2,499	2,917	3,206	3,880
MISSOURI CITY	FORT BEND	SAN JACINTO	13,589	17,102	20,468	23,885	26,256	31,779

WUG	COUNTY	BASIN	2011 POPULATIONS					
			2010	2020	2030	2040	2050	2060
HARRIS COUNTY MUD #8	HARRIS	SAN JACINTO	6,225	6,961	7,685	8,402	9,114	9,823
HARRIS COUNTY UD #14	HARRIS	SAN JACINTO	1,699	1,871	2,040	2,208	2,375	2,541
HARRIS COUNTY UD #15	HARRIS	SAN JACINTO	3,259	3,792	4,316	4,835	5,351	5,865
HARRIS COUNTY WCID #1	HARRIS	SAN JACINTO	9,665	11,283	12,874	14,449	16,014	17,573
HARRIS COUNTY WCID #133	HARRIS	SAN JACINTO	4,577	4,652	4,727	4,802	4,877	4,877
HARRIS COUNTY WCID #21	HARRIS	SAN JACINTO	10,120	10,724	11,318	11,906	12,490	13,072
HARRIS COUNTY WCID #36	HARRIS	SAN JACINTO	10,451	11,572	12,674	13,765	14,849	15,929
HARRIS COUNTY WCID #50	HARRIS	SAN JACINTO	4,700	5,284	5,859	6,428	6,993	7,556
HARRIS COUNTY WCID #76	HARRIS	SAN JACINTO	1,788	1,788	1,788	1,788	1,788	1,788
HARRIS COUNTY WCID #84	HARRIS	SAN JACINTO	2,475	2,519	2,562	2,605	2,648	2,691
HEDWIG VILLAGE	HARRIS	SAN JACINTO	2,334	2,334	2,334	2,334	2,334	2,334
HILSHIRE VILLAGE	HARRIS	SAN JACINTO	770	770	770	770	770	770
HOUSTON	HARRIS	SAN JACINTO	2,083,856	2,342,251	2,596,403	2,847,979	3,097,992	3,347,056
HOUSTON	HARRIS	SAN JACINTO-BRAZOS	116,132	130,532	144,696	158,716	172,649	186,529
HUMBLE	HARRIS	SAN JACINTO	16,862	19,085	21,272	23,436	25,587	27,730
HUNTERS CREEK VILLAGE	HARRIS	SAN JACINTO	4,755	5,126	5,491	5,852	6,211	6,568
JACINTO CITY	HARRIS	SAN JACINTO	11,171	12,017	12,849	13,673	14,492	15,308
JERSEY VILLAGE	HARRIS	SAN JACINTO	8,742	10,555	12,338	14,103	15,857	17,604
KATY	HARRIS	SAN JACINTO	17,294	21,438	25,513	29,547	33,556	37,550
LA PORTE	HARRIS	SAN JACINTO	1,915	2,104	2,289	2,473	2,655	2,837
LA PORTE	HARRIS	SAN JACINTO-BRAZOS	33,552	36,856	40,105	43,321	46,518	49,702
LEAGUE CITY	HARRIS	SAN JACINTO-BRAZOS	180	185	190	195	200	205
LONGHORN TOWN UD	HARRIS	SAN JACINTO	1,907	2,753	3,585	4,409	5,228	6,044
MASON CREEK UD	HARRIS	SAN JACINTO	9,050	9,050	9,050	9,050	9,050	9,050
MISSOURI CITY	HARRIS	SAN JACINTO	6,887	8,243	9,577	10,898	12,210	13,517
NASSAU BAY	HARRIS	SAN JACINTO-BRAZOS	4,170	4,170	4,170	4,170	4,170	4,170
NFBWA	HARRIS	SAN JACINTO	6,954	6,824	6,875	7,244	7,469	7,429
NHCRWA	HARRIS	SAN JACINTO	602,401	723,186	816,772	868,302	892,569	915,347
NORTH BELT UD	HARRIS	SAN JACINTO	3,916	5,197	6,457	7,705	8,945	10,180
NORTH GREEN MUD	HARRIS	SAN JACINTO	3,503	3,935	4,359	4,779	5,197	5,613
NORTHWEST HARRIS COUNTY MUD #23	HARRIS	SAN JACINTO	4,482	5,700	6,898	8,084	9,262	10,436
NORTHWEST PARK MUD	HARRIS	SAN JACINTO	10,999	12,271	13,522	14,760	15,990	17,216
PARKWAY UD	HARRIS	SAN JACINTO	2,911	2,932	2,953	2,974	2,994	3,014
PASADENA	HARRIS	SAN JACINTO	126,325	141,544	156,513	171,330	186,055	200,724
PASADENA	HARRIS	SAN JACINTO-BRAZOS	35,353	39,612	43,801	47,948	52,069	56,174
PEARLAND	HARRIS	SAN JACINTO-BRAZOS	3,074	3,606	4,129	4,647	5,161	5,673
PINE TRAILS UTILITY	HARRIS	SAN JACINTO	6,166	6,763	7,350	7,931	8,508	9,083
PINEY POINT VILLAGE	HARRIS	SAN JACINTO	3,546	3,708	3,867	4,024	4,180	4,336
ROLLING FORK PUD	HARRIS	SAN JACINTO	2,453	2,571	2,689	2,808	2,926	3,044
SEABROOK	HARRIS	SAN JACINTO-BRAZOS	11,943	14,377	16,771	19,141	21,496	23,842
SHOREACRES	HARRIS	SAN JACINTO-BRAZOS	1,644	1,796	1,945	2,093	2,241	2,389
SOUTH HOUSTON	HARRIS	SAN JACINTO	17,307	18,742	20,153	21,550	22,938	24,321
SOUTHSIDE PLACE	HARRIS	SAN JACINTO	1,686	1,822	1,956	2,088	2,220	2,351
SOUTHWEST UTILITIES	HARRIS	SAN JACINTO	6,341	7,321	8,285	9,239	10,187	11,131
SPRING VALLEY	HARRIS	SAN JACINTO	3,810	4,003	4,193	4,381	4,568	4,754
STAFFORD	HARRIS	SAN JACINTO	313	316	319	322	325	328
SUNBELT FWSD	HARRIS	SAN JACINTO	24,141	28,628	33,041	37,409	41,750	46,075
TAYLOR LAKE VILLAGE	HARRIS	SAN JACINTO-BRAZOS	5,472	5,472	5,472	5,472	5,472	5,472
TOMBALL	HARRIS	SAN JACINTO	12,059	15,429	18,150	22,954	26,554	31,650
TRAIL OF THE LAKES MUD	HARRIS	SAN JACINTO	10,970	10,970	10,970	10,970	10,970	10,970
WALLER	HARRIS	SAN JACINTO	586	778	967	1,154	1,340	1,525
WEBSTER	HARRIS	SAN JACINTO-BRAZOS	13,076	16,964	20,788	24,573	28,334	32,081
WEST HARRIS COUNTY MUD #6	HARRIS	SAN JACINTO	3,500	3,500	3,500	3,500	3,500	3,500
WEST UNIVERSITY PL.	HARRIS	SAN JACINTO	15,381	16,520	17,641	18,750	19,852	20,950
WHCRWA	HARRIS	SAN JACINTO	311,392	361,319	398,614	423,643	430,783	437,665
WILLOW RUN SUBDIVISION	HARRIS	SAN JACINTO	3,663	3,663	3,663	3,663	3,663	3,663
WINDFERN FOREST UD	HARRIS	SAN JACINTO	6,584	8,622	8,622	8,622	8,622	8,622
WOODCREEK MUD	HARRIS	SAN JACINTO	3,605	4,784	5,944	7,092	8,233	9,369
		HARRIS TOTAL	4,078,231	4,629,335	5,180,439	5,731,543	6,282,647	6,833,751
BUFFALO	LEON	TRINITY	2,074	2,345	2,506	2,516	2,501	2,521
CENTERVILLE	LEON	TRINITY	1,002	1,101	1,160	1,164	1,158	1,165
COUNTY-OTHER	LEON	BRAZOS	3,831	4,164	4,362	4,375	4,356	4,381
COUNTY-OTHER	LEON	TRINITY	4,150	4,490	4,692	4,704	4,686	4,713
FLO COMMUNITY WSC	LEON	TRINITY	5,335	6,894	7,820	7,878	7,791	7,908
JEWETT	LEON	BRAZOS	269	322	353	355	352	356
JEWETT	LEON	TRINITY	802	959	1,052	1,058	1,049	1,061
NORMANGEE	LEON	BRAZOS	217	244	260	260	259	261
NORMANGEE	LEON	TRINITY	551	618	658	661	657	662
		LEON TOTAL	18,231	21,137	22,863	22,971	22,809	23,028
AMES	LIBERTY	TRINITY	1,338	1,623	1,897	2,165	2,459	2,789
CLEVELAND	LIBERTY	SAN JACINTO	7,930	8,288	8,631	8,967	9,336	9,749
COUNTY-OTHER	LIBERTY	NECHES	1,633	1,968	2,292	2,608	2,955	3,343
COUNTY-OTHER	LIBERTY	NECHES-TRINITY	112	135	157	179	203	230
COUNTY-OTHER	LIBERTY	SAN JACINTO	13,748	16,579	19,294	21,954	24,870	28,138
COUNTY-OTHER	LIBERTY	TRINITY	29,614	34,343	38,878	43,321	48,192	53,650
COUNTY-OTHER	LIBERTY	TRINITY-SAN JACINTO	1,985	2,394	2,786	3,170	3,591	4,063
DAISETTA	LIBERTY	NECHES	419	438	456	474	493	515
DAISETTA	LIBERTY	TRINITY	659	689	717	745	775	809
DAYTON	LIBERTY	TRINITY	7,491	9,454	11,336	13,180	15,201	17,467
HARDIN	LIBERTY	TRINITY	885	1,028	1,165	1,299	1,446	1,611
HARDIN WSC	LIBERTY	TRINITY	3,184	3,828	4,445	5,050	5,713	6,456
KENEFICK	LIBERTY	TRINITY	824	997	1,163	1,325	1,503	1,702
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	LIBERTY	TRINITY	1,670	1,880	2,081	2,278	2,494	2,736
LIBERTY	LIBERTY	TRINITY	8,265	8,520	8,765	9,005	9,268	9,563
MERCY WSC	LIBERTY	SAN JACINTO	404	482	557	630	710	800
PLUM GROVE	LIBERTY	SAN JACINTO	1,234	1,569	1,890	2,205	2,550	2,937
SOUTHWEST UTILITIES	LIBERTY	SAN JACINTO	123	148	172	196	222	251

WUG	COUNTY	BASIN	2011 POPULATIONS					
			2010	2020	2030	2040	2050	2060
WEST HARDIN WSC	LIBERTY	NECHES	412	535	653	768	894	1,036
LIBERTY TOTAL			81,930	94,898	107,335	119,519	132,875	147,845
COUNTY-OTHER	MADISON	BRAZOS	994	1,066	1,124	1,178	1,226	1,268
COUNTY-OTHER	MADISON	TRINITY	8,419	9,026	9,508	9,959	10,358	10,708
MADISONVILLE	MADISON	TRINITY	4,442	4,725	4,951	5,162	5,349	5,512
NORMANGEE	MADISON	TRINITY	50	56	61	65	69	72
MADISON TOTAL			13,905	14,873	15,644	16,364	17,002	17,560
CONROE	MONTGOMERY	SAN JACINTO	59,845	78,924	102,013	127,459	161,024	200,007
CONSUMERS WATER INC	MONTGOMERY	SAN JACINTO	2,351	2,673	3,397	4,246	5,368	6,672
COUNTY-OTHER	MONTGOMERY	SAN JACINTO	168,860	202,973	290,646	395,073	542,668	714,207
CRYSTAL SPRNGS WATER COMPANY	MONTGOMERY	SAN JACINTO	6,670	7,945	10,814	14,182	18,629	23,798
CUT AND SHOOT	MONTGOMERY	SAN JACINTO	1,515	1,733	2,159	2,655	3,309	4,068
EAST PLANTATION UD	MONTGOMERY	SAN JACINTO	2,398	2,839	3,831	4,995	6,532	8,318
H M W SUD	MONTGOMERY	SAN JACINTO	11,464	12,796	15,791	19,305	23,947	29,342
HOUSTON	MONTGOMERY	SAN JACINTO	1,096	1,486	2,248	3,134	4,303	5,661
MAGNOLIA	MONTGOMERY	SAN JACINTO	2,151	3,012	4,054	5,203	6,718	8,478
MONTGOMERY	MONTGOMERY	SAN JACINTO	1,200	5,000	7,500	10,000	12,500	15,000
MONTGOMERY COUNTY MUD #18	MONTGOMERY	SAN JACINTO	6,928	8,840	13,139	18,185	24,848	32,592
MONTGOMERY COUNTY MUD #19	MONTGOMERY	SAN JACINTO	3,200	3,200	3,200	3,200	3,200	3,200
MONTGOMERY COUNTY MUD #8	MONTGOMERY	SAN JACINTO	4,060	5,336	6,532	6,967	6,886	6,829
MONTGOMERY COUNTY MUD #9	MONTGOMERY	SAN JACINTO	2,840	3,864	4,968	5,478	5,559	5,616
MONTGOMERY COUNTY UD #2	MONTGOMERY	SAN JACINTO	3,116	3,116	3,116	3,116	3,116	3,116
MONTGOMERY COUNTY UD #3	MONTGOMERY	SAN JACINTO	3,726	3,976	4,537	5,197	6,069	7,081
MONTGOMERY COUNTY UD #4	MONTGOMERY	SAN JACINTO	4,972	4,972	4,972	4,972	4,972	4,972
MONTGOMERY COUNTY WCID #1	MONTGOMERY	SAN JACINTO	4,157	4,448	5,100	5,867	6,879	8,055
NEW CANEY MUD	MONTGOMERY	SAN JACINTO	15,154	17,712	23,465	30,218	39,135	49,499
OAK RIDGE NORTH	MONTGOMERY	SAN JACINTO	3,743	4,202	5,100	6,144	7,521	9,120
PANORAMA VILLAGE	MONTGOMERY	SAN JACINTO	2,160	2,281	2,402	2,523	2,644	2,765
PATTON VILLAGE	MONTGOMERY	SAN JACINTO	1,721	1,923	2,318	2,777	3,382	4,085
POINT AQUARIUS MUD	MONTGOMERY	SAN JACINTO	3,558	4,429	6,388	8,686	11,722	15,250
PORTER WSC	MONTGOMERY	SAN JACINTO	15,087	17,179	21,887	27,412	27,412	27,412
RAYFORD ROAD MUD	MONTGOMERY	SAN JACINTO	18,237	18,237	18,237	18,237	18,237	18,237
RIVER PLANTATION MUD	MONTGOMERY	SAN JACINTO	3,310	3,310	3,310	3,310	3,310	3,310
ROMAN FOREST	MONTGOMERY	SAN JACINTO	4,372	6,934	10,035	13,452	17,959	23,194
SHENANDOAH	MONTGOMERY	SAN JACINTO	2,561	3,437	4,497	5,666	7,208	8,998
SOUTHERN MONTGOMERY COUNTY MUD	MONTGOMERY	SAN JACINTO	11,087	14,196	14,481	15,034	15,213	15,568
SOUTHWEST UTILITIES	MONTGOMERY	SAN JACINTO	2,263	2,582	3,299	4,141	5,253	6,545
SPLENDORA	MONTGOMERY	SAN JACINTO	2,017	2,470	3,356	4,386	5,745	7,323
SPRING CREEK UD	MONTGOMERY	SAN JACINTO	5,326	6,271	8,397	10,892	14,186	18,015
STAGECOACH	MONTGOMERY	SAN JACINTO	626	861	1,185	1,630	2,243	3,086
STANLEY LAKE MUD	MONTGOMERY	SAN JACINTO	4,256	5,201	5,201	5,201	5,201	5,201
THE WOODLANDS	MONTGOMERY	SAN JACINTO	60,080	111,470	119,300	119,300	119,300	119,300
WILLIS	MONTGOMERY	SAN JACINTO	5,695	6,739	8,780	11,153	14,283	17,918
WOODBANCH	MONTGOMERY	SAN JACINTO	1,567	1,784	2,047	2,336	2,718	3,161
MONTGOMERY TOTAL			453,369	588,351	751,702	931,732	1,169,199	1,444,999
COUNTY-OTHER	POLK	TRINITY	11,800	12,789	13,538	14,167	14,984	15,747
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	POLK	TRINITY	13,706	15,319	16,590	17,577	18,632	19,641
LIVINGSTON	POLK	TRINITY	6,740	8,025	9,061	9,829	10,539	11,232
ONALASKA	POLK	TRINITY	1,562	1,944	2,252	2,480	2,691	2,897
ONALASKA WSC	POLK	TRINITY	3,764	4,029	4,238	4,400	4,573	4,739
TRINITY RURAL WSC	POLK	TRINITY	78	90	100	108	116	124
POLK TOTAL			37,650	42,196	45,779	48,561	51,535	54,380
COLDSRING	SAN JACINTO	SAN JACINTO	177	205	228	242	250	254
COLDSRING	SAN JACINTO	TRINITY	649	753	836	888	918	932
COUNTY-OTHER	SAN JACINTO	SAN JACINTO	7,109	8,130	8,946	9,455	9,750	9,884
COUNTY-OTHER	SAN JACINTO	TRINITY	4,076	4,490	4,718	4,303	4,038	3,635
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	SAN JACINTO	SAN JACINTO	1,467	1,844	2,145	2,333	2,442	2,491
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	SAN JACINTO	TRINITY	3,165	3,978	4,628	5,033	5,268	5,375
MERCY WSC	SAN JACINTO	SAN JACINTO	1,820	2,211	2,523	2,718	2,831	2,882
POINT BLANK	SAN JACINTO	TRINITY	662	763	843	893	922	935
RIVERSIDE WSC	SAN JACINTO	TRINITY	2,017	2,542	3,066	3,950	4,485	5,011
SAN JACINTO WSC	SAN JACINTO	TRINITY	3,697	4,457	5,065	5,444	5,663	5,763
SHEPHERD	SAN JACINTO	TRINITY	2,604	3,168	3,619	3,900	4,063	4,137
SAN JACINTO TOTAL			27,443	32,541	36,617	39,159	40,630	41,299
COUNTY-OTHER	TRINITY	TRINITY	2,866	3,092	3,167	3,129	3,005	2,891
GROVETON	TRINITY	TRINITY	630	680	696	688	660	635
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	TRINITY	TRINITY	1,673	1,805	1,849	1,826	1,754	1,688
TRINITY	TRINITY	TRINITY	3,033	3,273	3,352	3,311	3,180	3,060
TRINITY RURAL WSC	TRINITY	TRINITY	3,369	3,635	3,722	3,677	3,532	3,399
TRINITY TOTAL			11,571	12,485	12,786	12,631	12,131	11,673
CONSOLIDATED WSC	WALKER	TRINITY	100	110	115	113	114	114
COUNTY-OTHER	WALKER	SAN JACINTO	10,395	11,461	11,973	11,848	11,876	11,876
COUNTY-OTHER	WALKER	TRINITY	6,424	7,400	7,732	6,869	6,462	5,917
HUNTSVILLE	WALKER	SAN JACINTO	32,831	36,196	37,816	37,419	37,507	37,507
HUNTSVILLE	WALKER	TRINITY	7,310	8,059	8,420	8,331	8,351	8,351
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	WALKER	TRINITY	439	484	506	501	502	502
NEW WAVERLY	WALKER	SAN JACINTO	1,087	1,199	1,252	1,239	1,242	1,242
RIVERSIDE WSC	WALKER	TRINITY	4,472	4,612	4,819	5,550	5,985	6,530
TRINITY RURAL WSC	WALKER	TRINITY	267	294	307	304	305	305
WALKER COUNTY RURAL WSC	WALKER	TRINITY	7,347	8,100	8,462	8,373	8,393	8,393
WALKER TOTAL			70,672	77,915	81,402	80,547	80,737	80,737
BROOKSHIRE	WALLER	BRAZOS	4,616	5,997	7,535	9,246	11,284	13,624
COUNTY-OTHER	WALLER	BRAZOS	8,859	9,572	10,366	11,251	12,303	13,512
COUNTY-OTHER	WALLER	SAN JACINTO	10,878	13,699	16,840	20,334	24,494	29,275
HEMPSTEAD	WALLER	BRAZOS	7,389	10,585	14,143	18,102	22,817	28,232
KATY	WALLER	SAN JACINTO	1,462	2,241	3,109	4,074	5,224	6,544
PINE ISLAND	WALLER	BRAZOS	1,102	1,402	1,736	2,107	2,549	3,057

WUG	COUNTY	BASIN	2011 POPULATIONS					
			2010	2020	2030	2040	2050	2060
PRAIRIE VIEW	WALLER	BRAZOS	4,306	4,700	5,139	5,628	6,210	6,878
PRAIRIE VIEW	WALLER	SAN JACINTO	474	517	565	619	683	756
WALLER	WALLER	SAN JACINTO	2,051	2,462	2,919	3,428	4,034	4,730
		WALLER TOTAL	41,137	51,175	62,352	74,789	89,598	106,608
		REGION H TOTAL	6,015,840	6,990,980	7,986,480	8,998,002	10,132,237	11,346,082

WUG	COUNTY	BASIN	2011 DEMANDS (ac-ft/yr)					
			2010	2020	2030	2040	2050	2060
BELLVILLE	AUSTIN	BRAZOS	1,192	1,477	1,664	1,760	1,810	1,889
COUNTY-OTHER	AUSTIN	BRAZOS	1,047	871	762	692	659	624
COUNTY-OTHER	AUSTIN	BRAZOS-COLORADO	281	307	326	334	338	347
COUNTY-OTHER	AUSTIN	COLORADO	26	29	31	31	32	33
IRRIGATION	AUSTIN	BRAZOS	743	743	743	743	743	743
IRRIGATION	AUSTIN	BRAZOS-COLORADO	9,874	9,874	9,874	9,874	9,874	9,874
LIVESTOCK	AUSTIN	BRAZOS	1,211	1,211	1,211	1,211	1,211	1,211
LIVESTOCK	AUSTIN	BRAZOS-COLORADO	339	339	339	339	339	339
LIVESTOCK	AUSTIN	COLORADO	65	65	65	65	65	65
MANUFACTURING	AUSTIN	BRAZOS	172	191	208	223	236	257
MANUFACTURING	AUSTIN	BRAZOS-COLORADO	38	42	45	49	52	56
MINING	AUSTIN	BRAZOS	40	44	47	49	51	53
MINING	AUSTIN	BRAZOS-COLORADO	4	4	4	4	5	5
MINING	AUSTIN	COLORADO	7	8	8	9	9	9
SAN FELIPE	AUSTIN	BRAZOS	124	145	159	167	170	176
SEALY	AUSTIN	BRAZOS	1,275	1,635	1,883	2,000	2,060	2,163
WALLIS	AUSTIN	BRAZOS-COLORADO	178	194	202	207	209	214
AUSTIN TOTAL			16,616	17,179	17,571	17,757	17,863	18,058
ALVIN	BRAZORIA	SAN JACINTO-BRAZOS	3,123	3,293	3,440	3,557	3,743	3,970
ANGLETON	BRAZORIA	SAN JACINTO-BRAZOS	2,218	2,225	2,243	2,249	2,307	2,394
BAILEY'S PRAIRIE	BRAZORIA	BRAZOS	15	15	15	16	17	17
BAILEY'S PRAIRIE	BRAZORIA	SAN JACINTO-BRAZOS	75	78	80	82	85	90
BRAZORIA	BRAZORIA	BRAZOS	74	73	72	70	70	71
BRAZORIA	BRAZORIA	BRAZOS-COLORADO	229	226	222	215	216	220
BRAZORIA COUNTY MUD #1	BRAZORIA	SAN JACINTO-BRAZOS	842	1,214	1,587	1,911	2,271	2,648
BRAZORIA COUNTY MUD #2	BRAZORIA	BRAZOS	1,115	1,590	2,050	2,462	2,909	3,376
BRAZORIA COUNTY MUD #3	BRAZORIA	SAN JACINTO-BRAZOS	603	872	1,139	1,372	1,631	1,902
BRAZORIA COUNTY MUD #4	BRAZORIA	SAN JACINTO-BRAZOS	578	570	562	558	558	558
BRAZORIA COUNTY MUD #5	BRAZORIA	SAN JACINTO-BRAZOS	680	669	659	653	653	653
BROOKSIDE VILLAGE	BRAZORIA	SAN JACINTO-BRAZOS	266	296	323	348	378	413
CLUTE	BRAZORIA	SAN JACINTO-BRAZOS	1,181	1,214	1,265	1,291	1,349	1,425
COUNTY-OTHER	BRAZORIA	BRAZOS	126	131	138	143	151	160
COUNTY-OTHER	BRAZORIA	BRAZOS-COLORADO	4,237	4,492	4,749	4,955	5,218	5,517
COUNTY-OTHER	BRAZORIA	SAN JACINTO-BRAZOS	10,073	11,038	12,233	13,230	14,407	15,715
DANBURY	BRAZORIA	SAN JACINTO-BRAZOS	211	222	231	238	250	265
FREEPORT	BRAZORIA	BRAZOS	140	135	132	130	129	129
FREEPORT	BRAZORIA	SAN JACINTO-BRAZOS	1,752	2,057	2,366	2,633	2,936	3,281
HILLCREST	BRAZORIA	SAN JACINTO-BRAZOS	125	126	126	127	130	133
HOLIDAY LAKES	BRAZORIA	SAN JACINTO-BRAZOS	92	91	90	89	90	94
IOWA COLONY	BRAZORIA	SAN JACINTO-BRAZOS	108	118	126	135	145	156
IRRIGATION	BRAZORIA	BRAZOS	4,186	3,816	3,675	3,589	3,589	3,589
IRRIGATION	BRAZORIA	BRAZOS-COLORADO	5,536	5,048	4,860	4,747	4,747	4,747
IRRIGATION	BRAZORIA	SAN JACINTO-BRAZOS	125,311	114,251	110,009	107,452	107,452	107,452
JONES CREEK	BRAZORIA	BRAZOS-COLORADO	98	91	84	76	72	72
LAKE JACKSON	BRAZORIA	SAN JACINTO-BRAZOS	4,015	4,332	4,611	4,883	5,210	5,595
LIVESTOCK	BRAZORIA	BRAZOS	242	242	242	242	242	242
LIVESTOCK	BRAZORIA	BRAZOS-COLORADO	404	404	404	404	404	404
LIVESTOCK	BRAZORIA	SAN JACINTO-BRAZOS	968	968	968	968	968	968
MANUFACTURING	BRAZORIA	BRAZOS	216,824	238,749	258,151	277,737	295,021	315,974
MANUFACTURING	BRAZORIA	BRAZOS-COLORADO	1,184	1,304	1,410	1,517	1,611	1,726
MANUFACTURING	BRAZORIA	SAN JACINTO-BRAZOS	42,231	46,501	50,280	54,094	57,461	61,541
MANVEL	BRAZORIA	SAN JACINTO-BRAZOS	526	511	496	480	470	470
MINING	BRAZORIA	BRAZOS	307	337	354	372	389	405
MINING	BRAZORIA	BRAZOS-COLORADO	2,852	3,128	3,292	3,452	3,614	3,766
MINING	BRAZORIA	SAN JACINTO-BRAZOS	945	1,037	1,091	1,145	1,198	1,248
ORBIT SYSTEMS INC	BRAZORIA	BRAZOS-COLORADO	47	55	63	71	79	88
ORBIT SYSTEMS INC	BRAZORIA	SAN JACINTO-BRAZOS	386	451	514	575	638	712
OYSTER CREEK	BRAZORIA	SAN JACINTO-BRAZOS	166	188	210	229	251	277
PEARLAND	BRAZORIA	SAN JACINTO-BRAZOS	11,965	14,925	17,508	19,949	22,681	25,525
RICHWOOD	BRAZORIA	SAN JACINTO-BRAZOS	341	354	363	370	386	408
SOUTHWEST UTILITIES	BRAZORIA	SAN JACINTO-BRAZOS	71	73	75	77	79	83
SURFSIDE BEACH	BRAZORIA	BRAZOS	168	189	209	228	248	271
SWEENEY	BRAZORIA	BRAZOS-COLORADO	606	636	663	684	717	757
YARNER CREEK UD	BRAZORIA	BRAZOS	359	428	494	556	622	694
WEST COLUMBIA	BRAZORIA	BRAZOS	481	457	434	413	395	385
WEST COLUMBIA	BRAZORIA	BRAZOS-COLORADO	92	88	84	79	76	74
BRAZORIA TOTAL			448,174	469,308	494,392	520,853	548,263	580,660
ANAHUAC	CHAMBERS	NECHES-TRINITY	274	292	307	318	334	353
ANAHUAC	CHAMBERS	TRINITY	79	84	89	92	97	102
BAYTOWN	CHAMBERS	TRINITY-SAN JACINTO	606	661	712	752	802	859
BEACH CITY	CHAMBERS	TRINITY	39	51	62	72	82	93
BEACH CITY	CHAMBERS	TRINITY-SAN JACINTO	275	362	439	507	580	654
COUNTY-OTHER	CHAMBERS	NECHES-TRINITY	50	48	46	44	43	42
COUNTY-OTHER	CHAMBERS	TRINITY	251	240	230	220	213	210
COUNTY-OTHER	CHAMBERS	TRINITY-SAN JACINTO	162	155	148	142	137	135
IRRIGATION	CHAMBERS	NECHES-TRINITY	83,269	83,269	83,269	83,269	83,269	83,269
IRRIGATION	CHAMBERS	TRINITY	32,741	32,741	32,741	32,741	32,741	32,741
IRRIGATION	CHAMBERS	TRINITY-SAN JACINTO	1,767	1,767	1,767	1,767	1,767	1,767
LIVESTOCK	CHAMBERS	NECHES-TRINITY	333	333	333	333	333	333
LIVESTOCK	CHAMBERS	TRINITY	60	60	60	60	60	60
LIVESTOCK	CHAMBERS	TRINITY-SAN JACINTO	69	69	69	69	69	69
MANUFACTURING	CHAMBERS	TRINITY-SAN JACINTO	11,802	12,959	13,987	15,011	15,932	17,122
MINING	CHAMBERS	NECHES-TRINITY	639	692	725	756	788	816
MINING	CHAMBERS	TRINITY	28,240	30,587	32,017	33,420	34,811	36,027
MINING	CHAMBERS	TRINITY-SAN JACINTO	8,543	9,253	9,685	10,110	10,531	10,899
MONT BELVIEU	CHAMBERS	TRINITY	669	870	1,055	1,215	1,382	1,553
MONT BELVIEU	CHAMBERS	TRINITY-SAN JACINTO	314	408	494	570	648	728

WUG	COUNTY	BASIN	2011 DEMANDS (ac-ft/yr)					
			2010	2020	2030	2040	2050	2060
OLD RIVER-WINFREE	CHAMBERS	TRINITY	208	225	238	248	263	280
STEAM ELECTRIC POWER	CHAMBERS	TRINITY-SAN JACINTO	4,435	3,536	4,134	4,863	5,751	6,834
TRINITY BAY CONSERVATION DISTRICT	CHAMBERS	NECHES-TRINITY	1,412	1,686	1,940	2,167	2,392	2,644
TRINITY BAY CONSERVATION DISTRICT	CHAMBERS	TRINITY	646	772	888	991	1,094	1,210
CHAMBERS TOTAL			176,883	181,120	185,435	189,737	194,119	198,800
ARCOLA	FORT BEND	SAN JACINTO-BRAZOS	403	434	474	514	566	622
BEASLEY	FORT BEND	BRAZOS	8	9	10	12	14	16
BEASLEY	FORT BEND	BRAZOS-COLORADO	84	95	108	122	142	166
COUNTY-OTHER	FORT BEND	BRAZOS	2,527	1,182	3,774	8,358	17,765	28,857
COUNTY-OTHER	FORT BEND	BRAZOS-COLORADO	221	67	177	235	313	334
COUNTY-OTHER	FORT BEND	SAN JACINTO	163	96	403	977	2,382	3,888
COUNTY-OTHER	FORT BEND	SAN JACINTO-BRAZOS	1,092	481	1,232	4,362	11,849	20,103
FAIRCHILDS	FORT BEND	BRAZOS	406	515	650	787	971	1,182
FIRST COLONY MUD #9	FORT BEND	BRAZOS	1,392	1,425	1,467	1,508	1,559	1,609
FORT BEND COUNTY MUD #106	FORT BEND	BRAZOS	968	960	960	957	957	957
FORT BEND COUNTY MUD #108	FORT BEND	BRAZOS	587	577	574	571	571	571
FORT BEND COUNTY MUD #111	FORT BEND	BRAZOS	780	772	772	769	769	769
FORT BEND COUNTY MUD #23	FORT BEND	SAN JACINTO-BRAZOS	675	1,018	1,444	1,883	2,459	3,117
FORT BEND COUNTY MUD #25	FORT BEND	SAN JACINTO-BRAZOS	1,587	2,224	3,009	3,803	4,877	6,104
FORT BEND COUNTY MUD #67	FORT BEND	BRAZOS	830	821	816	813	813	813
FORT BEND COUNTY MUD #68	FORT BEND	BRAZOS	604	600	600	600	600	600
FORT BEND COUNTY MUD #69	FORT BEND	BRAZOS	479	479	477	477	477	477
FORT BEND COUNTY MUD #81	FORT BEND	BRAZOS	773	1,033	1,349	1,675	2,108	2,602
FULSHEAR	FORT BEND	BRAZOS	211	267	335	404	496	603
FULSHEAR	FORT BEND	SAN JACINTO-BRAZOS	138	174	219	264	323	394
HOUSTON	FORT BEND	SAN JACINTO	4,068	4,667	5,386	6,136	7,166	8,391
HOUSTON	FORT BEND	SAN JACINTO-BRAZOS	2,857	3,277	3,782	4,310	5,033	5,893
IRRIGATION	FORT BEND	BRAZOS	17,907	17,907	17,907	17,907	17,907	17,907
IRRIGATION	FORT BEND	BRAZOS-COLORADO	18,869	18,869	18,869	18,869	18,869	18,869
IRRIGATION	FORT BEND	SAN JACINTO	7,538	7,538	7,538	7,538	7,538	7,538
IRRIGATION	FORT BEND	SAN JACINTO-BRAZOS	9,141	9,141	9,141	9,141	9,141	9,141
KATY	FORT BEND	SAN JACINTO	287	374	484	597	745	919
KENDLETON	FORT BEND	BRAZOS-COLORADO	151	194	251	324	418	539
LIVESTOCK	FORT BEND	BRAZOS	691	691	691	691	691	691
LIVESTOCK	FORT BEND	BRAZOS-COLORADO	211	211	211	211	211	211
LIVESTOCK	FORT BEND	SAN JACINTO	70	70	70	70	70	70
LIVESTOCK	FORT BEND	SAN JACINTO-BRAZOS	199	199	199	199	199	199
MANUFACTURING	FORT BEND	BRAZOS	1,235	1,296	1,344	1,383	1,409	1,334
MANUFACTURING	FORT BEND	SAN JACINTO	1,979	2,076	2,154	2,216	2,258	2,137
MANUFACTURING	FORT BEND	SAN JACINTO-BRAZOS	3,649	3,827	3,970	4,086	4,162	3,939
MEADOWS	FORT BEND	SAN JACINTO	1,887	1,859	1,838	1,817	1,809	1,809
MEADOWS	FORT BEND	SAN JACINTO-BRAZOS	188	185	183	181	180	180
MINING	FORT BEND	BRAZOS	618	630	638	644	651	656
MINING	FORT BEND	BRAZOS-COLORADO	140	144	144	146	147	149
MINING	FORT BEND	SAN JACINTO	280	285	289	292	295	297
MINING	FORT BEND	SAN JACINTO-BRAZOS	1,972	2,011	2,034	2,056	2,076	2,094
MISSOURI CITY	FORT BEND	BRAZOS	315	390	466	545	603	733
MISSOURI CITY	FORT BEND	SAN JACINTO	2,577	3,195	3,817	4,460	4,938	6,004
MISSOURI CITY	FORT BEND	SAN JACINTO-BRAZOS	11,664	14,464	17,280	20,186	22,351	27,175
NEEDVILLE	FORT BEND	BRAZOS	207	250	304	359	436	527
NEEDVILLE	FORT BEND	BRAZOS-COLORADO	250	303	368	435	527	637
NFBWA	FORT BEND	BRAZOS	951	1,516	2,241	3,082	4,381	6,010
NFBWA	FORT BEND	SAN JACINTO	12,438	16,675	19,914	22,105	22,749	22,793
NFBWA	FORT BEND	SAN JACINTO-BRAZOS	8,411	18,111	25,447	31,997	38,076	44,115
ORBIT SYSTEMS INC	FORT BEND	SAN JACINTO-BRAZOS	15	16	18	20	22	25
PECAN GROVE MUD #1	FORT BEND	BRAZOS	2,301	2,321	2,339	2,368	2,441	2,539
PECAN GROVE MUD #1	FORT BEND	SAN JACINTO-BRAZOS	612	617	622	629	649	675
PLANTATION MUD	FORT BEND	SAN JACINTO-BRAZOS	573	554	544	534	530	530
PLEAK	FORT BEND	BRAZOS	547	646	770	895	1,063	1,256
RICHMOND	FORT BEND	BRAZOS	2,653	3,224	3,907	4,578	5,527	6,648
ROSENBERG	FORT BEND	BRAZOS	5,156	6,405	7,932	9,502	11,637	14,171
SIENNA PLANTATION MUD #2	FORT BEND	SAN JACINTO-BRAZOS	1,061	1,212	1,212	1,205	1,205	1,205
SIMONTON	FORT BEND	BRAZOS	419	497	592	689	816	967
STAFFORD	FORT BEND	SAN JACINTO	333	434	552	677	852	1,052
STAFFORD	FORT BEND	SAN JACINTO-BRAZOS	1,395	1,820	2,317	2,839	3,573	4,411
STEAM ELECTRIC POWER	FORT BEND	BRAZOS	66,026	68,046	79,553	93,582	110,682	131,527
SUGAR LAND	FORT BEND	BRAZOS	8,223	9,859	10,111	10,063	10,063	10,063
SUGAR LAND	FORT BEND	SAN JACINTO	824	987	1,013	1,008	1,008	1,008
SUGAR LAND	FORT BEND	SAN JACINTO-BRAZOS	11,234	13,468	13,813	13,747	13,747	13,747
WHCRWA	FORT BEND	SAN JACINTO	2,654	3,103	3,540	4,117	4,657	5,250
FORT BEND TOTAL			228,705	256,793	294,646	337,527	393,519	459,814
BACLIFF MUD	GALVESTON	SAN JACINTO-BRAZOS	552	572	569	560	557	562
BAYOU VISTA	GALVESTON	SAN JACINTO-BRAZOS	429	458	471	475	478	482
BOLIVAR PENINSULAR SUD	GALVESTON	NECHES-TRINITY	1,123	1,201	1,240	1,251	1,261	1,272
CLEAR LAKE SHORES	GALVESTON	SAN JACINTO-BRAZOS	282	287	289	287	287	289
COUNTY-OTHER	GALVESTON	NECHES-TRINITY	0	0	1	0	0	1
COUNTY-OTHER	GALVESTON	SAN JACINTO-BRAZOS	1,098	948	850	795	764	749
DICKINSON	GALVESTON	SAN JACINTO-BRAZOS	3,085	3,416	3,586	3,620	3,657	3,699
FRIENDSWOOD	GALVESTON	SAN JACINTO-BRAZOS	3,245	3,532	3,652	3,638	3,666	3,707
GALVESTON	GALVESTON	SAN JACINTO-BRAZOS	16,095	15,903	15,711	15,518	15,390	15,390
GALVESTON COUNTY MUD #1	GALVESTON	SAN JACINTO-BRAZOS	426	483	514	525	532	540
GALVESTON COUNTY WCID #12	GALVESTON	SAN JACINTO-BRAZOS	267	296	312	316	320	324
HITCHCOCK	GALVESTON	SAN JACINTO-BRAZOS	933	935	930	914	911	915
IRRIGATION	GALVESTON	SAN JACINTO-BRAZOS	10,342	10,342	10,342	10,342	10,342	10,342
JAMAICA BEACH	GALVESTON	SAN JACINTO-BRAZOS	300	344	368	377	383	389
KEMAH	GALVESTON	SAN JACINTO-BRAZOS	278	322	348	356	360	366
LA MARQUE	GALVESTON	SAN JACINTO-BRAZOS	2,161	2,115	2,069	2,023	1,992	1,992

WUG	COUNTY	BASIN	2011 DEMANDS (ac-ft/yr)					
			2010	2020	2030	2040	2050	2060
LEAGUE CITY	GALVESTON	SAN JACINTO-BRAZOS	7,477	8,253	8,674	8,751	8,840	8,947
LIVESTOCK	GALVESTON	NECHES-TRINITY	16	16	16	16	16	16
LIVESTOCK	GALVESTON	SAN JACINTO-BRAZOS	309	309	309	309	309	309
MANUFACTURING	GALVESTON	SAN JACINTO-BRAZOS	41,005	44,330	47,046	49,692	51,967	55,491
MINING	GALVESTON	NECHES-TRINITY	136	143	147	150	154	158
MINING	GALVESTON	SAN JACINTO-BRAZOS	129	136	139	143	146	149
SAN LEON MUD	GALVESTON	SAN JACINTO-BRAZOS	632	670	680	676	677	684
SANTA FE	GALVESTON	SAN JACINTO-BRAZOS	988	990	982	956	951	956
STEAM ELECTRIC POWER	GALVESTON	SAN JACINTO-BRAZOS	5,034	4,013	4,692	5,519	6,528	7,757
TEXAS CITY	GALVESTON	SAN JACINTO-BRAZOS	6,476	6,383	6,269	6,138	6,051	6,056
TIKI ISLAND	GALVESTON	SAN JACINTO-BRAZOS	243	282	303	311	316	321
GALVESTON TOTAL			103,061	106,679	110,509	113,658	116,855	121,863
BAYTOWN	HARRIS	SAN JACINTO	624	625	628	631	643	659
BAYTOWN	HARRIS	TRINITY-SAN JACINTO	10,531	10,537	10,599	10,645	10,841	11,114
BELLAIRE	HARRIS	SAN JACINTO	3,734	3,993	4,254	4,527	4,817	5,131
BLUE BELL MANOR UTILITY COMPANY	HARRIS	SAN JACINTO	572	563	555	546	540	540
BRITMOORE UTILITIES	HARRIS	SAN JACINTO	471	550	626	705	783	864
BUNKER HILL VILLAGE	HARRIS	SAN JACINTO	1,504	1,491	1,479	1,466	1,462	1,462
CANDLELIGHT HILLS SUBDIVISION	HARRIS	SAN JACINTO	451	530	610	691	770	853
CHCRWA	HARRIS	SAN JACINTO	4,637	6,433	6,433	6,433	6,433	6,433
CHIMNEY HILL MUD	HARRIS	SAN JACINTO	668	646	625	618	611	611
CLEAR BROOK CITY MUD WOODMEADOWS	HARRIS	SAN JACINTO	1,003	1,089	1,189	1,281	1,384	1,503
CONSUMERS WATER INC	HARRIS	SAN JACINTO	399	524	653	767	897	1,026
COUNTY-OTHER	HARRIS	SAN JACINTO	14,130	13,609	23,334	41,631	67,774	94,505
COUNTY-OTHER	HARRIS	SAN JACINTO-BRAZOS	2,621	2,045	2,512	2,030	1,966	2,014
COUNTY-OTHER	HARRIS	TRINITY-SAN JACINTO	2,373	1,776	1,997	1,370	969	645
CROSBY MUD	HARRIS	SAN JACINTO	897	964	1,028	1,091	1,157	1,237
CRYSTAL SPRNGS WATER COMPANY	HARRIS	SAN JACINTO	21	27	33	39	45	51
DEER PARK	HARRIS	SAN JACINTO	1,723	1,725	1,737	1,746	1,782	1,832
DEER PARK	HARRIS	SAN JACINTO-BRAZOS	2,641	2,645	2,664	2,678	2,732	2,809
EL DORADO UD	HARRIS	SAN JACINTO	465	507	544	584	627	675
EL LAGO	HARRIS	SAN JACINTO-BRAZOS	534	524	513	503	496	496
FOUNTAINVIEW SUBDIVISION	HARRIS	SAN JACINTO	341	389	438	483	532	585
FRIENDSWOOD	HARRIS	SAN JACINTO-BRAZOS	1,031	1,005	979	952	944	944
GALENA PARK	HARRIS	SAN JACINTO	1,231	1,234	1,245	1,252	1,285	1,332
GREEN TRAILS MUD	HARRIS	SAN JACINTO	917	1,036	1,158	1,276	1,396	1,520
HARRIS COUNTY FWSD #47	HARRIS	SAN JACINTO	423	408	394	380	370	370
HARRIS COUNTY FWSD #51	HARRIS	SAN JACINTO	2,536	2,473	2,451	2,409	2,409	2,409
HARRIS COUNTY FWSD #6	HARRIS	SAN JACINTO	346	396	441	494	544	601
HARRIS COUNTY MUD #11	HARRIS	SAN JACINTO	417	470	523	574	627	686
HARRIS COUNTY MUD #119 INWOOD NORTH	HARRIS	SAN JACINTO	878	919	899	880	870	870
HARRIS COUNTY MUD #132	HARRIS	SAN JACINTO	1,755	2,176	2,579	2,986	3,385	3,801
HARRIS COUNTY MUD #151	HARRIS	SAN JACINTO	1,275	1,267	1,259	1,250	1,250	1,250
HARRIS COUNTY MUD #152	HARRIS	SAN JACINTO	787	1,014	1,228	1,444	1,670	1,895
HARRIS COUNTY MUD #153	HARRIS	SAN JACINTO	1,227	1,669	2,106	2,533	2,971	3,406
HARRIS COUNTY MUD #154	HARRIS	SAN JACINTO	676	830	974	1,122	1,265	1,421
HARRIS COUNTY MUD #158	HARRIS	SAN JACINTO	486	597	589	574	574	574
HARRIS COUNTY MUD #180	HARRIS	SAN JACINTO	616	741	864	990	1,113	1,245
HARRIS COUNTY MUD #189	HARRIS	SAN JACINTO	804	970	1,133	1,299	1,462	1,636
HARRIS COUNTY MUD #261	HARRIS	SAN JACINTO	870	867	867	865	865	865
HARRIS COUNTY MUD #345	HARRIS	SAN JACINTO	1,415	1,403	1,403	1,397	1,397	1,397
HARRIS COUNTY MUD #46	HARRIS	SAN JACINTO	836	822	808	801	801	801
HARRIS COUNTY MUD #5	HARRIS	SAN JACINTO	655	642	628	614	605	605
HARRIS COUNTY MUD #50	HARRIS	SAN JACINTO	620	655	696	731	773	820
HARRIS COUNTY MUD #53	HARRIS	SAN JACINTO	1,933	2,384	2,806	3,238	3,658	4,111
HARRIS COUNTY MUD #55	HARRIS	SAN JACINTO-BRAZOS	1,502	1,463	1,424	1,385	1,359	1,359
HARRIS COUNTY MUD #8	HARRIS	SAN JACINTO	697	756	809	866	929	1,001
HARRIS COUNTY UD #14	HARRIS	SAN JACINTO	582	635	686	737	790	845
HARRIS COUNTY UD #15	HARRIS	SAN JACINTO	427	484	541	596	653	716
HARRIS COUNTY WCID #1	HARRIS	SAN JACINTO	1,115	1,264	1,413	1,554	1,704	1,870
HARRIS COUNTY WCID #133	HARRIS	SAN JACINTO	754	750	747	737	743	743
HARRIS COUNTY WCID #21	HARRIS	SAN JACINTO	1,417	1,466	1,509	1,547	1,609	1,684
HARRIS COUNTY WCID #36	HARRIS	SAN JACINTO	1,346	1,452	1,547	1,650	1,763	1,891
HARRIS COUNTY WCID #50	HARRIS	SAN JACINTO	605	663	715	770	830	897
HARRIS COUNTY WCID #76	HARRIS	SAN JACINTO	296	290	284	278	274	274
HARRIS COUNTY WCID #84	HARRIS	SAN JACINTO	602	604	606	604	611	621
HEDWIG VILLAGE	HARRIS	SAN JACINTO	831	824	816	808	803	803
HILSHIRE VILLAGE	HARRIS	SAN JACINTO	191	188	185	183	182	182
HOUSTON	HARRIS	SAN JACINTO	361,804	398,796	433,343	468,951	506,649	547,381
HOUSTON	HARRIS	SAN JACINTO-BRAZOS	20,163	22,225	24,150	26,134	28,235	30,505
HUMBLE	HARRIS	SAN JACINTO	3,664	4,062	4,456	4,857	5,274	5,715
HUNTERS CREEK VILLAGE	HARRIS	SAN JACINTO	1,747	1,866	1,981	2,091	2,212	2,340
IRRIGATION	HARRIS	SAN JACINTO	9,883	9,883	9,883	9,883	9,883	9,883
IRRIGATION	HARRIS	TRINITY-SAN JACINTO	5,417	5,417	5,417	5,417	5,417	5,417
JACINTO CITY	HARRIS	SAN JACINTO	1,301	1,346	1,410	1,455	1,526	1,612
JERSEY VILLAGE	HARRIS	SAN JACINTO	1,586	1,880	2,170	2,464	2,753	3,056
KATY	HARRIS	SAN JACINTO	3,197	3,867	4,544	5,230	5,902	6,604
LA PORTE	HARRIS	SAN JACINTO	287	306	328	346	369	394
LA PORTE	HARRIS	SAN JACINTO-BRAZOS	5,036	5,367	5,750	6,066	6,461	6,904
LEAGUE CITY	HARRIS	SAN JACINTO-BRAZOS	26	26	26	26	27	27
LIVESTOCK	HARRIS	SAN JACINTO	951	951	951	951	951	951
LIVESTOCK	HARRIS	SAN JACINTO-BRAZOS	91	91	91	91	91	91
LIVESTOCK	HARRIS	TRINITY-SAN JACINTO	91	91	91	91	91	91
LONGHORN TOWN UD	HARRIS	SAN JACINTO	596	857	1,112	1,368	1,622	1,875
MANUFACTURING	HARRIS	SAN JACINTO	256,465	275,094	290,934	304,964	315,464	310,194
MANUFACTURING	HARRIS	SAN JACINTO-BRAZOS	66,918	71,779	75,911	79,572	82,312	80,937
MANUFACTURING	HARRIS	TRINITY-SAN JACINTO	72,614	77,888	82,373	86,345	89,318	87,826

WUG	COUNTY	BASIN	2011 DEMANDS (ac-ft/yr)					
			2010	2020	2030	2040	2050	2060
MASON CREEK UD	HARRIS	SAN JACINTO	2,352	2,321	2,291	2,271	2,261	2,261
MINING	HARRIS	SAN JACINTO	1,258	1,407	1,500	1,593	1,688	1,771
MINING	HARRIS	SAN JACINTO-BRAZOS	24	27	29	31	32	34
MISSOURI CITY	HARRIS	SAN JACINTO	1,306	1,540	1,786	2,035	2,296	2,554
NASSAU BAY	HARRIS	SAN JACINTO-BRAZOS	1,028	1,014	1,000	986	976	976
NFBWA	HARRIS	SAN JACINTO	1,072	1,031	1,021	1,061	1,084	1,080
NHCRWA	HARRIS	SAN JACINTO	116,062	136,903	152,789	161,456	164,968	169,178
NORTH BELT UD	HARRIS	SAN JACINTO	461	600	731	863	1,002	1,140
NORTH GREEN MUD	HARRIS	SAN JACINTO	349	379	405	434	466	503
NORTHWEST HARRIS COUNTY MUD #23	HARRIS	SAN JACINTO	587	728	873	1,005	1,152	1,298
NORTHWEST PARK MUD	HARRIS	SAN JACINTO	1,331	1,443	1,545	1,653	1,773	1,909
PARKWAY UD	HARRIS	SAN JACINTO	303	296	288	280	275	277
PASADENA	HARRIS	SAN JACINTO	15,990	17,440	18,759	20,151	21,674	23,383
PASADENA	HARRIS	SAN JACINTO-BRAZOS	4,475	4,881	5,250	5,639	6,066	6,544
PEARLAND	HARRIS	SAN JACINTO-BRAZOS	445	513	579	646	717	788
PINE TRAILS UTILITY	HARRIS	SAN JACINTO	939	1,008	1,070	1,137	1,210	1,292
PINEY POINT VILLAGE	HARRIS	SAN JACINTO	1,275	1,317	1,360	1,402	1,451	1,506
ROLLING FORK PUD	HARRIS	SAN JACINTO	706	729	753	777	806	839
SEABROOK	HARRIS	SAN JACINTO-BRAZOS	2,421	2,867	3,288	3,731	4,166	4,620
SHOREACRES	HARRIS	SAN JACINTO-BRAZOS	204	217	229	239	237	237
SOUTH HOUSTON	HARRIS	SAN JACINTO	2,288	2,393	2,528	2,631	2,775	2,942
SOUTHSIDE PLACE	HARRIS	SAN JACINTO	406	433	458	482	510	540
SOUTHWEST UTILITIES	HARRIS	SAN JACINTO	710	795	882	962	1,050	1,147
SPRING VALLEY	HARRIS	SAN JACINTO	888	915	944	972	1,008	1,049
STAFFORD	HARRIS	SAN JACINTO	23	23	23	22	23	23
STEAM ELECTRIC POWER	HARRIS	SAN JACINTO	7,284	22,585	26,405	31,062	36,738	43,656
STEAM ELECTRIC POWER	HARRIS	SAN JACINTO-BRAZOS	444	1,377	1,610	1,893	2,239	2,661
SUNBELT FWSD	HARRIS	SAN JACINTO	4,489	5,227	5,922	6,663	7,389	8,154
TAYLOR LAKE VILLAGE	HARRIS	SAN JACINTO-BRAZOS	908	889	871	852	846	846
TOMBALL	HARRIS	SAN JACINTO	2,621	3,301	3,842	4,834	5,562	6,630
TRAIL OF THE LAKES MUD	HARRIS	SAN JACINTO	1,413	1,376	1,364	1,339	1,339	1,339
WALLER	HARRIS	SAN JACINTO	119	154	190	225	260	296
WEBSTER	HARRIS	SAN JACINTO-BRAZOS	2,417	3,097	3,772	4,432	5,110	5,786
WEST HARRIS COUNTY MUD #6	HARRIS	SAN JACINTO	565	561	561	549	541	541
WEST UNIVERSITY PL.	HARRIS	SAN JACINTO	3,101	3,275	3,438	3,591	3,780	3,989
WHCRWA	HARRIS	SAN JACINTO	51,623	58,282	63,404	66,911	67,556	68,635
WILLOW RUN SUBDIVISION	HARRIS	SAN JACINTO	665	652	640	628	620	620
WINDFERN FOREST UD	HARRIS	SAN JACINTO	804	1,033	1,014	1,004	1,004	1,004
WOODCREEK MUD	HARRIS	SAN JACINTO	622	815	999	1,184	1,374	1,564
HARRIS TOTAL			1,128,253	1,251,645	1,359,097	1,464,169	1,568,326	1,655,905
BUFFALO	LEON	TRINITY	348	384	401	397	392	395
CENTERVILLE	LEON	TRINITY	189	203	210	207	205	206
COUNTY-OTHER	LEON	BRAZOS	395	416	421	412	405	408
COUNTY-OTHER	LEON	TRINITY	428	448	452	443	436	439
FLO COMMUNITY WSC	LEON	TRINITY	418	525	578	574	559	567
IRRIGATION	LEON	TRINITY	542	542	542	542	542	542
JEWETT	LEON	BRAZOS	51	60	64	64	63	64
JEWETT	LEON	TRINITY	151	177	192	191	188	190
LIVESTOCK	LEON	BRAZOS	423	423	423	423	423	423
LIVESTOCK	LEON	TRINITY	1,268	1,268	1,268	1,268	1,268	1,268
MANUFACTURING	LEON	TRINITY	714	842	967	1,093	1,207	1,313
MINING	LEON	BRAZOS	221	213	209	205	201	198
MINING	LEON	TRINITY	1,296	1,251	1,226	1,204	1,183	1,166
NORMANGEE	LEON	BRAZOS	42	46	49	48	47	48
NORMANGEE	LEON	TRINITY	106	117	122	120	119	120
LEON TOTAL			6,592	6,915	7,124	7,191	7,238	7,347
AMES	LIBERTY	TRINITY	137	159	179	197	221	250
CLEVELAND	LIBERTY	SAN JACINTO	1,341	1,365	1,392	1,416	1,464	1,529
COUNTY-OTHER	LIBERTY	NECHES	154	179	203	228	255	288
COUNTY-OTHER	LIBERTY	NECHES-TRINITY	11	12	14	16	18	20
COUNTY-OTHER	LIBERTY	SAN JACINTO	1,294	1,504	1,707	1,918	2,145	2,427
COUNTY-OTHER	LIBERTY	TRINITY	2,787	3,116	3,441	3,786	4,157	4,628
COUNTY-OTHER	LIBERTY	TRINITY-SAN JACINTO	187	217	247	277	310	350
DAISETTA	LIBERTY	NECHES	58	59	60	61	62	65
DAISETTA	LIBERTY	TRINITY	91	93	94	95	98	102
DAYTON	LIBERTY	TRINITY	1,737	2,161	2,553	2,924	3,355	3,855
HARDIN	LIBERTY	TRINITY	136	155	172	191	211	235
HARDIN WSC	LIBERTY	TRINITY	567	669	767	865	973	1,099
IRRIGATION	LIBERTY	NECHES	3,317	3,317	3,317	3,317	3,317	3,317
IRRIGATION	LIBERTY	NECHES-TRINITY	8,289	8,289	8,289	8,289	8,289	8,289
IRRIGATION	LIBERTY	SAN JACINTO	830	830	830	830	830	830
IRRIGATION	LIBERTY	TRINITY	53,056	53,056	53,056	53,056	53,056	53,056
IRRIGATION	LIBERTY	TRINITY-SAN JACINTO	17,409	17,409	17,409	17,409	17,409	17,409
KENEFICK	LIBERTY	TRINITY	94	112	128	144	162	183
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	LIBERTY	TRINITY	108	116	124	130	140	153
LIBERTY	LIBERTY	TRINITY	1,509	1,527	1,532	1,543	1,578	1,628
LIVESTOCK	LIBERTY	NECHES	104	104	104	104	104	104
LIVESTOCK	LIBERTY	NECHES-TRINITY	35	35	35	35	35	35
LIVESTOCK	LIBERTY	SAN JACINTO	140	140	140	140	140	140
LIVESTOCK	LIBERTY	TRINITY	446	446	446	446	446	446
LIVESTOCK	LIBERTY	TRINITY-SAN JACINTO	32	32	32	32	32	32
MANUFACTURING	LIBERTY	SAN JACINTO	331	391	452	514	570	619
MANUFACTURING	LIBERTY	TRINITY	62	74	85	97	108	117
MERCY WSC	LIBERTY	SAN JACINTO	75	88	100	113	126	142
MINING	LIBERTY	NECHES	32	32	32	32	32	33
MINING	LIBERTY	NECHES-TRINITY	23	23	23	24	23	22
MINING	LIBERTY	SAN JACINTO	34	34	34	34	35	35

WUG	COUNTY	BASIN	2011 DEMANDS (ac-ft/yr)					
			2010	2020	2030	2040	2050	2060
MINING	LIBERTY	TRINITY	4,924	4,937	4,945	4,951	4,958	4,963
MINING	LIBERTY	TRINITY-SAN JACINTO	3,717	3,727	3,732	3,737	3,742	3,747
PLUM GROVE	LIBERTY	SAN JACINTO	141	176	207	240	277	319
SOUTHWEST UTILITIES	LIBERTY	SAN JACINTO	14	16	18	20	23	26
STEAM ELECTRIC POWER	LIBERTY	TRINITY	2,962	4,240	4,957	5,831	6,896	8,195
WEST HARDIN WSC	LIBERTY	NECHES	29	35	42	47	54	63
LIBERTY TOTAL			106,213	108,875	110,898	113,089	115,651	118,751
COUNTY-OTHER	MADISON	BRAZOS	106	110	113	115	118	122
COUNTY-OTHER	MADISON	TRINITY	896	931	959	971	998	1,032
IRRIGATION	MADISON	TRINITY	19	19	19	19	19	19
LIVESTOCK	MADISON	BRAZOS	120	120	120	120	120	120
LIVESTOCK	MADISON	TRINITY	630	630	630	630	630	630
MADISONVILLE	MADISON	TRINITY	781	815	837	856	881	908
MANUFACTURING	MADISON	TRINITY	260	289	316	343	367	398
MINING	MADISON	BRAZOS	9	9	9	9	9	9
MINING	MADISON	TRINITY	15	15	15	15	15	15
NORMANGEE	MADISON	TRINITY	10	11	12	12	13	13
MADISON TOTAL			2,846	2,949	3,030	3,090	3,170	3,266
CONROE	MONTGOMERY	SAN JACINTO	11,262	14,588	18,512	22,987	28,860	35,846
CONSUMERS WATER INC	MONTGOMERY	SAN JACINTO	222	243	305	371	470	583
COUNTY-OTHER	MONTGOMERY	SAN JACINTO	23,266	27,511	38,743	52,220	71,729	94,402
CRYSTAL SPRNGS WATER COMPANY	MONTGOMERY	SAN JACINTO	606	704	933	1,208	1,586	2,026
CUT AND SHOOT	MONTGOMERY	SAN JACINTO	210	235	285	348	430	529
EAST PLANTATION UD	MONTGOMERY	SAN JACINTO	471	551	734	952	1,244	1,584
H M W SUD	MONTGOMERY	SAN JACINTO	1,696	1,864	2,282	2,768	3,434	4,208
HOUSTON	MONTGOMERY	SAN JACINTO	190	253	375	516	704	926
IRRIGATION	MONTGOMERY	SAN JACINTO	66	66	66	66	66	66
LIVESTOCK	MONTGOMERY	SAN JACINTO	510	510	510	510	510	510
MAGNOLIA	MONTGOMERY	SAN JACINTO	439	604	800	1,015	1,302	1,643
MANUFACTURING	MONTGOMERY	SAN JACINTO	2,045	2,332	2,608	2,883	3,126	3,392
MINING	MONTGOMERY	SAN JACINTO	480	509	526	543	559	573
MONTGOMERY	MONTGOMERY	SAN JACINTO	249	1,019	1,497	1,970	2,442	2,927
MONTGOMERY COUNTY MUD #18	MONTGOMERY	SAN JACINTO	1,871	2,377	3,518	4,869	6,653	8,726
MONTGOMERY COUNTY MUD #19	MONTGOMERY	SAN JACINTO	459	452	448	444	444	444
MONTGOMERY COUNTY MUD #8	MONTGOMERY	SAN JACINTO	842	1,095	1,325	1,397	1,381	1,369
MONTGOMERY COUNTY MUD #9	MONTGOMERY	SAN JACINTO	796	1,074	1,369	1,504	1,526	1,541
MONTGOMERY COUNTY UD #2	MONTGOMERY	SAN JACINTO	559	552	545	538	538	538
MONTGOMERY COUNTY UD #3	MONTGOMERY	SAN JACINTO	485	504	560	629	728	849
MONTGOMERY COUNTY UD #4	MONTGOMERY	SAN JACINTO	981	970	958	947	947	947
MONTGOMERY COUNTY WCID #1	MONTGOMERY	SAN JACINTO	499	519	577	651	756	885
NEW CANEY MUD	MONTGOMERY	SAN JACINTO	1,460	1,647	2,156	2,708	3,507	4,436
OAK RIDGE NORTH	MONTGOMERY	SAN JACINTO	683	748	897	1,067	1,297	1,573
PANORAMA VILLAGE	MONTGOMERY	SAN JACINTO	654	682	710	743	776	811
PATTON VILLAGE	MONTGOMERY	SAN JACINTO	87	88	101	115	136	165
POINT AQUARIUS MUD	MONTGOMERY	SAN JACINTO	734	908	1,303	1,762	2,377	3,092
PORTER WSC	MONTGOMERY	SAN JACINTO	1,944	2,156	2,697	3,347	3,317	3,317
RAYFORD ROAD MUD	MONTGOMERY	SAN JACINTO	2,309	2,288	2,268	2,268	2,268	2,268
RIVER PLANTATION MUD	MONTGOMERY	SAN JACINTO	835	824	812	801	798	798
ROMAN FOREST	MONTGOMERY	SAN JACINTO	544	839	1,192	1,568	2,073	2,677
SHENANDOAH	MONTGOMERY	SAN JACINTO	873	1,159	1,502	1,873	2,366	2,954
SOUTHERN MONTGOMERY COUNTY MUD	MONTGOMERY	SAN JACINTO	1,901	2,402	2,417	2,493	2,523	2,581
SOUTHWEST UTILITIES	MONTGOMERY	SAN JACINTO	254	281	352	432	542	675
SPLENDORA	MONTGOMERY	SAN JACINTO	188	224	297	383	502	640
SPRING CREEK UD	MONTGOMERY	SAN JACINTO	537	612	800	1,025	1,335	1,696
STAGECOACH	MONTGOMERY	SAN JACINTO	79	106	144	194	265	365
STANLEY LAKE MUD	MONTGOMERY	SAN JACINTO	744	904	898	892	892	892
STEAM ELECTRIC POWER	MONTGOMERY	SAN JACINTO	5,046	8,537	9,981	11,741	13,886	16,502
THE WOODLANDS	MONTGOMERY	SAN JACINTO	14,671	26,596	28,330	28,197	28,063	28,063
WILLIS	MONTGOMERY	SAN JACINTO	568	649	816	1,024	1,296	1,626
WOODBANCH	MONTGOMERY	SAN JACINTO	183	202	225	249	284	330
MONTGOMERY TOTAL			82,497	110,384	135,374	162,219	197,938	239,976
COUNTY-OTHER	POLK	TRINITY	1,600	1,691	1,744	1,794	1,880	1,976
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	POLK	TRINITY	890	944	985	1,004	1,044	1,100
LIVESTOCK	POLK	TRINITY	134	134	134	134	134	134
LIVINGSTON	POLK	TRINITY	2,137	2,517	2,802	3,006	3,212	3,423
MINING	POLK	TRINITY	29	31	32	33	34	35
ONALASKA	POLK	TRINITY	189	229	260	281	302	325
ONALASKA WSC	POLK	TRINITY	240	244	247	242	246	255
TRINITY RURAL WSC	POLK	TRINITY	6	7	8	8	9	9
POLK TOTAL			5,225	5,797	6,212	6,502	6,861	7,257
COLDSRING	SAN JACINTO	SAN JACINTO	44	51	56	59	60	61
COLDSRING	SAN JACINTO	TRINITY	163	186	205	216	222	225
COUNTY-OTHER	SAN JACINTO	SAN JACINTO	868	974	1,052	1,091	1,114	1,129
COUNTY-OTHER	SAN JACINTO	TRINITY	1,339	1,513	1,607	1,463	1,372	1,240
IRRIGATION	SAN JACINTO	TRINITY	667	667	667	667	667	667
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	SAN JACINTO	SAN JACINTO	95	114	127	133	137	140
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	SAN JACINTO	TRINITY	206	245	275	288	295	301
LIVESTOCK	SAN JACINTO	SAN JACINTO	142	142	142	142	142	142
LIVESTOCK	SAN JACINTO	TRINITY	142	142	142	142	142	142
MANUFACTURING	SAN JACINTO	SAN JACINTO	48	52	56	60	63	68
MERCY WSC	SAN JACINTO	SAN JACINTO	338	404	455	487	504	513
MINING	SAN JACINTO	SAN JACINTO	23	23	22	21	20	20
MINING	SAN JACINTO	TRINITY	7	6	6	6	6	6
POINT BLANK	SAN JACINTO	TRINITY	85	96	104	108	111	112
RIVERSIDE WSC	SAN JACINTO	TRINITY	150	179	213	270	302	337
SAN JACINTO WSC	SAN JACINTO	TRINITY	406	474	528	561	577	587
SHEPHERD	SAN JACINTO	TRINITY	301	355	394	411	424	431

WUG	COUNTY	BASIN	2011 DEMANDS (ac-ft/yr)					
			2010	2020	2030	2040	2050	2060
SAN JACINTO TOTAL			5,024	5,623	6,051	6,125	6,158	6,121
COUNTY-OTHER	TRINITY	TRINITY	526	558	561	547	522	502
GROVETON	TRINITY	TRINITY	119	126	127	123	118	113
IRRIGATION	TRINITY	TRINITY	467	467	467	467	467	467
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	TRINITY	TRINITY	109	111	110	104	98	95
LIVESTOCK	TRINITY	TRINITY	211	211	211	211	211	211
MINING	TRINITY	TRINITY	6	6	6	6	6	6
TRINITY	TRINITY	TRINITY	170	172	165	152	142	137
TRINITY RURAL WSC	TRINITY	TRINITY	279	293	292	280	265	255
TRINITY TOTAL			1,887	1,944	1,939	1,890	1,829	1,786
CONSOLIDATED WSC	WALKER	TRINITY	8	9	9	8	8	8
COUNTY-OTHER	WALKER	SAN JACINTO	5,752	6,303	6,558	6,463	6,465	6,465
COUNTY-OTHER	WALKER	TRINITY	9,060	10,373	10,793	9,550	8,967	8,211
HUNTSVILLE	WALKER	SAN JACINTO	4,597	4,946	5,041	4,904	4,874	4,874
HUNTSVILLE	WALKER	TRINITY	1,024	1,101	1,122	1,092	1,085	1,085
IRRIGATION	WALKER	SAN JACINTO	5	5	5	5	5	5
IRRIGATION	WALKER	TRINITY	6	6	6	6	6	6
LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE CO	WALKER	TRINITY	29	30	30	29	28	28
LIVESTOCK	WALKER	SAN JACINTO	310	310	310	310	310	310
LIVESTOCK	WALKER	TRINITY	322	322	322	322	322	322
MANUFACTURING	WALKER	SAN JACINTO	577	669	753	839	914	993
MANUFACTURING	WALKER	TRINITY	2,631	3,049	3,435	3,827	4,169	4,524
MINING	WALKER	SAN JACINTO	7	7	7	7	7	7
MINING	WALKER	TRINITY	6	6	6	6	6	6
NEW WAVERLY	WALKER	SAN JACINTO	218	235	243	236	235	235
RIVERSIDE WSC	WALKER	TRINITY	330	325	335	379	402	439
TRINITY RURAL WSC	WALKER	TRINITY	22	24	24	23	23	23
WALKER COUNTY RURAL WSC	WALKER	TRINITY	839	898	919	891	884	884
WALKER TOTAL			25,743	28,618	29,918	28,897	28,710	28,424
BROOKSHIRE	WALLER	BRAZOS	673	847	1,039	1,254	1,517	1,832
COUNTY-OTHER	WALLER	BRAZOS	685	708	755	794	869	954
COUNTY-OTHER	WALLER	SAN JACINTO	841	1,013	1,227	1,435	1,729	2,066
HEMPSTEAD	WALLER	BRAZOS	1,457	2,052	2,694	3,427	4,294	5,313
IRRIGATION	WALLER	BRAZOS	4,825	4,825	4,825	4,825	4,825	4,825
IRRIGATION	WALLER	SAN JACINTO	18,153	18,153	18,153	18,153	18,153	18,153
KATY	WALLER	SAN JACINTO	271	405	554	722	919	1,151
LIVESTOCK	WALLER	BRAZOS	676	676	676	676	676	676
LIVESTOCK	WALLER	SAN JACINTO	263	263	263	263	263	263
MANUFACTURING	WALLER	BRAZOS	17	19	21	24	25	28
MANUFACTURING	WALLER	SAN JACINTO	72	82	91	99	108	116
MINING	WALLER	BRAZOS	9	9	9	9	9	9
MINING	WALLER	SAN JACINTO	71	71	71	71	71	71
PINE ISLAND	WALLER	BRAZOS	117	146	177	210	254	305
PRAIRIE VIEW	WALLER	BRAZOS	1,129	1,211	1,307	1,418	1,558	1,726
PRAIRIE VIEW	WALLER	SAN JACINTO	124	133	144	156	171	190
WALLER	WALLER	SAN JACINTO	416	488	572	668	782	917
WALLER TOTAL			29,799	31,101	32,578	34,204	36,223	38,595
REGION H TOTAL			2,367,518	2,584,930	2,794,774	3,006,908	3,242,722	3,486,624

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Public Comment

- **Item 5:** *Receive public comment on Item 4 (Population and water demand projections)*

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Approval of Population and Water Demands

- **Item 6:** *Consider and take action on approving the submittal of revised population and water demand projections to the Texas Water Development Board*



REGION H
Water Planning Group

Task 3 – Water Supply Analysis

New Supply Sources

- Lake Houston Additional Yield
 - 28,200 acre-ft/year
 - 50% COH, 50% SJRA
 - Date Issued: 12/3/2008
 - 2006 Plan:
 - WMS ID: H15-HOUYLD10
 - Allocated to Katy, NHCRWA, Tomball
 - WMS Supply (acre-ft/year):

Year	2010	2020	2030	2040	2050	2060
Supply (acre-ft/year)	27,000	22,000	17,000	12,000	7,000	2,000

Task 3 – Water Supply Analysis



Firm Yield Determination

31 TAC 357.7 (a) (3) (C)

“The planning group shall use available Texas Commission on Environmental Quality water availability models for evaluating the adequacy of surface water supplies. The planning group shall assume full utilization of existing water rights and no return flows when using the water availability models and the group may use better site specific information upon written approval from the executive administrator. Until information is provided by the Texas Commission on Environmental Quality, regional water planning groups may use estimates of the projected amount of surface water that would be available from existing water rights during a drought of record. Once this information is available from the Texas Commission on Environmental Quality, the regional water planning group shall incorporate it in its next planning cycle unless better site-specific information is available.”

Task 3 – Water Supply Analysis



Modified Firm Yield Determination

- March 31, 2009 TWDB approved request to use modified supply analyses.
- Trinity and Brazos yield analyses in both 2006 and 2011 Plans contain limited return flows as in Region C and G models
- Determination of firm yield for run-of-river rights
 - 2006 RWP – Minimum Annual Diversion
 - 2011 RWP – Monthly Basis
- Coordinate with major water rights holders to determine appropriate basis for determining yield

Task 3 – Water Supply Analysis



Region C Coordination – Upper Trinity Basin Return Flows

- Conference call held with Region C Consultants
 - Tom Gooch (Freese & Nichols, Inc)
- Draft Region C Water Conservation and Reuse Study (December 2008)
 - Potential reductions in return flows in region H for the 2011 plan.

Task 3 – Water Supply Analysis



Region G Coordination – Brazos G WAM Updates

- Met with BRA & HDR
 - Received Memo outlining 2011 Brazos G WAM assumptions from HDR
 - Received updated list of Region H contracts from BRA
- Return Flows
 - Slight reduction due to increased direct reuse
 - Specific requests from Bryan and College Station
- Region G Consultant (HDR) will transmit the updated Brazos G WAMs for Region H supply analysis



Task 4 – WMS Selection

REGION H
Water Planning Group

Planning Group is required to document how WMS selection will be performed, per 31 TAC 357.5 (e) (4)

*"provide specific recommendations of water management strategies based upon identification, analysis, and comparison of all water management strategies the regional water planning group determines to be potentially feasible so that the cost effective water management strategies which are environmentally sensitive are considered and adopted unless the regional water planning group demonstrates that adoption of such strategies is not appropriate. To determine cost-effectiveness, the regional water planning groups will use the process described in §357.7(a)(8)(A)(i) of this title (relating to Regional Water Plan Development) and, to determine environmental sensitivity, the regional water planning groups shall use the process described in §357.7(a)(8)(A)(ii) of this title. **Before a regional water planning group begins the process of identifying potentially feasible water management strategies, it shall document the process by which it will list all possible water management strategies and identify the water management strategies that are potentially feasible for meeting a need in the region.** Once this process is identified, the regional water planning group shall present it to the public for comment at the public meeting required by §357.12(a)(1) of this title (relating to Notice and Public Participation);"*

Task 4 – WMS Selection

General Process for WMS Selection

- Shortage analysis
 - Performed under Task 3

- Application of General WMS
 - Increased groundwater use
 - Increase existing contracts
 - Conservation

Task 4 – WMS Selection

General Process for WMS Selection

- Identification/Selection of WMS to Add New Water Supplies
 - Development of matrix to evaluate:
 - Suitability of strategy
 - Environmental impacts
 - Cost

Task 4 – WMS Selection

General WMS

- Represent strategies that can be applied without the development of new water supplies.
- Can be applied at the WUG level and do not require WWP sponsorship.
- Many WUG shortages can be met by increasing surface water contracts if WWP surplus exists.
 - Applied to 43 WUG units in 2006 RWP

Task 4 – WMS Selection

General WMS

- It is required that conservation be considered
 - Applied to 133 WUG units in 2006 RWP
- New wells where groundwater is available
 - Applied to 280 WUG units in the 2006 RWP

Task 4 – WMS Selection

Existing 2006 WMS

- Evaluate validity of existing strategies
 - WUG sponsorship and agreement of WMS
 - Technical feasibility
 - New information from WUG and/or water providers
 - Outreach to better achieve consistency with plan

- Already evaluated in decision matrix last round

Task 4 – WMS Selection

WMS Selection Methodology – New Projects

CATEGORY	RATING CRITERIA		
	-1	0	1
Cost	>\$200/ac-ft	<\$200/ac-ft	<\$100/ac-ft
Yield	Size is too small or too large for need	Size is flexible or meets needs	Size can be adjusted to optimum
Location	IBT required, long distance or outside Region H.	No IBT required. Conveyance required.	No IBT required. Relatively near demand.
Water Quality	Quality of supply is reduced.	No known water quality issues.	Existing water quality problems are reduced.
Environmental Land & Habitat	Significant environmental issues and opposition.	Environmental impacts can be mitigated. Limited concerns.	Limited or no known impacts.
Local Preference	No local support. Significant opposition.	Some local support. Limited opposition.	Widespread local support. Multi-use benefits likely.
Institutional Constraints / Risk of Implementability	Permits opposed. Significant property required.	Permits expected with minimal problems. Property available.	Permits issued. Facilities or land owned. Water available.
Impacts on Environmental Flows	Reduces instream or B&E flows.	No impact.	Increases instream or B&E flows.
Impacts on Other Management Strategies	Negative impact.	No impact.	Positive impact.

Task 4 – WMS Selection

Alternative Strategies

- Will be identified when:
 - Choice in long-term supply solutions is uncertain
 - WMS are comparable in qualitative value
 - Called for in SOW
- SOW includes a subtask to identify alternative strategies

Task 4 – WMS Selection

Alternative Strategies

- Strategies for selection include, but are not limited to:
 - Storage to enhance yields from ROR supplies
 - Aquifer storage and recovery (ASR)
 - Brackish water desalination
- Alternative WMS to be selected using same strategy matrix used for new strategies

AECOM

5757 Woodway Drive, Suite 101W, Houston, Texas 77057-1599
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Memorandum

Date February 23, 2009

To Region H Water Planning Group

From Jason D. Afinowicz, PE

Subject Potential Water Management Strategies (WMS)
Identification and Selection

Distribution Jace Houston (SJRA), Temple McKinnon (TWDB), General Distribution

Pursuant to TAC 357.5(e)(4), the Region H Water Planning Group (RHWP) is required to prepare a summary of its process for identifying and selecting Water Management Strategies (WMS) for development of the 2011 Regional Water Plan (RWP). This process shall be presented to the public for comment at a public meeting. This document proposes a WMS selection methodology for consideration and adoption by the RHWP.

Potential WMS will be defined based on a determination of needs developed from a comparison of projected demands and existing supplies. These strategies are to be analyzed at the Wholesale Water Provider (WWP) or county level. A detailed technical memorandum will be prepared for each of the management strategies selected.

Shortage Analysis

The regional water planning process begins with identifying current and projected future water demands. After water demands are identified for all Water User Groups (WUGs), water supplies available to Region H are identified and allocated to WUGs and WWPs based on current usage and contracts. By matching the supplies and the demands, projected surpluses and shortages are determined. Wholesale water providers (WWP) supplies and contracts will be reviewed to determine their respective surplus or shortage during the planning period.

Application of General WMS

The selection of WMS begins with the identification of certain "general WMS" that are readily available. Such alternatives can provide simple, cost-effective solutions to shortage without the development of new, major water projects. These strategies include the use of groundwater where available, the expansion or extension of existing contracts for water supplies between WUGs and WWPs, and the reduction of demand through water conservation.

In evaluating the general WMS, the RHWP would make three assumptions. First, water user groups would continue to develop groundwater until it is fully utilized. This is based upon the observed pattern of development in the region, where the Gulf Coast aquifer is available in all of the southern counties. The supply of groundwater will not be allocated in excess of regulation set forth by subsidence or groundwater conservation districts, or other entities that have regulatory power over the consumption of groundwater.

Second, those WUGs currently receiving water from WWP's would be able to increase their contract amounts until the WWP supplies were fully allocated. This assumes the use of existing supplies conveyed through existing infrastructure wherever possible.

Finally, the RHWPG will assume that every municipal WUG with a projected shortage would utilize conservation before seeking out or increasing a WWP contract. This is pursuant to the language of 357.7(a)(7).

Identification of WMS to Add New Water Supplies

Potential WMS will include but are not limited to the strategies considered in the 2006 RWP. These strategies are as follows:

- Municipal Water Conservation
- Irrigation Conservation
- Industrial Conservation
- Non-Municipal Contractual Transfers
- Allens Creek Reservoir
- Bédias Reservoir
- Bédias Reservoir to Lake Conroe Transfer
- Little River Reservoir
- Wastewater Reclamation for Industry
- City of Houston/Trinity River Authority Contract Agreement
- Luce Bayou Interbasin Conveyance
- Houston to Gulf Coast Water Authority Transfer
- Brazos Saltwater Barrier
- Brazos River Authority System Operations Permit
- Houston Indirect Wastewater Reuse
- NHCRWA Indirect Wastewater Reuse
- New Permits in the San Jacinto River Basin
- Redesignation of Existing Water Rights
- San Jacinto River Authority/Trinity River Authority Contract Agreement
- Expanded Use of Groundwater
- Sabine Basin to Region H Interbasin Transfer
- Municipal Irrigation Reuse

Selection of WMS to Add New Water Supplies

The preliminary process for WMS in addition to the general strategies discussed above, will include various steps to identify logical groupings of WUGs with shortage issues and any projects that are already being developed. Identifying geographic locations of WUGs will be vital to assigning WMS that are in the vicinity of the need or can be easily conveyed once built. A list of feasible strategies for that are will be developed.

As possible, WUGs will be engaged to identify existing plans for long-term water supply. This may include the use of existing documentation such as groundwater reduction plans or preliminary engineering reports.

Following the assignment of general WMS to WUGs, the RHWPG will use a screening process for selecting the most beneficial and/or least invasive option for meeting shortages for each WUG. The potential water management strategies will be compared using a screening table, with required environmental assessments including:

- Instream flows
- Bay and Estuary Inflows
- Wildlife Habitat
- Wetlands

- Threatened and Endangered Species
- Cultural Resources
- Evaluation of Impacts on Water Management Strategies on Threats to Natural Resources.

The comparison table, shown in *Table 1*, summarizes for each strategy: project yield, capital and unit water costs, impacts on wetlands habitats and Bay and Estuary (B&E) flows, and impacts on landform. Evaluation criteria include cost, yield, location, water quality, environmental land and habitats, local preference, institutional constraints or risk of non-implementation, impacts on environmental flows and impacts on other water management strategies. In each of the evaluation categories, the strategy will be rated positively (+1), neutral (0) or negatively (-1), using evaluation criteria summarized below. The screening factors across each water management strategy are totaled to give an overall WMS screening factor score, and will be used in the preparation of a proposed WMS shortlist to be presented at public meeting for modification and/or approval.

Table 1 – Criteria for Rating Water Management Strategies

Category	Rating Criteria		
	-1	0	1
Cost	>\$200/ac-ft	<\$200/ac-ft	<\$100/ac-ft
Yield	Size is too small or too large for need	Size is flexible or meets needs	Size can be adjusted to optimum
Location	IBT required, long distance or outside Region H.	No IBT required. Conveyance required.	No IBT required. Relatively near demand.
Water Quality	Quality of supply is reduced.	No known water quality issues.	Existing water quality problems are reduced.
Environmental Land & Habitat	Significant environmental issues and opposition.	Environmental impacts can be mitigated. Limited concerns.	Limited or no known impacts.
Local Preference	No local support. Significant opposition.	Some local support. Limited opposition.	Widespread local support. Multi-use benefits likely.
Institutional Constraints / Risk of Implementability	Permits opposed. Significant property required.	Permits expected with minimal problems. Property available.	Permits issued. Facilities or land owned. Water available.
Impacts on Environmental Flows	Reduces instream or B&E flows.	No impact.	Increases instream or B&E flows.
Impacts on Other Management Strategies	Negative impact.	No impact.	Positive impact.

Environmental assessments will consider impacts to the following as a portion of the selection process:

- Instream flows
- Bay and Estuary Inflows
- Wildlife Habitat
- Wetlands
- Threatened and Endangered Species
- Cultural Resources
- Evaluation of Impacts on Water Management Strategies on Threats to Natural Resources

Alternative Strategies

Alternative strategies will be identified for WUGs with shortages, where the choice in long-term supply solutions is uncertain, where WMS are comparable in qualitative value, or where specifically called for in the Scope of Work.

Task 4 – WMS Selection

REGION H
Water Planning Group

Approval of WMS Selection Strategy

- **Item 9:** Consider and take action approving the WMS selection approach described under Item 8



Task 6 – Water Conservation and Drought Management



Water Conservation Survey

- Mailed surveys to 232 WUGs
- Identify:
 - Conservation measures implemented
 - Identify measures considered for future implementation
 - Startup and Operating Costs associated with each measure
 - Estimated Water Savings
- Information gained from surveys will be used to update conservation strategies.
- Request responses to survey by May 15th

Agenda Item 13

Agency communications.



TEXAS WATER DEVELOPMENT BOARD



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March 31, 2009

The Honorable Mark Evans
Trinity County Judge
Chairman, Region H Water Planning Group
P.O. Box 457
Groveton, Texas 75845-0457

Re: Request for Approval of Continued Use of Modified Water Availability Models for the Brazos and Trinity Basins for the Water Availability Analyses in the Region H Regional Water Planning Area

Dear Chairman Evans:

Staff at the Texas Water Development Board (TWDB) reviewed your request for approval of water supply methodologies for the 2011 Region H Regional Water Plan Update and your response to our request for more information on the proposed methodologies. As you mentioned in your request, the Region H Regional Water Planning Group will continue using the modified Water Availability Models for the Brazos and Trinity Basins.

The TWDB approves the continued use of these methodologies as described in your March 17, 2009 e-mail to Temple McKinnon for development of the 2011 regional water plan.

If you have any further questions, please do not hesitate to contact Ms. Temple McKinnon, Project Manager for the Region H Regional Water Planning Group at (512) 475-2057 or via email @ Temple.McKinnon@twdb.state.tx.us.

Sincerely,

Carolyn L. Brittin
Deputy Executive Administrator
Water Resources Planning and Information

cs: Reed Eichelberger, SJRA
Mike Reedy, AECOM
David Carter, TWDB

Our Mission

To provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas.

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From: Temple McKinnon
To: Afinowicz, Jason
Subject: Re: WAM Revisions Clarification

>>> "Afinowicz, Jason" <Jason.Afinowicz@aecom.com> 3/17/2009 12:59 PM >>>
Temple,

This message is in response to your March 10th response to our letter dated February 24, 2009 regarding alternatives to use of the WAM Run 3 for the 2011 round of regional planning. It is the intention of the Region H Water Planning Group (RHWPG) to provide a conservative, yet realistic projection of future water supplies for the purposes of developing the 2011 Regional Water Plan (RWP).

In the past, the RHWPG has adopted the Brazos River WAM developed by the Brazos G Water Planning Group (Brazos G) which includes some return flows from wastewater plants in the Brazos River Basin. More information regarding this model can be found in Section 3.3.1.6 of the 2006 RWP. Further coordination with Region G will be performed during the 2011 round of planning in a manner similar to that in developing the 2006 RWP as the RHWPG has become aware of similar modifications by Brazos G.

The Trinity River Basin WAM has been modified in the past by the RHWPG to include limited return flows from Region C, as agreed upon between the two regional planning groups. Coordination has already begun with the Region C consultant team regarding the results of their Water Conservation and Reuse Study to develop reasonable levels of return flows for the Trinity River WAM. Section 3.3.1.2 of the 2006 RWP describes the way this task was performed in the past.

Thank you for your response, and please let me know if you have any additional questions regarding our request.



Jimmie Schindewolf, P.E.
General Manager

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April 13, 2009

Judge Mark Evans, Chair
Region H Water Planning Group
c/o Michael V. Reedy, P.E.
Associate Vice President
AECOM
5757 Woodway, Suite 101 West
Houston, Texas 77057-1599

Re: **North Harris County Regional Water Authority Drought Contingency Plan for Groundwater Transfer Program**

Dear Judge Evans.:

Transmitted herewith please a copy of the North Harris County Regional Water Authority (the "Authority") Drought Contingency Plan for Groundwater Transfer Program (the "Plan"). This Plan was adopted by the Authority Board of Directors at the April 6, 2009 Board meeting.

In accordance with the Texas Commission on Environmental Quality ("TCEQ") regulations, a copy of the adopted Plan has been submitted to TCEQ and a copy is also being provided to the Region H Water Planning Group for informational purposes. Please feel free to contact me if you have any questions or need any additional information regarding this matter.

Sincerely,

A handwritten signature in black ink that reads "Jimmie Schindewolf". The signature is fluid and cursive.

Jimmie Schindewolf, P.E.
General Manager

JAS/lis

Attachment

xc: Robin S. Bobbitt, Johnson Radcliffe Petrov & Bobbitt PLLC w/o attachment
Tom Rolen, P.E., TCB INC. w/o attachment
Michael Baugher, P.E., TCB INC. w/o attachment
Tony Bennett, TCB INC. w/o attachment
Paul Nelson, Authority Planning and GIS Coordinator w/o attachment

