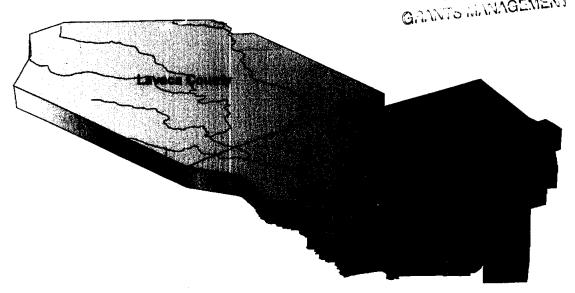
2002-483-437 FINAL REPORT

Lavaca Regional Water Planning Group (Region P)

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Infrastructure Finance Report

Final Report May 2002

Lavaca Regional Water Planning Group (Region P)

Infrastructure Finance Report

MARK V. LOWRY

Mark V. Lowry, P.E.

Associate Vice President

Bill E. Couch, AICP

Senior Project Manager

Final Report May 2002

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Lavaca Regional Water Planning Group Infrastructure Finance Report

BACKGROUND

As a part of Senate Bill 2 (SB 2, 77th Texas Legislature), the Regional Water Planning Groups (RWPGs) are required by the Texas Water Development Board (TWDB) to examine the funding required to implement the water management strategies and projects that were identified and recommended in the SB 1 Regional Water Plans. These plans were adopted by the RWPGs in December 2000 and approved by the TWDB in 2001. Each Region's findings are to be presented to the TWDB in an Infrastructure Finance Report (IFR), June 2002.

The primary objectives of the Infrastructure Finance Report are:

- to determine (via mail-out survey) the number of political subdivisions with identified needs for additional water supplies that will be unable to pay for their water infrastructure needs without some form of outside financial assistance;
- to determine (via mail-out survey) how much of the infrastructure costs in the regional water plans cannot be paid for solely using local utility revenue sources;
- to determine (via mail-out survey) the financing options proposed by political subdivisions to meet future water infrastructure needs (including the identification of State funding sources considered); and,
- to determine (via RWPG policy statement) what role(s) the RWPGs propose for the State in financing the recommended water supply projects.

LAVACA REGIONAL PLANNING AREA IFR SURVEYS

The Lavaca Regional Water Planning Group (LRWPG) did not have any political subdivisions with needs for additional water supplies identified in the SB1 Lavaca Regional Water Plan. However, the LRWPG had concerns that political subdivisions in

Region P that did have sufficient existing water supplies during the 50-year planning period would not have adequate existing facilities to meet projected demands without infrastructure replacements. Therefore, the scope of the IFR was expanded to include Region P's Municipal Water User Groups (WUGs) that have sufficient existing water supplies to adequately meet projected demands. Surveys, designed to determine if there are any financial needs for infrastructure replacements to existing facilities, were sent to 14 Municipal Water User Groups (WUGs) within Lavaca, Jackson, and western Wharton counties, which are listed below:

Jackson County WCID No.1 Wharton County WCID No. 1 - Louise

Jackson County WCID No.2 Cape Carancahua Water Supply Corp.

Isaacson Municipal Utility Dist. La Salle Landing Water System

City of Edna City of Hallettsville

City of Ganado City of Moulton
City of Shiner City of La Ward
City of Yoakum City of El Campo

The TWDB also requires that the RWPGs provide summary discussions detailing probable funding mechanisms that could meet identified water needs for county aggregate WUGs for which there are no political subdivisions responsible for providing water supplies. The Lavaca Regional Water Plan had identified significant infrastructure issues for agriculture and livestock aggregate categories in Region P that could affect their future viability and existence. In order to obtain the best possible information to address these issues, the LRWPG elected to send out optional surveys to try to obtain more specific financial needs information, if possible, instead of providing generalized Approximately 20 farms in each of the Region's three counties were summaries. identified to participate in the agricultural survey and the Cattleman's Association was chosen to participate in the livestock survey. Appendix A details Region P's IFR survey procedure; Appendix B contains copies of the Municipal and Agricultural surveys, as well as each of the three time-specific cover letters, and the TWDB's definition of the State Participation Program; Appendices C - E contain the TWDB-required survey response records, survey results, and actual survey responses, respectively.

SURVEY RESULTS

Municipal Infrastructure Surveys

The response rate for the Municipal Infrastructure Surveys was 71 percent. Of those responding, 70 percent indicated a need for funding for infrastructure replacements to their existing municipal water supply facilities in order to meet projected demands during the 50-year planning period. In addition to drilling additional wells, typical infrastructure needs indicated include upgrading/replacing distribution system service pumps, distribution mains, booster stations, and storage tanks. Only one respondent provided implementation dates for needed infrastructure replacements. Three respondents stated they could contribute 50 percent of the capital costs, one indicated they could contribute \$25,000, and three stated the amount they could afford was unknown. None of the needed facilities appear to qualify for state participation funding, and respondents were unsure of the amount of financing help that would be needed. Total estimated need for those responding to the survey was approximately \$20,000,000 with many respondents unable to provide costs of needed facilities. However, no respondents with funding needs indicated that they would be able to provide more than 50 percent of the capital costs. As a result, state-funding assistance is needed at a minimum of \$10,000,000 based on survey responses. See *Appendices* C - E for survey result details.

Agricultural Infrastructure Surveys

There was a 46 percent response rate for the Agricultural Infrastructure Surveys. Of those responding to the survey, 70 percent have already incorporated some sort of water conservation practices into their farming practices. The most common practices employed were laser leveling the fields (along with incorporating multiple inlets) and replacing irrigation canals with underground piping. Based on those respondents who provided an answer, there are approximately 12,900 acres that have already been laser leveled and approximately 14,000 additional acres still needing this procedure. The laser-leveling procedure lasts for about three uses. This would require maintenance procedures to be repeated on a nine-year cycle, given that about one-third of a farmer's land is irrigated per year and is rotated every year. The estimated cost for these

respondents to maintain existing laser-leveled fields and to create new laser-leveled fields on the additional acreage would be \$2,940,000 per nine-year cycle.

Based on those respondents who provided an answer, approximately 7,500 acres have had canal replacement and an additional 6,600 acres still need to have underground piping installed (based on those respondents providing this information). Surveys also indicate that 73 percent of respondents currently have unlined canals for which the sum from those providing data is about 423,000 feet, which would cost approximately \$3,600,000 to convert to pipelines.

Of those respondents indicating a need for water conservation measures, 83 percent are interested in pursuing water conservation efforts, but cannot due to lack of funding. It is not clear from the survey responses how much money the farmers could contribute to these water conservation efforts — only 46 percent of respondents provided this type of information; and of these, half gave dollar values while the others answered in terms of the percent of the cost that they could pay. See *Appendices C* — E for survey result details.

Less than half of the survey respondents provided answers to the quantitative demand and cost questions. A primary reason for this may be that they were hesitant to become responsible for these identified values. Therefore, the following table provides regional estimations of the projected funding needed for agricultural infrastructure, based on information from the Lavaca Regional Water Plan (December 2000):

Region P County	Annual Planted Rice Acreage*	Total Annual Costs for Laser Level	State Funds Needed for 50 % Participation	Total Costs for Pipeline Replacement of Canals**	State Funds Needed for 50 % Participation
Lavaca	3,290	\$ 358,610	\$ 179,305	\$ 560,616	\$ 280,308
Jackson	24,873	\$ 2,711,157	\$ 1,355,579	\$ 4,238,359	\$ 2,119,180
Wharton (partial)	23,553	\$ 2,567,277	\$ 1,283,639	\$ 4,013,431	\$ 2,006,716
Total	51,716	\$ 5,637,044	\$ 2,818,522	\$ 8,812,406	\$ 4,406,203

^{* 5-}Year average planted rice acreage based on data from 1994 through 1998.

^{*} Estimate that 1/3 of a farmer's land is planted per year for rice; and planted acreage is rotated every year.

^{**} Cost based on estimate of an average of 20 feet of canal per acre.

CONCLUSIONS

There is a definite need for state-sponsored funding programs to help meet both projected municipal demands for existing facilities and agricultural water conservation goals within the Lavaca Regional Planning Area. It was not possible to determine the magnitude of the funding needed from these surveys due to a lack of response to the survey's quantitative demand and cost questions. A minimum need of \$10,000,000 was developed based on those who responded to the survey.

The majority of municipal survey respondents indicated they do not have sufficient revenue sources to cover the capital costs required for the needed infrastructure replacements and they would consider any sources of available funding.

The majority of agricultural survey respondents indicated they are interested in implementing water conservation practices, but are unable to do so primarily due to the lack of funds needed to cover capital costs. Another important obstacle exists for farmers that lease the land they farm, usually on a year-to-year basis. Landowners typically are not willing to invest in water conservation improvements to their land. Without participation from the landowner or the option of an extended lease, it is not cost effective for the tenant farmer to pay for water conservation improvements when there is no guarantee that they will be able to farm the same property in consecutive years and receive the benefit from their investment. Some tenant farmers have invested in a certain amount of laser leveling; however, state-matching funds would need to be available to replace canals with underground piping. The Agricultural IFR Survey was not designed to differentiate between owner-farmers and tenant farmers since the issue was not raised during the survey form review and adoption process. However, this issue was brought to the attention of the LRWPG through follow-up conversations with survey respondents and regional planning group meeting attendees that are tenant farmers.

LRWPG POLICY STATEMENT

In response to the Region P Infrastructure Finance Survey results, the Lavaca Regional Water Planning Group has developed recommendations for the TWDB to present as policy recommendations to the State Legislature. In regards to the funding of necessary

Municipal and Agricultural water supply infrastructure projects, the LRWPG recommends that a five-cent state tax be placed on the sale of all bottled water. This tax should be dedicated solely to the funding of water infrastructure projects, including municipal and agricultural conservation infrastructure, within the State. For Agricultural water supply infrastructure needs, the LRWPG further recommends that the State develop, through the TWDB, a program similar to that provided under the Rural Utilities Service of the U.S. Department of Agriculture (USDA). Such a program would provide matching funds for water conservation improvements to individual farmers. There is an existing federal program available to farmers through the USDA called the Environmental Quality Incentive Program (EQIP). Texas began participating in this program in 1997, which addresses a wide range of natural resources issues including water quantity; however, the funding is very limited and many farmers are never able to participate. On average, the entire State receives only about \$2,000,000 per year and this level of funding is expected to decrease annually over the next several years. Last year was unique in that several small areas of the state were designated as EQIP "priority areas" and therefore Texas received a total of approximately \$4,000,000-\$5,000,000; the field office in the Wharton County area alone requested \$1,000,000. Funding for laser leveling and canal pipe replacement were included in this priority. The recommended State matching funds program would provide the necessary assistance that the federal incentive program cannot.

APPENDIX A PROCEDURE FOR COLLECTING SURVEY RESPONSES

IFR SURVEY PROCEDURE

SB 2 specifies that each RWPG will prepare an Infrastructure Finance Report (IFR) that examines the funding needed to implement the water management strategies and projects that were identified and recommended in the SB 1 Regional Water Plans that were approved by the TWDB in 2001.

The SB1 Lavaca Regional Water Plan stated that Region P has no identified municipal water needs during the 50-year planning period. However, this was based on the simplifying planning assumption that the RWPG was addressing only infrastructure needs for NEW water supplies; it was assumed that existing facilities would last for the duration of the 50-year period.

Current Region P's water use:

~96% agricultural (~85% of this is for rice) ~1.5% municipal ~1.5% manufacturing <1% livestock, etc.

Since Region P had no identified needs, the LRWPG decided to address existing infrastructure replacement needs for entities that have sufficient water supplies during the planning period. For Region P, this will include all of the larger Municipal WUGs (14 total). In addition Region P will perform a survey of the county-level aggregate WUGs that do not have a political subdivision responsible for supplying water. The TNRCC's database of water utilities was used to create the list of 14 Municipal WUGs, which included their addresses (see *Appendix C*)

Region P identified water supply issues for the agricultural and livestock aggregate WUGs. The Texas and Southwestern Cattle Raisers Association was chosen to participate in the Livestock survey; and initially, the 20 Agricultural WUGs that received the largest federal farm subsidies between 1996-2000 in each county were chosen to participate in the Agricultural IFR survey. This information was obtained from the Environmental Working Group's (EWG's) website (http:\\www.ewg.org) on county-level farm subsidy data. This database did not provide mailing address information however, so the Project Consultant sent the list of chosen agricultural survey participants to the RWPG voting members for their input as well as contacting each county's Appraisal District, Farm Service Agency, and Agriculture Extension Service for assistance in finding mailing addresses for the chosen farms. In addition, the LRWPG members were given the opportunity to add any farms to this list that they felt would be beneficial to the survey. Agricultural IFR surveys were also sent to the county-level offices for the Farm Bureau, Farm Service Agency (FSA), Natural Resource Conservation Commission (NRCS), and the Texas A&M Extension Service (TAES).

Using the TWDB IFR guidelines, the Project Consultant prepared a cover letter and survey questions for both the Municipal and Agricultural IFR surveys. The Project Consultant sent on or around January 18, 2002 a printed cover letter, survey, and postage-paid return envelope to each participant. The cover letter requested that entities please return their survey responses by February 15, 2002. Follow-up letters and surveys were mailed out on February 18th and March 18th, as required by the TWDB. Responses received were compiled in a Microsoft Excel spreadsheet and also in a data table formatted by the TWDB. Results are presented in this report (See *Appendix D*).

APPENDIX B MUNICIPAL AND AGRICULTURAL SURVEYS (AND COVER LETTERS)

Lavaca Region (P)

Municipal Water Infrastructure Financing Survey

Background: On January 5, 2001, each of the 16 Regional Water Planning Groups (RWPGs) across the State of Texas formally submitted an adopted regional water plan to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75th Texas Legislature). These regional water plans examined and analyzed the water supply needs for all of the water users in the State. Based on these analyses, the RWPGs identified water management strategies that would be necessary to ensure sufficient additional water supplies for the 50-year planning period. Preliminary capital cost estimates were also developed for each of the strategies recommended.

This year Senate Bill 2 (77th Texas Legislature) has expanded the RWPGs' assignments to include the examination of what financial assistance, if any, is needed to implement each of the recommended water management strategies. Specifically, the RWPGs are required to report to the TWDB how all of the political subdivisions (municipalities, counties, water districts, etc.) in Texas propose to pay for future water infrastructure needs identified in each of the Regional Water Plans.

The Lavaca Regional Water Plan did not identify any additional municipal water needs, so the TWDB was requested to survey the infrastructure improvement needs for existing facilities that have an existing and sufficient water supply for the 50-year planning period. Your input is crucial to completing this task successfully.

Attached is a **survey** requesting information on facility infrastructure improvements that are currently needed or are projected to be necessary during the 50-year planning period to adequately service **your** water utility customers. Your participation in this survey would be greatly appreciated.

<u>PLEASE RETURN</u> the completed survey in the postage-paid return envelope by Friday **February 15, 2002** to:

Mark V. Lowry, P.E. 400 W. 15th Street, Suite 500 Austin, Texas 78701 FAX (512) 472-7519 E-mail: mark.lowry@tcb.aecom.com

If you have any questions regarding this survey, please contact: Mark V. Lowry, P.E. @ (512) 457-7736; or Connie M. Hinojos @ (512) 457-7732 Final Report to LRWPG Page B- 2

Name of Municipality:	
Contact Person:	Title:
Telephone: ()	E-mail:
1. Does your water utility have any curreduring the 50-year planning period? Yes	ent or projected infrastructure improvement needsNo
If Yes - Please list what these needs are commercial/industrial water use(s) (use addition	e and for what size population and/or size of onal sheets, if necessary):
•	cient revenue sources, including implementing the capital costs associated with the needed 1? Yes No
If No - How much of the necessary capital cos	sts could your utility pay? \$
If No – Would you be interested in accessin these utility improvements? Yes	g in the State Participation Program to help fund
If No – For the costs your utility cannot pay, if any, state funding sources would you consid	what funding option(s) would you propose? What, er? (use additional sheets, if necessary)

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2nd Notice, February 18, 2002 Our records indicate that we have not yet heard from you

Lavaca Region (P)

Municipal Water Infrastructure Financing Survey

The Lavaca Regional Water Planning Group (LRWPG) sent out surveys on or about January 18, 2002 to the Municipal Water User Groups in Lavaca, Jackson, and western Wharton counties. The primary objectives of this survey are:

- to determine the number of municipal entities that have projected infrastructure replacement needs during the 50-year planning period, but are <u>unable</u> to pay for these needs without some form of outside financial assistance;
- to determine how much of the infrastructure replacement costs needed <u>cannot</u> be paid for solely using local utility revenue sources; and,
- to determine the financing options proposed by the municipal entities to meet future water infrastructure replacement needs (including the identification of State funding sources considered).

Your input is crucial to completing this task successfully. This survey is your opportunity to have your voice heard and your community's needs considered. Your participation in this survey is the only way to obtain important information for use in making financial decisions that could profoundly affect the ability of municipal entities to provide water supply services in Region P.

If you have any questions regarding this survey, please contact:

Mark V. Lowry, P.E. @ (512) 457-7736; lowrym@tcbaus.com or Connie M. Hinojos @ (512) 457-7732; hinojosc@tcbaus.com

PLEASE take a few minutes to fill out the attached survey and RETURN the completed survey in the POSTAGE-PAID RETURN ENVELOPE by Friday March 15, 2002.

Thank you for your assistance!

3rd & Final Notice, March 18, 2002 Our records indicate that we have not yet heard from you

Lavaca Region (P)

Municipal Water Infrastructure Financing Survey

The Lavaca Regional Water Planning Group (LRWPG) sent out surveys on or about January 18, 2002 to the Municipal Water User Groups in Lavaca, Jackson, and western Wharton counties. Follow-up surveys were sent February 18th to those who had not responded by February 15, 2002. This is your final opportunity to participate in this important financial needs survey. The primary objectives of this survey are:

- to determine the number of municipal entities that have projected infrastructure replacement needs during the 50-year planning period, but are <u>unable</u> to pay for these needs without some form of outside financial assistance;
- to determine how much of the infrastructure replacement costs needed <u>cannot</u> be paid for solely using local utility revenue sources; and,
- to determine the financing options proposed by the municipal entities to meet future water infrastructure replacement needs (including the identification of State funding sources considered).

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PLEASE take a few minutes to fill out the attached survey and RETURN the completed survey in the <u>POSTAGE-PAID RETURN ENVELOPE</u> by Friday **April 15, 2002**.

Thank you for your assistance!

Lavaca Region (P)

Agricultural Water Infrastructure Financing Survey

Background: On January 5, 2001, each of the 16 Regional Water Planning Groups (RWPGs) across the State of Texas formally submitted an adopted regional water plan to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75th Texas Legislature). These regional water plans examined and analyzed the water supply needs for all of the water users in the State. Based on these analyses, the RWPGs identified water management strategies that would be necessary to ensure sufficient additional water supplies for the 50-year planning period. Preliminary capital cost estimates were also developed for each of the strategies recommended.

This year Senate Bill 2 (77th Texas Legislature) has expanded the RWPGs' assignments to include the examination of what financial assistance, if any, is needed to implement each of the recommended water management strategies. Specifically, the RWPGs are required to report to the TWDB how all of the political subdivisions (municipalities, counties, water districts, etc.) in Texas propose to pay for future water infrastructure needs.

Since 96% of Region P's water use is for agriculture, the TWDB was requested to survey the infrastructure needs that exist for agricultural water users in the Lavaca Regional Water Planning Area. Your input is crucial to completing this task successfully.

Attached is a **survey** requesting information on existing and/or potential water conservation saving strategies that currently apply or could apply to **your** agricultural water practices. Your participation in this survey would be greatly appreciated.

<u>PLEASE RETURN</u> the completed survey in the postage-paid return envelope by Friday **February 15, 2002** to:

Mark V. Lowry, P.E. 400 W. 15th Street, Suite 500 Austin, Texas 78701 FAX (512) 472-7519

E-mail: mark.lowry@tcb.aecom.com

If you have any questions regarding this survey, please contact:

Mark V. Lowry, P.E. @ (512) 457-7736;

or

Connie M. Hinojos @ (512) 457-7732.

Region P Agricultural Water Infrastructure Financing Survey

Name of A	gricultural Organization:		
Contact Pe	erson:	T	itle:
Telephone	:()	E-mail: _	
	on strategies and their projected	-	of recommended agricultural water vere used in developing the Lavaca
1 2 3 4	Water Conservation Strategy Laser leveling + multiple inlets Canal lining Replacing canals with pipes Improved seed varieties	Unit Cost (\$) \$109 per acre \$0.51 per foot \$8.52 per foot	Assumptions for strategy unit costs: Laser leveling + multiple inlets – assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining – assumes 38 ac-ft water saved per canal mile.
If Yes - Ple		ntly using and for	how many acres:
If Ye s – He	you currently have any <u>unlined</u> ca ow many thousands of feet?		
practices? If Yes – I matching f 4. Are	Yes No How much money could you co funds were available? \$ e there other water conservation n	ntribute to maki	orating water conservation farming ing improvements, if some type of have implemented or would like to ye? Please list:

2nd Notice, February 18, 2002 Our records indicate that we have not yet heard from you

Lavaca Region (P)

Agricultural Water Infrastructure Financing Survey

The Lavaca Regional Water Planning Group (LRWPG) sent out surveys on or about January 18, 2002 to the larger farms in Lavaca, Jackson, and western Wharton counties. **The primary objectives of this survey are:**

- to determine the amount of water-related agricultural needs that are projected for the 50-year planning period in Region P;
- to determine how much of the infrastructure costs needed <u>cannot</u> be paid for solely using local agricultural revenue sources; and,
- to determine the financing options proposed by the agricultural entities to meet future water infrastructure needs (including the identification of State funding sources considered).

96% of the Lavaca Region's water use is for agriculture and your input is crucial to completing this task successfully. This survey is your opportunity to have your voice heard and your needs considered. Your participation in this survey is the only way to obtain important information for use in making financial decisions that could profoundly affect the viability of agriculture in Region P.

If you have any questions regarding this survey, please contact:

Mark V. Lowry, P.E. @ (512) 457-7736; lowrym@tcbaus.com or
Connie M. Hinojos @ (512) 457-7732; hinojosc@tcbaus.com

PLEASE take a few minutes to fill out the attached survey and RETURN the completed survey in the <u>POSTAGE-PAID RETURN ENVELOPE</u> by Friday March 15, 2002.

Thank you for your assistance!

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Lavaca Region (P)

Agricultural Water Infrastructure Financing Survey

The Lavaca Regional Water Planning Group (LRWPG) sent out surveys on or about January 18, 2002 to the larger farms in Lavaca, Jackson, and western Wharton counties. Follow-up surveys were sent February 18th to those who had not responded by February 15, 2002. This is your final opportunity to participate in this important financial needs survey. **The primary objectives of this survey are:**

- to determine the amount of water-related agricultural needs that are projected for the 50year planning period in Region P;
- to determine how much of the needed infrastructure costs <u>cannot</u> be paid for solely using local agricultural revenue sources and require some form of outside financial assistance; and,
- to determine the financing options proposed by the region's agricultural entities to meet future water infrastructure needs (including the identification of State funding sources considered).

96% of the Lavaca Region's water use is for agriculture and your input is crucial to completing this task successfully. This survey is your opportunity to have your voice heard and your needs considered. Your participation in this survey is the only way to obtain important information for use in making financial decisions that could profoundly affect the viability of agriculture in Region P.

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PLEASE take a few minutes to fill out the attached survey and RETURN the completed survey in the POSTAGE-PAID RETURN ENVELOPE by Friday April 15, 2002.

Thank you for your assistance!

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<u>Definition of the State Participation Program (SPP):</u>

The SPP enables the TWDB to purchase a temporary ownership interest in a regional project when local sponsors are unable to assume the debt for an optimally sized facility. The TWDB may acquire ownership interests in the water rights or a co-ownership interest in the property or treatment works. Currently, the TWDB's participation is limited to a maximum of 50 percent of the project costs and to the portion of the project designated as "excess" capacity. There is also a requirement that the project cannot be reasonably financed without state participation assistance, and that the optimum regional development of the project cannot be reasonably financed without the state participation. (for additional information, see the TWDB website at http://www.twdb.state.tx.us/ assistance/ assistance_main.htm)

APPENDIX C TWDB-REQUIRED SURVEY RESPONSE RECORD

Agricultural IFR Survey Results Table

	Agricultural Entity	County	Water User Type	Response to Survey (Y/N)	Already Incorporated Ag Water Conservation Strategy(s)? (Y/N)	List Incorporated Water Conservation Strategy(s)	# acres to benefit from any of the WC Strategies?	Do you have any Unimed canals?	Length of Unlined canals? feeti	Are you i interested i in canal ' liming or 'piping? 'Y/N'	Lack of funding major reason for not doing WC Strategy(s) (Y/N)	S can contribute if some type of matching funds available?	List Other WC Strategies that you would be interested in
\Box	Gabrysch Farms	Jackson	None	Y		Dry Land Farmers - they do not irrigate							Dry Land Farmers - they do not
1				Y	<u> </u>		· · · · · ·						imeale
1	S&W Farms	Juckson	Imgation		Y	have laser leveled ~ 800 acres Juser leveling, multiple inlets, and pipe	1.600	,	37,000		Y	2577	· · · · · · · · · · · · · · · · · · ·
3	Morales Farms	Jackson	Imgation	Y	Y	conversion		Y	5,000		Y	50	-
1	Triple K Farms	Jackson	Lrrigation	Y	Y	have laser leveled - 1,000 acres		Υ	:5.000	1	۲	5 40,000	using tail water
\Box						luser leveting + multiple inlets (300							
5	Mustang Exploration Co., Ltd.	Juckson	Imgation	Y	Y	acres); replaced canals w/pipes (1.500 acres)	3,000	, ,	.1.000	١	,	30%	
-						.4ser leveling + multiple inlets (100)		<u> </u>					
6	OR & M Kubecka Farms	Jackson	Imigation	Y	Y	ucres)		Y	000	1	,	\$ 5,000	sprinkler system
7	H&S Farms	Jackson	lrrigation	Y	N		3.200	Y	-(4AH)O	١	Y	\$10,000/yr : canals; \$15,000/yr : laser (eye)	presently constructing facilities to cutch runoff and tailwater from rice fields and reuse in irrigation system.
8	Stuhrenberg Farms	Jackson	Irrigation	Y	Y	Replaced canals w/ underground pipe on 824 acres		S			Y .	530Vacre i	could make improvements to 30- 100 acres/year with funding assistance
9	Harry Mauntz Furns	Juckson	Irrigation	Y	Y	Laser level/multiple inlets (250 uc): improved seed varieties (250 uc)		Y	32000+	`	Y		
10	TAES, Jackson Co.	Jackson	County- wide Irrigation	Y	Y	Laser leveling (80% of acreage); underground pipeline (1,000 acres); improved varieties (all).		¥	al existing canals are unlined	١	Y	50%	possibilities include sprinkler irrigation, conservation tillage to germinate rice seed w/o additional flooding
	Smith Farms	Jackson	lmigation	Y	N	his 4 wells caved in and are beyond repair; has not farmed rice since 1996.		-	-		-	-	his 4 wells caved in and are beyond repair; has not farmed rice since i 1996.
12	Jackson Cty. NRCS	fackson	i .	Y				T -	l				only wrote that he had no personal
μ		 -		<u> </u>	 	<u> </u>	 	 -		<u> </u>		-	farming interests
	Bergstrom Family JV	Jackson	None	Y	· · ·	does not arrigate	<u> </u>	 		· ·		!	
	Appling Farms	Lavaca	lrngation	Y	Y	Replaced canals w/ underground pipe & land leveled	900	Y	2,0,30	Y	Υ		store all waste water for reuse
H	Schmidt Brothers	Lavaca	Irrigation	Y	Y	have laser leveled - 200 acres	300	Y	7,000	Y.	Y		
3	Lynell Freeman & Freeman Family Trust	Lavaca	Irrigation	Y	Y	laser leveling de multiple injets (~840ac.)	560	Y	\$5,000	У	Υ	1574	natural grade of property would be good for a large take to store large quantity of water and pipe back up to top of property for infigation—would diramatically cut down on use of groundwater, but can't afford cost; have considered this for ~20 years.
4	Lavaca Cty Farm Bureau	Lavaca	County- wide Irrigation	Y	Υ	improved seed varieties of grass		don't use canais			-	·	There is very little irrigation done in Lavaca Co. & its from direct groundwater
5	Four E Duiry	Lavaca	Livestock	Y	N	dairy farmers - do not irrigate			1				Dairy farmers - do not irrigate
		Lavaca	Irrigation	Y	N		800	Y	- 020		Y	50%	has 800 ac to benefit from laser level/multiple inlets & 1.5 miles of
7	BMB Investments, Ltd.	Lavaca	Irrigation	Y	N N			N		N.	S	unkaawn	unlined canals that could be lined or piped preventing erosion
8	Borchers S.Y Ranches, L.P.	Lavaca	lrrigation	Y	N		none	<u> 8 </u>	<u> </u>	N	N		No
9	Wiggington Family JV	Wharton	Irrigation	Y	N	,	1,200	Y	"B.cuch"	Y	Y	25%	
\vdash										-	N but could	 	
10		Wharton	-	Y	Y	have laser leveled 1,551 acres:	1,000	Y	36 100	Y	use some	· ·	
\vdash	Schmidt Brothers (Whanon Co)		Panion B	-	Y	replaced 4.950 feet of unlined canals we pipes for all of the Region P portion of Wharton County have used laser-	-	Y	26.190 Region P	,	Y	-	tail water recovery systems, post
12	NRCS - Wharton Co.	Wharton	Irrigation	Y	Y	leveling, underground pipeline, multiple inlets	500ac.	Y	400.000	λ.	Y		management on existing canal systems, inline flow mesers
13	Lowell Farms/Wolf Run Farms	Wharton	Lirrigation	Y	Y	have laser leveled 2,000 acres: replaced 700 acres of unlined canals w pipes 3,000ac. Laser leveled; 1,500ac.	mak.injets; LS00ac.canal lining: 1.500ac pipelines		44.000	Y	Y	\$ 20,000	
14	Arroz Joint Venture	Wharton	Irrigation	Y	Y	Multiple inlets, 2,400ac. Replace canal with pipelines	-	Y	18,000	Y	N	-	-
15	Tomcat JV	Wharton	Irrigation	Y	Y	multiple inlets on all fields (-550ac/yr, improved seed varieties early or very early maturing on every acre; laser leveling to fill in ponds with highs (-10% of acreage).		Y	10.000	¥	Y	depends on new farm bill	I would like to learn about canai lining
16	Stephen Goersch Farms	Wharton	lrrigation	Υ	Y	laser level/multiple inlets, canal replacement, improved seed varieties (~500 acres)		Y	4.000	Y	Y	\$ 10,000	
17	K&L Farms	Wharton	Irrigation	Y	Y	Laser level/multiple inlets		Y	80.000	١	Y	can t give answer until we have a farm program	I have started placing drop boxes a the outlets in place of backhoc cut in the levee. These are ~\$400 each; have placed new pipes & bulkheads to require less water in the canal to water specific fields.
18	Pin Oaks Farres II	Wharton	Irrigation	Y	Y	£aser leveled -200ac: -200ac can be watered w/o use of canals	000.1	Y	12.500	Y	Y	\$150,000 (over time)	Interested in laser leveling & underground pipe; I'm unaware of canal luning & its conservation level
19	441-S Farms	Wharton	lrrigation	Y	Y	laser level/multiple inlets (800ac); replace canals w/pipes (750 ?ac or 6?)		Y	2,500	Y	Y	69%	-
20	Pete Farms	Wharton	lrtigation	Y	Y	have laser-leveled 250 acres and have installed underground irrigation pipes on 400 acres.		Y	2,500	Υ.	Y	\$4,000	
21	PSA. Wharton Co.	Wharton	None	Υ		he inswered as an individual instead of as a county agent for statistics within Wharton Co.		-		-			·
22	Frank Zboril & Sons	Wharton	lrrigation	Y	Y	(# acres unknown) laser leveling, replacing canals w/ pipes; improved seed varieties		Y		Y	Y	unknown	
						ie leases the land be farms on a year-to-y							

Important issue raised by several farmers (during survey follow-up & Region P meetings). He leases the land he farms on a year-to-year basis. The landowners won't make any water conservation improvements and without an extended lease, it would not be cost effective for him to pay for improvements himself; he has done some laser-leveling on his own, but to do underground pupe there would have to be some type of costs-sharing available and extended leases would be very helpful as well.

Agricultural Survey Response Record

	Contact Name	Job Title	Agricultural Entity	County	Street Address	City	State	Zip Code	Date Original Survey Mailed	Date Follow Up Survey #1 Mailed	Date Follow Up Survey #2 Mailed	Response Received (Y/N)
_	Johnny Kallus	Cty. Exec.Dir.	FSA. Jackson Co.	Jackson	700 N Wells St., Ste 202	Edna	TX	77957	1/18/02			1/24/02
2	Dennis Mueck	Nat.Res.Dir.	NRCS, Wharton Co.	Wharton	2225 Highway 59 Loop S	Wharton	TN	77488	1/18/02			2/1/02
3	Gary Skalicky	Partner	S & W Farms	Jackson	Hwy 172 S	Ganado	1X	77962	1/18/02			1/28/02
4	Wayne, Kent, Glenn Gabrysch	Partners	Gabrysch Farms	Jackson	2488 CR 324	Edna	TX	77957	1/18/02		-	1/28/02
	Ronald Gates	Owner	Morales Farms	Jackson	Yoakum Hwy	Edna	TX	77957	1/18/02			1/24/02
	Bill Kubecka	Agent	O.R. Sr & M. Kubecka Farms	Jackson	P O Box 1024	Palacies	TX	77465	1/18/02			2/11/02
7	John H. Roades	·	Mustang Exploration Co., Ltd.	Jackson	8 County Road 117	Edna	TX	77957	1/18/02	<u> </u>		2/7/02
	Bill Schmidt	Partner	Schmidt Brothers Jy	Lavaca	19011 FM 530	Hallettsville	TX	77964	1/18/02	٠.,	-	1/28/02
9	W.H. Appling	Manager	Appling Farms	Lavaca	PO Box 1387	El Campo	TX	77437	1/18/02	· -		1/28/02
	Lynell Freeman	 	Lyncli Freeman	Lavaca	PO Box 354	Brookshire	TX	77423	1/18/02	<u> </u>		2/5/02
11	Arthur A. Priesmeyer Layton Raun	D =====	A.A Priesmeyer & Sons	Wharton	HC 62 Box 39	El Campo	TX	77437	1/18/02	<u> </u>	<u> </u>	2/4/02 2/5/02
13	Gaynard Wigginton	Partner Partner	Wigginton Family JV	Wharton Wharton	201 W. Webb 1009 W. Norns	El Campo El Campo	TX	77437 77437	1/18/02			1/24/02
	LG Raun	Owner/Manager	Lowell Farms/Wolf Run Farms	Wharton	4 N Washington St	El Campo	TX	77437	1/18/02		<u> </u>	2/11/02
15	Craig Schmidt	-	Schmidt Brothers JV	Wharton	PO Box 784	El Campo	TX	77437	1/18/02	-		2/4/02
	David E Wagner	President	Farm Bureau, Lavaca Co.	Lavaca	PO Box M	Hailettsville	TX	77964	1/18/02	· ·		2/11/02
17	Stephen Heard	Partner	H & S Farms	lackson	POBox 74	Elmaten	TX.	77440	1/18/02			2/11/02
	Tommy Turner	Partner	Torneat JV	Wharton	HC 1 Box 58-B	Louise	TX	77455	1/18/02			2/11/02
	Steven Goetsch		Steven Goetsch Farms	Wharton	RT 2 Box 176	El Campo	TX	77437	1/18/02	<u> </u>		2/11/02
20	100 20 10000		Pin Oaks Farms	Wharton	HC 1 Box 69	Louise	TX	77455	1/18/02			2/13/02
21		Partner	K & L Farms	Wharton	PO Box 686	El Campo	TX	77437	1/18/02			2/14/02
22	Marvin E. Lesikar Billy Smith	Cty.Ext. Agent	TAES. Jackson Co. Smith Farms	Jackson Jackson	411 North Wells County Road 240	Edna Ganado	TX	77957 77962	1/18/02	2/18/02 2/18/02		2/25/02
	Bill, Steve, Marvin Stuhrenberg	Partners	Stuhrenberg Farms	Jackson	9724 State Hwy 35	Palacios	TX	77465	1/18/02	2/18/02	 -	~2-19-02
	Buddy Brock	Trustee	Harry Mauritz Farms	Jackson	PO Box 1208	Ganado	TX	77962	1/18/02	2/18/02	— <u>:</u> —	2/25/02
	Elyse Chaloupka	SecTres.	Four & Dairy Inc	Lavaca	784 CR 251	Moulton	TX	77975	1/18/02	2/18/02		2/25/02
27	Anthony & Amy Drlik	<u> </u>	Anthony & Arny Drink Iv	Lavaca	1377 Old Nada Road	Nada	TX	77460	1/18/02	2/18/02		2/28/02
28	The second secon		441 S Farms	Whatton	RT 1 Box 48-A	Louise	TX	77455	1/18/02	2/18/02		3/1/02
		Nat.Res.Mgr	NRCS. Jackson Co.	Jackson	700 North Wells St., Rm 200	Edna	TX	77957	1/18/02	2/18/02		3/7/02
			Petr Farms	Wharton	RT 3 Box 79-B	El Campo	TX	77437	1/18/02	2/18/02		3/7/02
29	Chad Graham	 	Chad Graham	Lavaca	PO Box 1448	El Campo	TX	77437	1/30/02	2/18/02		ole to contact
30			J K Farm & Ranch Gadeke Bros	Jackson	NO. Pr 1022	Port Lavaca	TX	77979	1/18/02	2/18/02		ble to contact
32		 	Cordele J V	Wharton Jackson	PO Box 1029 510 S. East Street	El Campo Edna	TX	77957	1/18/02	2/18/02		ole to contact
33	John Macha	President	Farm Bureau. Jackson Co.	Jackson Jackson	PO Box 550	Ednu	TX	77957	1/18/02	2/18/02	3/18/02	
34	Daniel Gavranovic	President	Farm Bureau, Wharton Co.	Wharton	PO Box 548	Wharton	TX	77488	1/18/02	2/18/02	3/18/02	
35	Lawrence Campbell	Cty. Exec.Dir.	FSA, Lavaca Co	Lavaca	300 S La Grange St.	Hallettsville	TX	77964	1/18/02	2/18/02	3/18/02	
36	John Williams	Cty. Exec.Dir.	FSA, Wharton Co.	Wharton	2225 Highway 59 Loop S	Wharton	TX	77488	1/18/02	2/18/02	3/18/02	3/25/02
38	Don Fabrygel	Dist.Technician	NRCS, Lavaca Co.	Lavaca	310 South La Grange Street	Hallettsville	TX	77964	1/18/02	2/18/02	3/18/02	
	Shannon DeForest	Cty.Ext.Agent	TAES. Lavaca Co.	Lavaca	PO Box 301	Hallettsville	TN	77964	1/18/02	2/18/02_	3/18/02	
	Richard L. Jahn	Cty.Ext. Agent	TAES, Wharton Co.	Whatton	210 S Rusk St	Wharton	TX	77488	1/18/02	2/18/02	3/18/02	
	John E. Dudley Bob McCan	President 1st Vice Pres	Cattle Raisers Association Cattle Raisers Association	State Region P	1301 W. Seventh St. Box 146	Fort Worth Victoria	TX	76102 77902	1/18/02 1/18/02	2/18/02	3/18/02 3/18/02	<u> </u>
43		TSI VICE FIES.	Koop Farms Iv	Jackson	P O Box 806	Edna	TX	77957	1/18/02		3/18/02	-
44		 	3n Farms	Jackson	PO Box 147	La Ward					3/18/02	
45		+					TX	77970	1/18/02	2/18/02	3/18/02	
			Shoemate Brothers Farms	Jackson	P O Box 741	Edna	TX	77970 77957	1/18/02	2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02	-
46			Allen Farms	Jackson Jackson	642 CR 107	Edna Lolita	TX	77957 77971	1/18/02 1/18/02	2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02	- - -
47			Allen Farms Sappington Farms	Jackson Jackson	642 CR 107 7135 FM 234 S	Edna Lolita Edna	TX TX	77957 77971 77957	1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02	-
47 48			Allen Farms Sappington Farms McCormack Farming Co	Jackson Jackson Jackson	642 CR 107 7135 FM 234 S P O Box 486	Edoa Lolita Edna Edna	TX TX TX	77957 77971 77957 77957	1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	10500
47 48 49	Robert Bergstrom	-	Allen Farms Sappington Farms McCormack Farming Co Bergstrom Family JV	Jackson Jackson Jackson	642 CR 107 7135 FM 234 S P O Box 486 607 Wilson St	Edna Lolita Edna Edna Edna	TX TX TX TX	77957 77971 77957 77957 77957 77957	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/25/02
47 48 49 50	Robert Bergstrom Preston Ficus		Allen Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Jv	Jackson Jackson Jackson Jackson Layaca	642 CR 107 7135 FM 234 S P O Box 486 607 Wilson St 1101 W. Norris	Edna Lolita Edna Edna Edna Edna El Compo	TX TX TX TX TX	77957 77971 77957 77957 77957 77957 77437	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/25/02
47 48 49 50 51			Allen Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms, Jy Bunge Farms Jy	Jackson Jackson Jackson Jackson Lavaca Lavaca	642 CR 107 7135 FM 234 S P O Box 486 607 Wilson St	Edna Lolita Edna Edna Edna El Compo Garwood	TX TX TX TX TX TX	77957 77971 77957 77957 77957 77957	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/25/02
47 48 49 50			Allen Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Jv	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca	642 CR 107 7135 FM 234 S P O Box 486 607 Wilson St 1101 W. Norris PO Box 32	Edna Lolita Edna Edna Edna Edna El Compo	TX TX TX TX TX	77957 77971 77957 77957 77957 77957 77437 77442	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	
47 48 49 50 51 52	Preston Ficus	Pariner	Allen Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Jv Bunge Farms Jv Bar Z Ranch Jv	Jackson Jackson Jackson Jackson Lavaca Lavaca	642 CR 107 7135 FM 234 S P O Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216	Edna Lolita Edna Edna Edna Ed Compo Garwood El Compo	TX	77957 77971 77957 77957 77957 77957 77437 77442 77443	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	
47 48 49 50 51 52 53 54	Preston Ficus		Allen Farms Sappington Farms McCormack Farming Co Bergstoon Farmily IV P F Farms. Iv Bauge Farms Iv Bar Z Ranch Iy Glaze Farms	Jackson Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249	Edna Lolita Edna Edna Edna El Campo Garwood El Campo El Campo	TX TX TX TX TX TX TX TX TX TX	77957 77971 77957 77957 77957 77957 77437 77442 77437 77443 77437 77901	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers	Partner Partner	Alten Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family IV PF Farms. IV Bange Farms Iv Bange Farms Iv Barge Farms Iv Barge Farms Iv Ranch Iv Glaze Farms Borchers S. Y. Ranches Lp Ray Alten Williamson BMB investments, Ltd	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 W 1 O'Conner Plaza	Edna Lolita Edna Edna Edna Edna El Campo Garwood El Campo El Campo Victoria Haltensville New Braunfels	TX T	77957 77971 77957 77957 77957 77957 77437 77442 77442 77443 77443 77901 77964 78130	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	· · ·
47 48 49 50 51 52 53 54 55 56	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers	Partner	Alten Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family JV PF Farms. Jv Bange Farms Jv Barg Z Ranch Jv Glaze Farms Borchers S. Y Ranches Lp Ray Alten Williamson BMB investments. Ltd One Borchers	Jackson Jackson Jackson Jackson Lavaca	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales	Edna Lolita Lolita Edna Edna Edna Edna Edna El Campo Garweod El Campo El Campo Hallensyille New Braunfels Youkun	TX T	77957 77971 77957 77957 77957 77957 77437 77442 77437 77437 77437 77901 77964 78130	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56 57	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zborti III		Allen Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Jv Bange Farms Jv Bange Farms Jv Glaze Farms Borchers S Y Ranches Lp Ray Allen Williamson BMB investments. Ltd. Outo Borchers Frank Zbori Jr & Sons	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Varaca Varaca Varaca	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conser Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 223	Edma Lohira Lohira Edma Edma Edma Edma Edma Edma Edma Edm	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77437 77437 77901 77964 78130 77995 77437	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59	Preston Ficus Charles L. Borchers Ray Allen Williamson Wilham H Borchers Otto Borchers Frank Zborti III Hierbert Rhoades	Partner	Alien Farms Sappington Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family IV PF Farms. Iv Bange Farms Iv Farms Experiments Ltd Onto Borchers Frank Zobrill Ir & Sons Rhoades Farms IV	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Vanaton Whanton	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RT 3 Box 216 FO Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 223 RT 3 Box 223	Edma Lolita Edma Edma Edma Edma Edma El Compo Garwood El Campo El Campo Victoria Hallensyille New Braunfels Yoakam Lompo Lompo Lompo Lompo Lompo Lompo	TX T	77957 77971 77957 77957 77957 77957 77957 77432 77442 77442 77437 77901 77964 78130 77995 77437 77437	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zborth III Herbert Rhoades Lowell Rain Sr	Partner	Alten Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Iv Barg Farms Iv Barg Farms Iv Barg Farms Glaze Farms Borchers S. Y Ranches Lp Ray Alten Williamson BMB investments. Ltd. Ono Borchers Frank Zhoril Jr & Sons Rhoodes Farms JV Raun Farms JV Raun Farms JV	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Wharton Wharton	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 222 PO Box 467 2706 Hutchins Lane	Edma Lolina Edma Edma Edma Edma Edma El Campo Garweed El Campo Victoria Haltensylle New Braunels Yeakun El Campo Louise Hi Campo	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77437 77437 77901 77964 78130 77955 77437 77955 77437	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/0	3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	Preston Ficus Charles L. Borchers Ray Allen Williamson Wilham H Borchers Otto Borchers Frank Zborti III Hierbert Rhoades	Partner	Allen Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Jv Bange Farms Jv Bange Farms Jv Glaze Farms Borchers S. Y Ranches Lp Ray Allen Williamston BMB investments, Ltd Onto Borchers Frank Zbori Jr & Sons Rhoades Farms JV Raun Farms JV FJ Metra Sons	Jackson Jackson Jackson Jackson Layaca Layaca Layaca Layaca Layaca Layaca Layaca Layaca Layaca Whanon Whanon Whanon	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 467 2706 Hutchuns Lane HCR I Box 39	Edma Ledita Edma Edma Edma Edmi Edmi El Campo Garwood El Campo Cl Campo Victoria Hallertsylle New Brantlels Yeakum El Campo Louise El Campo Louise El Campo Louise Louise Louise Louise Louise	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77437 77437 77901 77964 78130 7705 77437 77455	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02	3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zborti III Herbert Rhoades Lowell Raun Sr. Donald Rainer	Partner	Allen Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family IV PF Farms, Iv Bange Farms Iv Bange Farms Iv Bar Z Ranch Iv Glaze Farms Borchers S. Y Ranches Lp Ray Allen Williamson BMB Investments, Ltd Onto Borchers Frank Zbornl Ir & Sons Rhoades Farms IV Raun Farms IV Raun Farms IV Faun Farms IV Faun Farms IV Fall Allen Sons Light Paul Appling Farms	Jackson Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Wharton Wharton Wharton Wharton	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RT 3 Box 216 I O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 222 PO Box 467 2706 Hutchins Lane HCR 1 Box 39 PO Box 187	Edma Lolita Edma Edma Edma Edma Edma Edma El Compo Garwood El Campo El Campo Victoria Hallensyille New Brainfels Yoakam El Campo Louise El Campo Louise El Campo	TX T	77057 77071 77071 77057 77057 77057 77057 77437 77442 77442 77437 77901 77904 78130 7705 77437 77455 77437 77455 77437	1718/02 1718/02	2/18/02 2/18/02	3/18/02 3/18/0	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 64	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zbon'i III Herbert Rhoades Lowel Raun Sr Donald Rainer David & Lisa Green	Partner	Allen Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Iv Barg Farms Iv Barg Farms Iv Barg Farms Glaze Farms Glaze Farms Glaze Farms Glaze Farms Glaze Farms Glowther S. Y Ranches Lp Ray Allen Williamson BMB investments. Ltd. Ono Borchers Frank Zhoril Jr & Sons Rhoades Farms JV Raun Farms JV FJ Menta Sons Chin Paul Appling Farms David & Lisa Green Farms	Jackson Jackson Jackson Jackson Jackson Jackson Layaca Layaca Layaca Layaca Layaca Layaca Layaca Mynanon Whanon Whanon Whanon Whanon Whanon	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gomzales RT 3 Box 222 PO Box 467 2706 Flutchins Lane HCR 1 Box 39 PO Box 1387 PO Box 1387 PO Box 1387 PO Box 1387 PO Box 1486	Edon Ledita Edon Edon Edon Edon Edon Edon El Campo Garwood El Campo Victoria Hallettsville New Braunfels Yorakun El Campo Lomic El Campo	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77437 77437 77901 77964 78130 7705 77437 77455	1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02 1/18/02	2/18/02 2/18/02	3/18/02 3/18/02	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zborti III Herbert Rhoades Lowell Raun Sr. Donald Rainer	Partner	Allen Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family IV PF Farms, Iv Bange Farms Iv Bange Farms Iv Bar Z Ranch Iv Glaze Farms Borchers S. Y Ranches Lp Ray Allen Williamson BMB Investments, Ltd Onto Borchers Frank Zbornl Ir & Sons Rhoades Farms IV Raun Farms IV Raun Farms IV Faun Farms IV Faun Farms IV Fall Allen Sons Light Paul Appling Farms	Jackson Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Wharton Wharton Wharton Wharton	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RT 3 Box 216 I O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 222 PO Box 467 2706 Hutchins Lane HCR 1 Box 39 PO Box 187	Edma Lolita Edma Edma Edma Edma Edma Edma El Compo Garwood El Campo El Campo Victoria Hallensyille New Brainfels Yoakam El Campo Louise El Campo Louise El Campo	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77442 77437 77904 78130 77905 77437 77455 77437 77455 77437	1718/02 1718	2/18/02 2/18/02	3/18/02 3/18/0	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 64 65	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zbon'i III Herbert Rhoades Lowel Raun Sr Donald Rainer David & Lisa Green	Partner	Allen Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family IV PF Farms. Jv Bange Farms Jv Borchers S. Y Ranches Lp Ray Allen Williamson BMB investments. Lid. Ono Borchers Hernak Zhoril Ir & Sons Rhoades Farms IV Raun Farms IV Long Main Sons Lohn Paul Appling Farms David & Lisa Green Farms Chris & Patts Supak Farms	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Whanton	642 CR 107 7135 FM 234 S P O Box 486 667 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 267 RT 3 Box 272 PO Box 467 2706 Hutchurs Lane HCR 1 Box 139 PO Box 1387 PO Box 1387 PO Box 486 HCR 1 Box 46	Edma Ledita Ledita Edma Edma Edma Edma Edma El Campo Garwood El Campo El Campo Cl Campo Victoria Hallettsyille New Braunfels Yookum El Campo Louise El Campo Louise El Campo Louise El Campo Louise El Campo El Campo Louise	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77443 77443 77901 77964 78130 77905 77437 77455 77437 77455 77437 77455 77437 77455	1718/02 1718	218/02 2718/02	3/18/02 3/18/0	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 64 65 66 67 68	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zbori III Hierbert Rhoades Lowell Raun Sr Donald Rainer David & Lisa Green Chris & Patti Supak	Partner	Allen Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Faming Co Bergstrom Faminy IV PF Farms. IV Bange Farms Iv Bange Farms Iv Bange Farms Iv Bange Farms Iv Ranch IV Glaze Farms Borchers S. Y. Ranches Lp Ray Allen Williamson BMB investments. Ltd One Borchers Frank Zboril Jr & Sons Rhoodes Farms IV Raun Farms IV Raun Farms IV Raun Farms IV Finder Sons John Paul Appling Farms David & Lisa Green Farms Chris & Patt Supak Farms Haffs Farmity IV Goff & Henry Farms Double & Henry Farms	Jackson Jackson Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Mynanton Whanton	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S Seguin Ave 1307 E. Gonzales RT 3 Box 223 PO Box 407 2706 Hutchuns Lane HCR 1 Box 407 PO Box 1387 PO Box 486 HCR 1 Box 496 PO Box 496 PO Box 749 RCR 190 A 99 PO Box 1387 PO Box 496 PO Box 749 RCR 1 Box 49 PO Box 749 RCR 1 Box 49 PO Box 749 RCR 1 Box 49 RCR 1 Box 40 RCR 1 B	Edma Lustra Edma Edma Edma Edma Edma Edma Edma Edm	TX T	77957 77971 77957 77957 77957 77957 77437 77442 77442 77442 77443 77901 77905 77437 77455 77437 77455 77437 77455	I/18/02 I/18	218/02 278/02 2718/02	3/18/02 3/18/0	3/27/02
47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 64 65 66 67 68	Preston Ficus Charles L. Borchers Ray Allen Williamson William H Borchers Otto Borchers Frank Zbon'i III Herbert Rhoades Lowel Raun Sr Donald Rainer David & Lisa Green	Partner	Alten Farms Sappington Farms Sappington Farms McCormack Farming Co Bergstrom Family JV P F Farms. Iv Barg E Farms Jv Barg E Farms Jv Barg E Farms Borchers S Y Ranches Lp Ray Alten Williamson BMB Investments. Ltd One Borchers Frank Zboril Jr & Sons Rhoades Farms JV Raun Farms JV FJ Merta Sons David & Lisa Green Farms Chin & Patt Supak Farms David & Lisa Green Farms Chin & Patt Supak Farms Harfts Family JV Golf & Henry Farms	Jackson Jackson Jackson Jackson Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Lavaca Whanton	642 CR 107 7135 FM 234 S PO Box 486 607 Wilson St 1101 W. Norris PO Box 32 RT 3 Box 216 RR 3 Box 249 #1 O'Conner Plaza PO Box 403 251 S. Seguin Ave 1307 E. Gonzales RT 3 Box 222 PO Box 467 2706 Huckins Lane HCR 1 Box 39 PO Box 1387 PO Box 486 HCR 1 Box 40 PO Box 749 RT 2 Box 132	Edon Lustra Edon Edon Edon Edon Edon Edon Edon Edon	TX T	77957 77971 77957 77957 77957 77957 77957 77437 77442 77443 77443 77901 77964 78130 77905 77437 77455 77437 77455 77437 77455 77437 77455	1/18/02 1/18	218/02 2718/02	3/18/02 3/18/0	3/22/02 3/22/02

Municipal Survey Response Record

	Contact Name	Job Title	Municipal Entity	County	Street Address	City	State	Zip Code	Date Ortginal Survey Mailed	Date Follow Up Survey #1 Mailed	Date Follow Up Survey #2 Mailed	Response Received (Y/N)
ı	Hunter A. Karl	Mayor Pro-Tem	City of La Ward	Jackson	PO Box 66	La Ward	TX	77970	1/18/02			2/4/02
2	Patricia Hertz *	Treasurer	La Salle Landing WSC	Jackson	2541 FM 234 S	Edna	TX	77057	1/18/02		- 1	1/24/02
3	Michael Slobojan	City Administrator	City of Moulton	Lavaca	102 S. Main	Moulton	TN	71975	1/18/02			1/24/02
4	Norma Goetz	City Secretary	City of Shiner	Lavaca	810 N. Avenue E	Shiner	TN	77984	1/18/02		-	1/24/02
5	Calvin Cook	Dir., Public Works	City of Yoakum	Lavaca	900 Irvine Street	Yoakum	TX	77995	1/18/02	2/18/02	-	3/4/02
6	Eula MacCrowell	Secretary	Wharton Cty. WCID # 1	Wharton	PO Box 395	Louise	TX	77455	1/18/02	2/18/02	-	2/19/02
7	Madeline Shimek	President	Isaacson Mun. Util. Dist.	Wharton	PO Box 83	El Campo	TX	77437	1/18/02	2/18/02		3/5/02
8	Tom Donnelly	City Administrator	City of Hallettsville	Lavaca	101 N. Main St.	Hallettsville	TX	77964	1/18/02	2/18/02	3/18/02	4/15/02
9	Bill Haick	Vice President	Jackson Cty. WCID # 1	Jackson	PO Box 407	Lohta	TN	77971	1/18/02	2/18/02	3/18/02	4/18/02
10	Mary Baker	System Sect.	Jackson Ctv. WCID # 2	Jackson	PO Box 574	Vanderbilt	TX	77991	1/18/02	2/18/02	3/18/02	3/20/02
11	James Killough	Utilities Director	City of Edna	Jackson	126 W. Main St.	Edna	TX	77057	1/18/02	2/18/02	3/18/02	<u> </u>
12	Terry Ramey	Dir., Public Works	City of Ganade	Jackson	112 E. Putman	Ganado	TX	77962	1/18/02	2/18/02	3/18/02	·
13		Office Manager	Cape Carancahua WSC	Jackson	HC 2-Box 214	Palacios	TN	77465	1718/03	2/18/02	3/18/02	<u> </u>
14	John Steelman	Dir., Public Works	City of El Campo	Wharton	315 E. Jackson St.	El Campo	TX	77437	1/18/02	2/18/02	3/18/02	

TWDB - Formatted IFR Data Table (for Agricultural IFR Survey)

w Fire	UG_NAME ***	WUG_ID	WUG_ RWPG	SEQ	CITY	WUG_ COUNTY	WUG BASIN JO:	VINSAVAME 1	8.5 0.10 0.10	SOJID	SO_NAME	# Survey Regulation in the survey of the sur	Ç. Ç.	Strategy Simple- toer ususp Date	much can P.S. afford from C current utility.	Participation Program, how imuch can P.S. afford from carrent utility revenue	How in the property of the pro	Notes
1	IRRIGATION	161004120	Р	1004	1004	120	15	OVERDRAFTING	40	12015	GULF COAST	13	-		-			
2	IRRIGATION	161004120	Р	1004	1004	120	16	THE AQUIFER	40	120131	AQUIFER	_ '3		_	-	-	-	Refer to
3	IRRIGATION	161004241	Р	1004	1004	241	15	OVERDRAFTING	40	24115	GULF COAST	14	- 1	-		-	-	Survey Results
4	IRRIGATION	161004241	Р	1004	1004	241	16	THE AQUIFER	40	24113	AQUIFER	'4	-	-	-	-	-	Table for
5	LIVESTOCK	161005120	Р	1005	1005	120	17	OVERDRAFTING THE AQUIFER	40	12015	GULF COAST AQUIFER	0	-	-	•	-	-	details on water conser-
6	LIVESTOCK	161005143	Р	1005	1005	143	16	PUMPING AVAILABLE GROUNDWATER	40	14315	GULF COAST AQUIFER	0			•	-	•	vation

* Note: The purpose of the Agricultural Water Infrastructure Survey is to REDUCE the need for new water supplies as listed under WMS_NAME by implementing agricultural WATER CONSERVATION PRACTICES such as laser leveling of fields with multiple water inlets; converting open unlined canals to underground pipes; and, using improved seed varieties that require less water. Please refer to the Survey Results table for water conservation details.

** Note: Unable to divide responses by river basin, only by county

*** Note: This table excludes irrigation in Lavaca County (8 responses). Please refer to survey result table for all survey details.

- 1) Region P / Irrigation / Jackson Co. / Colorado-Lavaca Basin
- 2) Region P / Irrigation / Jackson Co. / Lavaca Basin
- 3) Region P / Irrigation / Wharton Co. / Colorado-Lavaca Basin
- 4) Region P / Irrigation / Wharton Co. / Lavaca Basin
- 5) Region P / Livestock / Jackson Co. / Lavaca-Guadalupe Basin
- 6) Region P / Livestock / Lavaca Co. / Lavaca Basin

Seq # 1004 = Irrigation County # 241 = Wharton Co. Basin # 17 = Lavaca-Guadalu Seq # 1005 = Livestock Basin # 14 = Colorado Basin # 18 = Guadalupe

APPENDIX D SURVEY RESULTS TABLES (AND TWDB-FORMATTED DATA TABLE)

Municipal IFR Survey Results Table

P	olitical Subdivision (Pol/Sub)	Water User Type	Response from Pol/Sub (Y/N)	Strategy Name	Strategy Date	Total Capital Cost (\$)	Does Utility have infrastructure needs?	Q1 (\$) Can Pay	Q2 (\$) Can Pay W/State Participation	Q3 (\$) Cannot Pay
1	La Salle Landing WSC	Municipal	Y	Drilling new well and re-piping subdivision (61 lots)	?	?	Y	~ 50%		
2	City of Moulton	Municipal	Y	1.) Rebuild main pumphouse; 2.) Upgrade 5,000ft of mains; 3.) Water tower replacement; 4.) New well.	1.) Feb 2002; 2.) Aug 2002; 3.) 2006; 4.) 2010	-	N	-	-	-
3	City of Shiner	Municipal	Y	-	•	-	N		-	-
4	City of La Ward	Municipal	Y	-	_	-	N	-	-	-
5	Wharton Cty, WCID #1	Municipal	Y	Water line improvements; possibly adding another well (there are 2 existing wells)	-	-	Y	50%	-	-
6	Jackson Cty., WCID #2	Municipal	Y	 Need a new water well & necessary lines to connect into existing WTP & distribution system; 2.) Need to expand existing distribution system to accommodate 600 resident population and 1,200 transient population. 	-	-	Y	unknown	-	-
7	City of Yoakum	Municipal	Y	water mains = \$15,280,624; GST & EST = \$2,190,000; booster stations = \$240,000; controls = \$240,000; wells = \$1,680,000; total = \$19,630,624. TWDB projected 2050 population is 9,836	-	\$ 19,631,000	Y	50%	-	-
8	Isaacson MUD	Municipal	Y	1.) water & sewer mainline extensions for new customers (small #, maybe 6); 2.) replace original 2nd grade material (was supposed to be copper on original blueprints) for 200+ customer lines, each 10feet long.	-	j	Y	unknown	-	-
9	Jackson Cty., WCID #1	Municipal	Υ	Need: Aeration tank, pumps, and related materials. Population 800; 212 household connections	-	-	N	\$ 25,000	-	-
10	City of Halletsville	Municipal	Y	wells, lines, elevated & above ground storage tanks, booster station. Residential/Commercial/Industrial projected use in 2051 will be 433 MG/year. If drastic conservation measures are inmplemented this decade, normal grouwth & conservation will yield a 600 MG/year usage.	-	-	Y	unknown	-	-

Note: the TWDB did not provide an IFR Data Table Template for the Region P Municipal Survey.

Below is a summary of results from the responses to the Agricultural Infrastructure Survey:

(1) Total # surveyed:	71	100% of surveys sent out
(2) # responses to date:	35	49% of surveys sent out
(5 respondents, 7%, do not irrigate; an additional	4 farms c	ould not be contacted, 5.6%)
(3) # respondents that have already incorporated sor	ne water	conservation practices:
	23	66% of those responding
of these 23 respondents:		
(3a.) laser level / multiple inlets	19	83% of these respondents
(3b.) canal lining	0	0% of these respondents
(3c.) canal replacement w/ pipes	12	52% of these respondents
(3d.) improved seed varieties	5	22% of these respondents
(4) Total acreage already laser leveled	12,891	not all respondents specified a value
Total acreage still needing laser leveling	14,060	not all respondents specified a value
Cost estimate to maintain existing laser leveling &	creating 1	new laser leveling: \$2,937,659
(Laser leveling needs to be re-done about every	third use,	which would be ~ every 9 years)
(5) Total acreage already replaced with pipes	7,474	not all respondents specified a value
Total acreage still needing pipe replacement	6,600	not all respondents specified a value
Total canal feet still needing pipe replacement	423,110	not all respondents specified a value
Cost estimate to replace canals w/ new undergrour	nd piping:	\$3,604,897
(6) # respondents with unlined canals:	24	69% of those responding
(7) # feet of existing unlined canals:	423,110	feet
Of those with unlined canals, 20 respondents specific	ed a lengt	h, for which the sum is shown above.
Note: Wharton Co. NRCS estimated there was prob	ably a tota	al of 400,000 feet of unlined canals in
Region P, which is significantly less than the farmer	s are indic	ating.
(8) # respondents interested in water conservation:	20	83% % based on the 24 respondents
(9) # respondents lacking funding for conservation:	_22	92% indicating need
(10) # respondents that gave an estimate of the mone	y they co	uld afford to pay for water conservation
efforts, which include laser leveling, multiple in		
improved so		
(10a.) gave answer as actual dollar amount	8	33% % based on the 24 respondents
(10b.) gave answer as % of the total cost	7	29% indicating need

Based on information from the 2001 Adopted Region P Water Plan (rice acreages and cost data), below are estimations of the funding needed for agricultural infrastructure:

	* 5-Year Average	Laser Level	Pipeline Replacement
Region P County	Planted Rice		of Canals
	Acreage (1994-1998)	Costs	Costs**
Lavaca Co	3,290	\$358,610	\$560,616
Jackson Co	24,873	\$2,711,157	\$4,238,359
Wharton Co (partial)	23,553	\$2,567,277	\$4,013,431
Total	51,716	\$5,637,044	\$8,812,406

^{*} Estimate that 1/3 of a farmer's land is planted per year for rice; and planted acreage is rotated every year.

^{**} Cost based on estimate of an average of 20 feet of canal per acre.

APPENDIX E ACTUAL SURVEY RESPONSES RECEIVED

(Xerox copies of completed survey forms)

during the 50-year planning period? Yes_No	d infrastructure improvement needs No That size population and/or size of the infrastructure, if necessary):
Does your water utility have any current or projected infrastructure improvement needs during the 50-year planning period? Yes No If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary): Rebuild more pumphouse Fcb-2002 //200 pops Water Tower replacement 2006 Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No If No - How much of the necessary capital costs could your utility pay? \$ If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No - For the costs your utility cannot pay, what funding option(s) would you propose?	d infrastructure improvement needs No That size population and/or size of the if necessary):
Does your water utility have any current or projected infrastructure improvement needs during the 50-year planning period? Yes No	d infrastructure improvement needs No That size population and/or size of the if necessary):
If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary): Rebuild many pumphouse Fcb-2002 /200 pops Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes L No If No - How much of the necessary capital costs could your utility pay? \$ If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No - For the costs your utility cannot pay, what funding option(s) would you propose?	No That size population and/or size of , if necessary):
Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes \(\bullet \) No— If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes \(\bullet \) No— If No - For the costs your utility cannot pay, what funding option(s) would you propose?	, if necessary):
Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No If No - How much of the necessary capital costs could your utility pay? \$ If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No - For the costs your utility cannot pay, what funding option(s) would you propose?	Feb-2002 1,200 pop. S
Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No If No - How much of the necessary capital costs could your utility pay? \$ If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No - For the costs your utility cannot pay, what funding option(s) would you propose?	Aug 2002
Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No If No - How much of the necessary capital costs could your utility pay? \$ If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No - For the costs your utility cannot pay, what funding option(s) would you propose?	F-7-F00-C
Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No	
Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No If No - How much of the necessary capital costs could your utility pay? \$ If No - Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No - For the costs your utility cannot pay, what funding option(s) would you propose?	2010-2012
If No – Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No If No – For the costs your utility cannot pay, what funding option(s) would you propose?	iated with the needed infrastructure
these utility improvements? Yes No If No – For the costs your utility cannot pay, what funding option(s) would you propose?	our utility pay? \$
	5 ji

Name of Municipality: <u>CITY OF SHINER</u>	
Contact Person: JOHN KURTZ or Norma Goetz	Title: Water Production Supervisor
Telephone: (361) 594-3362	E-mail:
Does your water utility have any current or pluring the 50-year planning period? Yes	
If Yes - Please list what these needs are an commercial/industrial water use(s) (use additional	<u> </u>
	And the second s
 Does your water utility have sufficient revenue rate and tax increases, to cover the capital cos improvements listed in question 1? Yes 	its associated with the needed infrastructure
If No - How much of the necessary capital costs	could your utility pay? \$
If No – Would you be interested in accessing in these utility improvements? Yes	
If No – For the costs your utility cannot pay, What, if any, state funding sources would you co	

Conta	et Person: HUNTER A - KARL Title: MAYOR PRO-TEM
elepl	none: (361) 872-2468 E-mail:
	bes your water utility have any current or projected infrastructure improvement needs ring the 50-year planning period? Yes X No
CÓ	Yes - Please list what these needs are and for what size population and/or size of mmercial/industrial water use(s) (use additional sheets, if necessary):
<u>ii</u>	ater utility really doesn't need improvements, but we will be looking into expanding our wasterwater facility
ù	n the future
	· · · · · · · · · · · · · · · · · · ·
. Do	es your water utility have sufficient revenue sources, including implementing necessary
rat	e and tax increases, to cover the capital costs associated with the needed infrastructure
rat im	es your water utility have sufficient revenue sources, including implementing necessary e and tax increases, to cover the capital costs associated with the needed infrastructure provements listed in question 1? YesNo
rat im If I	e and tax increases, to cover the capital costs associated with the needed infrastructure provements listed in question 1? YesNo
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? No – For the costs your utility cannot pay, what funding option(s) would you propose? that, if any, state funding sources would you consider? (use additional sheets, if necessary)
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? YesNo
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? No – For the costs your utility cannot pay, what funding option(s) would you propose? that, if any, state funding sources would you consider? (use additional sheets, if necessary)
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? No – For the costs your utility cannot pay, what funding option(s) would you propose? that, if any, state funding sources would you consider? (use additional sheets, if necessary)
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? Yes No
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? No – For the costs your utility cannot pay, what funding option(s) would you propose? that, if any, state funding sources would you consider? (use additional sheets, if necessary)
ration If I the	No – Would you be interested in accessing in the State Participation Program to help fund see utility improvements? No – For the costs your utility cannot pay, what funding option(s) would you propose? that, if any, state funding sources would you consider? (use additional sheets, if necessary)

	Region P Municipal Water Infrastructure Financing Survey
Na	me of Municipality: Le Sule Landing MSC.
Co	ntact Person: fatricia Hertz Title: Zhen.
Tel	lephone: (361) 78.26931 E-mail: Patricia hertz@ acl. Com
1.	Does your water utility have any current or projected infrastructure improvement needs during the 50-year planning period? Yes No
	If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary):
	Lilling rea well and red-peping sub-devision (6/ lot 5)
2.	Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? YesNo
	If No - How much of the necessary capital costs could your utility pay? \$ for the help help
	If No – Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes
	If No – For the costs your utility cannot pay, what funding option(s) would you propose? What, if any, state funding sources would you consider? (use additional sheets, if necessary)
	Exertor Sugartions do to
	regularments are to be
	- DA A met ???
	I.F.S. In the kenone hale An Region

Moterial aldrew (atricial) esty

Nam	e of Municipality: (1) harton Count, Water Control & Improvement
Cont	act Person: Eccla Mar Crowell Title: Secretary
Telep	phone: (919) 648 2615 E-mail:
d If	Ooes your water utility have any current or projected infrastructure improvement needs turing the 50-year planning period? Yes No f Yes - Please list what these needs are and for what size population and/or size of ommercial/industrial water use(s) (use additional sheets, if necessary): Amount lenter Lines Cassilality of adding another well to the equiples of the equiples.
ra ir	Does your water utility have sufficient revenue sources, including implementing necessary ate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No
If	f No – How much of the necessary capital costs could your utility pay? \$ 5000
If	f No – Would you be interested in accessing in the State Participation Program to help fund hese utility improvements? Yes No
	f No – For the costs your utility cannot pay, what funding option(s) would you propose? What, if any, state funding sources would you consider? (use additional sheets, if necessary)
_	
_	
-	
_	

Na	ame of Municipality: Isaacson Municipal Utility District
	ontact Person: Laurie Jahn Title: Manager
Te	elephone: (979) 543-6844 E-mail:
	Does your water utility have any current or projected infrastructure improvement needs
	during the 50-year planning period? Yes No
	If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary):
	1) Water & Sewer Main Line extensions
	for new Customers. (Small) Maybe 6
	new Customers.
	a) Replace Original second grade material, which was suppose to be copper on
	which was suppose to be copper on
	orginal Blueprints (Large) 200 + Customer
	lines each 10ft. 10ng.
2.	rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? YesNo
	If No – How much of the necessary capital costs could your utility pay? \$ <u>not Sure</u>
	If No – Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No
	If No - For the costs your utility cannot pay, what funding option(s) would you propose? What, if any, state funding sources would you consider? (use additional sheets, if necessary)

ontact Person: Calvin Cook	Inte:	City Manager		
lephone: (361) 293-6321	E-mail:			
Does your water utility have any curreduring the 50-year planning period?		•		
If Yes - Please list what these needs are and for what size population and/or size o commercial/industrial water use(s) (use additional sheets, if necessary):				
Water Mains	\$15,280,624			
Elevated & Ground Storage	2,190,000			
Booster Stations	240,000			
Controls	240,000			
Wells	1,680,000			
Total	\$19,630,624			
TWDB Pop. Projection 2050 =	9,836			
Does your water utility have sufficient rate and tax increases, to cover the cap improvements listed in question 1?	revenue sources, includital costs associated w	ling implementing necessar		
Does your water utility have sufficient rate and tax increases, to cover the cap	revenue sources, includital costs associated with Yes No X	ling implementing necessar ith the needed infrastructur		
Does your water utility have sufficient rate and tax increases, to cover the cap improvements listed in question 1?	revenue sources, includital costs associated with Yes NoX all costs could your utilities in the State Participal costs.	ling implementing necessar ith the needed infrastructur y pay? \$50% pation Program to help fun-		
Does your water utility have sufficient rate and tax increases, to cover the cap improvements listed in question 1? If No – How much of the necessary capital of the necessary capital forms.	revenue sources, includital costs associated with Yes No X all costs could your utilitiesing in the State Participal Yes X No No No Yes	ling implementing necessar ith the needed infrastructur by pay? \$50% ipation Program to help function(s) would you propose		
Does your water utility have sufficient rate and tax increases, to cover the cap improvements listed in question 1? If No – How much of the necessary capital of the No – Would you be interested in access these utility improvements? If No – For the costs your utility cannot be a controlled to the costs of the costs	revenue sources, includital costs associated with Yes No X all costs could your utilitiesing in the State Participal Yes X No No No Yes	ling implementing necessar ith the needed infrastructure by pay? \$50% pation Program to help function(s) would you propose		
Does your water utility have sufficient rate and tax increases, to cover the cap improvements listed in question 1? If No – How much of the necessary capital of the No – Would you be interested in access these utility improvements? If No – For the costs your utility cannot be a controlled to the costs of the costs	revenue sources, includital costs associated with Yes No X all costs could your utilitiesing in the State Participal Yes X No No No Yes	ling implementing necessary ith the needed infrastructure by pay? \$50% pation Program to help function(s) would you propose		
Does your water utility have sufficient rate and tax increases, to cover the cap improvements listed in question 1? If No – How much of the necessary capital of the No – Would you be interested in access these utility improvements? If No – For the costs your utility cannot be a controlled to the costs of the costs	revenue sources, includital costs associated with Yes No X all costs could your utilitiesing in the State Participal Yes X No No No Yes	ling implementing necessar ith the needed infrastructur by pay? \$50% ipation Program to help function(s) would you propose		

Region P Municipal Water Infrastructure Financing Survey

Name of Municipality:) Action Course WAITE Confine & IMP. DIST. #2
Contact Person: MAKY PAKER Title: SYSTEM SECT.
Telephone: (36/) 284-3572 E-mail:
 Does your water utility have any current or projected infrastructure improvement needs during the 50-year planning period?
If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary):
NED A NEW MATTER WELL TOND NECESSARY LINES TO CONNECT
INTO EXITUDE FROM CHARL DECARROOT PLANT & DISTRIBUTION
STATEM. FLOO WIND TO EXPAND ETISTING WINTERSTON
AND 1200 TRANSIEN PERSONAND
MALE CLEEN THE THE STATE OF THE
2. Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No
If No - How much of the necessary capital costs could your utility pay? \$ 100 KNOWN
If No – Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes No
If No - For the costs your utility cannot pay, what funding option(s) would you propose? What, if any, state funding sources would you consider? (use additional sheets, if necessary)
WE would consider ANY SOURCES OF FUNDING THAT
AKE ALMILABLE.
NEED MOLE INFORMATION ABOUT THE STATE PARTICIPATION FROMRAM

15124727518-287

TCB Job. No. 37-21187-003

787

ATTN: CONNIE HINOTOS

Region P Municipal Water Infrastructure Financing Survey

Name of Municipality: Hallett ville
Contact Person: Tom Donnelly Title: Coty Alministrator
Telephone: (36() 798-368/ E-mail: +dhville a queromenet.
1. Does your water utility have any current or projected infrastructure improvement needs during the 50-year planning period? Yes No
If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary):
wells, lines, eleveted + above ground
stone or tank, and booken station
Res /comi/ + Inli/ po justed we in 205/
will be 433 regalfyr If drastre
alyxervation measures are in ple monted this
decade Normal growth & conservation will
yield a 600 rigol/yr usage.
2. Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed
infrastructure improvements listed in question 1? Yes
f No - How much of the necessary capital costs could your utility pay? S (a known 70
f No - Would you be interested in accessing in the State Participation Program to help fund hese utility improvements? Yes No No
if No - For the costs your utility cannot pay, what funding option(s) would you propose? What.
if any, state funding sources would you consider? (use additional sheets, if necessary)
Note: At some point water charges will
exced contoners ability to pay - cowing
decreasing it of curomen and an
exponentialing creaming cost of service. Our
crystal ball is foggy. We do not know of
What point assistance will be required

April 11, 2002

Region P Municipal Water Infrastructure Financing Survey

Na	ne of Municipality: Jackson County Water Control and Improvement District No
Tel	ephone: (361) 874-4369 E-mail: baneyke. Com
	Does your water utility have any current or projected infrastructure improvement need during the 50-year planning period? Yes X No
	If Yes - Please list what these needs are and for what size population and/or size of commercial/industrial water use(s) (use additional sheets, if necessary):
	1) Aieriation Tank, pumps, and related materials
	population - 800
	212 household connections
2.	Does your water utility have sufficient revenue sources, including implementing necessary rate and tax increases, to cover the capital costs associated with the needed infrastructure improvements listed in question 1? Yes No_X_
	If No – How much of the necessary capital costs could your utility pay? \$
	If No – Would you be interested in accessing in the State Participation Program to help fund these utility improvements? Yes X No
	If No – For the costs your utility cannot pay, what funding option(s) would you propose? What, if any, state funding sources would you consider? (use additional sheets, if necessary)

Na	me of Agri	cultural Organization:	mid brot	Ehers J/V	
Co	ntact Perso	n: Craig Schmidt	T	itle: Partner	
Te	lephone: (E-mail:		
cor		strategies and their projected	_	of recommended agricultural water ere used in developing the Lavaca	
	1 2 3 4	Water Conservation Strategy Laser leveling + multiple inlets Canal lining Replacing canals with pipes Improved seed varieties	Unit Cost (\$) \$109 per acre \$0.51 per foot -	Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.	
1.	1. Have you already incorporated any of the recommended agricultural water conservations strategies into your farming practices? Yes No				
2.	If Yes – H	crently have any <u>unlined</u> canals low many thousands of feet?	6,190 Box	No onversion? Yes No	
3.	Yes If Yes - I	No	ontribute to mak	ter conservation farming practices?	
4 .	Are there	other water conservation mea	asures that you h	nave implemented or would like to bove? Please list:	

Na	me of Agricultural Organization: BORCHERS Southern Y RANCHES L.P.
	ntact Person: CHARLES L. BORHERS MO. Title: MANAGING PARTNER
	lephone: (361) 575-1297 E-mail:
cor	ease answer the following questions using the list below of recommended agricultural water asservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: Laser leveling + multiple inlets \$109 per acre Canal lining \$0.51 per foot Replacing canals with pipes \$8.52 per foot Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No If Yes - Please list which ones you are currently using and for how many acres:
	If No – How many acres could benefit from each of the recommended strategies?
2.	Do you currently have any unlined canals? Yes No If Yes - How many thousands of feet?
3.	If Yes – Would you be interested in canal lining or pipe conversion? Yes No Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:

Na	ame of A	gricultural Organization: <u>Musta</u>	ing Exploratio	on Co., Ltd.	
Co	ontact Pe	rson: John H. Roades	Title	e: President	
Te	lephone	(979) 648-2641	E-mail:		
со	nservatio	wer the following questions using on strategies and their projected uvater Plan.			
		Water Conservation Strategy	Unit Cost (\$)	Assumptions for strategy unit costs:	
	2	Laser leveling + multiple inlets Canal lining	\$109 per acre \$0.51 per foot	Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes	
	3	Replacing canals with pipes		strategy applicable to 70% of irrigated acreage.	
	4	Improved seed varieties	•	Canal lining – assumes 38 ac-ft water saved per canal mile.	
1.	strategi	you already incorporated any of es into your farming practices? - Please list which ones you are a 1-300 acres	Yes_x No_ currently using and		
			· · · · · · · · · · · · · · · · · · ·		
		3- 1,500 acres			
	If No -	How many acres could benefit fro Have an additional 2,00		mmended strategies?ing underground irrigation	pipe
		and leveling.			
2.	If Yes-	currently have any <u>unlined</u> canals - How many thousands of feet?1 - Would you be interested in canal	1,000'		
3.		of funds a primary reason for not i	ncorporating water	conservation farming practices?	
	If Yes	- How much money could you co	ontribute to making	g improvements, if some type of	
	matchi	ng funds were available? \$	30%		
4.	Are the	ere other water conservation mea nent into your farming practices that	sures that you have		

Na	me of Agricultural Organization: <u>Gabrysch Farms</u>
Со	ntact Person: Wayne Kent, Glenn Title: furtners Jephone: (36/1) 1827- 23// F-mail:
Te	lephone: (36/) 782-23// E-mail:
cor	ease answer the following questions using the list below of recommended agricultural water asservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No
-	If No – How many acres could benefit from each of the recommended strategies?
2.\	Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? Yes No
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available?
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:

	ntact Pers	son: GAYNARD Wigg,	NTON T	itle: PARTNER	
el	ephone: <u>(</u>	(979) 5435580	E-mail:	- NONE	
le:	ase answ	er the following questions using	the list below	of recommended agricultural water	
on	servation			ere used in developing the Lavaca	
	T	Water Conservation Strategy	Unit Cost (\$)	Assumptions for strategy unit costs:	
	1	Laser leveling + multiple inlets	\$109 per acre	Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes	
	2	Canal lining	\$0.51 per foot	strategy applicable to 70% of irrigated acreage.	
}	3 4	Replacing canals with pipes Improved seed varieties	-	Canal lining – assumes 38 ac-ft water saved per canal mile	
L		Improved seed varieties	<u> </u>	per canal mile.	
	Have vo	ou already incorporated any of	the recommend	ed agricultural water conservation	
		s into your farming practices?		0	
	-			and for how many acres:	
	II ICS -	ricase list which ones you are	currently using	and for now many acres.	
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	TC NI T	111 6.6	1 6.1	11	
				commended strategies? 1200	
	ACK	ES IRRIGATES L	AND AC	LES NOW INRICE	
	-	,		, , , , , , , , , , , , , , , , , , , ,	
	0-0	77			
	ROTATION OF 14 FBX IN + COME GFBX OUT-600 AG PERGETX - FLOOD TREIGHTION Do you currently have any unlined canals? Yes No_				
	Do you o	currently have any unlined canals	? Yes_ <u></u>	No	
	If Ye s –	How many thousands of feet?	BUNG	4	
	If Ye s –		BUNG	4	
	If Yes – If Yes –	How many thousands of feet? Would you be interested in cana	Bunce I lining or pipe co	onversion? Yes No	
	If Yes – If Yes – Is lack o	How many thousands of feet? Would you be interested in cana f funds a primary reason for not	Bunce I lining or pipe co	f .	
	If Yes – If Yes – Is lack o	How many thousands of feet? Would you be interested in cana	Bunce I lining or pipe co	onversion? Yes No	
	If Yes – If Yes – Is lack o Yes	How many thousands of feet? Would you be interested in cana f funds a primary reason for not No	Bowes I lining or pipe co	onversion? Yes No ter conservation farming practices?	
	If Yes – If Yes – Is lack o Yes If Yes –	How many thousands of feet? Would you be interested in cana f funds a primary reason for notNo How much money could you of	BUNCS I lining or pipe contribute to make	onversion? Yes No ter conservation farming practices? sting improvements, if some type of	
	If Yes – If Yes – Is lack o Yes If Yes –	How many thousands of feet? Would you be interested in cana f funds a primary reason for not No	BUNCS I lining or pipe contribute to make	onversion? Yes No ter conservation farming practices? sting improvements, if some type of	
	If Yes – If Yes – Is lack o Yes If Yes – matching Are ther	How many thousands of feet?	Bowes I lining or pipe contribute to male and the source of the source	onversion? Yes No ter conservation farming practices? sing improvements, if some type of	
	If Yes – If Yes – Is lack o Yes If Yes – matching Are ther	How many thousands of feet?	Bowes I lining or pipe contribute to male and the source of the source	onversion? Yes No ter conservation farming practices? king improvements, if some type of OSSIBLE have implemented or would like to	
	If Yes – If Yes – Is lack o Yes If Yes – matching Are ther	How many thousands of feet?	Bowes I lining or pipe contribute to male and the source of the source	onversion? Yes No ter conservation farming practices? king improvements, if some type of a SSIBLE have implemented or would like to	

Name of Agricultural Organization: 54W FAROUS
Contact Person: GARY SKAlicky Title: PARTNER
Telephone: (361) 771-2680 E-mail:
Please answer the following questions using the list below of recommended agricultural water conservation strategies and their projected unit costs that were used in developing the Lavaca Regional Water Plan. Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: Laser leveling + multiple inlets \$109 per acre Laser leveling + multiple inlets - assumes 1.4
2 Canal lining \$0.51 per foot strategy applicable to 70% of irrigated acreage. 3 Replacing canals with pipes - Canal lining – assumes 38 ac-ft water saved per canal mile.
Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No If Yes - Please list which ones you are currently using and for how many acres:
We also have About 1600 Acres that we
Are farming that need laser leveling but cost wen't alsow us to at today's profits on Rice. 2. Do you currently have any unlined canals? Yes No If Yes - How many thousands of feet? 37,000 ft If Yes - Would you be interested in canal lining or pipe conversion? Yes No
3. Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
If Yes — How much money could you contribute to making improvements, if some type of matching funds were available? But Coald only Contribute About 14 of Actual Cost of instalation of Conservation measures at today's farm Profits that you have implemented or would like to have Listed implement into your farming practices that are not listed above? Please list: Above.

Na	ame of Agric	ultural Org	رے Zanization: کے	midt Bro	3
Co	ontact Person	: Bill	Schmidt	<u> </u>	itle: Partner
				E-mail: _	
Ple	ease answer nservation si egional Wate	the follow trategies ar r Plan.	ing questions usi	ng the list below	of recommended agricultural water vere used in developing the Lavaca
		Laser levelir Ca Replacing	g + multiple inlets nal lining canals with pipes d seed varieties	\$109 per acre \$0.51 per foot	 Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	1. Have you already incorporated any of the recommended agricultural water conserva strategies into your farming practices? Yes No				
2.	If Yes – Ho	w many th	ousands of feet? _		No onversion? Yes No
3.	Is lack of fu	•	ary reason for not	incorporating wa	ter conservation farming practices?
			•	contribute to mak	king improvements, if some type of
4. 				•	nave implemented or would like to above? Please list:

Senate Bill 2 Survey

Ctyl Mc. Dit Con Co. Later Con January 15, 2002

Na	me of Agricultural Organization: Triple KFarms			
Co	ntact Person: Johny Jakallus Title: Manager			
	lephone: (381) - 782 - 2795 E-mail:			
cor	ase answer the following questions using the list below of recommended agricultural water is a servation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.			
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated: & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.			
1. Have you already incorporated any of the recommended agricultural water conserval strategies into your farming practices? Yes No If Yes - Please list which ones you are currently using and for how many acres: Sasen Leveling — 1000 acres If No - How many acres could benefit from each of the recommended strategies?				
2.	Do you currently have any <u>unlined</u> canals? Yes No No No If Yes – How many thousands of feet? 15,000 If Yes – Would you be interested in canal lining or pipe conversion? Yes No No			
3.	 Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No If Yes - How much money could you contribute to making improvements, if some type of 			
4.	matching funds were available? \$			

Name of Ag	gricultural Organization:	1 Frience	- & Freeman Fam. Ly TR4
	son: Lu Avne Freema		/
Telephone:	(281) 391-1122	E-mail:	freefam@fbcc.com
	n strategies and their projected		of recommended agricultural water vere used in developing the Lavaca
	Water Conservation Strategy	Unit Cost (\$)	Assumptions for strategy unit costs:
1 1	Laser leveling + multiple inlets	\$109 per acre	Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes
3	Canal lining Replacing canals with pipes	\$0.51 per foot	strategy applicable to 70% of irrigated acreage.
4	Improved seed varieties		Canal lining – assumes 38 ac-ft water saved per canal mile.
STRATE	How many acres could benefit from	icros cy	
If Yes –	currently have any <u>unlined</u> canals How many thousands of feet?	30-35	- <u></u>
If Ye s –	Would you be interested in cana	I lining or pipe co	onversion? Yes No
	funds a primary reason for not No	incorporating wa	ter conservation farming practices?
	· · · · · · · · · · · · · · · · · · ·	,	king improvements, if some type of
matchin	g funds were available? \$_ma	ybe 10 or 1	50
4. Are the implement	re other water conservation me ent into your farming practices th	asures that you lat are not listed a	nave implemented or would like to above? Please list: Large lake
on Esst	Top of property Ar	re large a	The natural slope of this
ites we	all mike a great a	mest Ket	The intruit stope of this
UST 15	MILEUSON PEDER do	na lace con	round weter use;
- implean	ented, could diametica	Thy CUT &	OUNS MITOT 455

Na	me of Agr	icultural	Organizatio	on: <u>DR</u> 5	r+ Martha	Rube	cku	Farn	95
Co	ntact Pers	on:_ <i>13 i t</i>	1 Kubec	Ka		Title:	agent		
Te	lephone: <u>(</u>	36/)	971-2	667	E-mail:		, 		
CO		strategie			g the list below unit costs that				
	1 2 3 4	Laser le Replac	Conservation veling + mult Canal lining eing canals with coved seed va	iple inlets tth pipes	Unit Cost (\$) \$109 per acre \$0.51 per foot -	Laser ac-ft v strateg Canal	leveling + water save gy applica	multiple int d per acre in ble to 70% o	y unit costs: ets - assumes 1.4 igated: & assumes f irrigated acreage. c-ft water saved
1.	strategies If Yes -	into you Please lis	r farming p st which or 100 ac	ractices? nes you are	the recommen Yes	No and for	how n	nany acr	es:
2.	If Yes - I	How man	y thousand	s of feet? _	? Yes_ <u>\</u> 10, 900' I lining or pipe (_			No
3.	Yes_i	No How mu	ch money	could you c	incorporating w contribute to ma	nking imp			
4.	Are there implemen	e other w	ater conse ur farming	rvation mea	asures that you at are not listed	have impabove? I	Please	list:	

Na	me of Agricultural Organization: USDA - Natural Resources Conservation Service
Co	ntact Person: Dennis A. Mueck Title: Natural Resource Mar.
Te	lephone: (979) 532-0077 Exf. 3 E-mail: dennis. muect @ fx usda any
Ple	This is based on Whaten County of the Region L. ease answer the following questions using the list below of recommended agricultural water asservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes / No If Yes - Please list which ones you are currently using and for how many acres: 30,000 Lager leto way wider ground lighting. Multiple inlets
	If No – How many acres could benefit from each of the recommended strategies?
2.	Do you currently have any <u>unlined</u> canals? Yes V No If Yes – How many thousands of feet? <u>\$\square\$ (00, 600)</u> If Yes – Would you be interested in canal lining or pipe conversion? Yes <u>\$\square\$ No</u>
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
-	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$
	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list: Tail water Covers Systems, Fost mat. on Existing Carel systems, Inline flow
	ecovery Systems, Post migt on Existing Canal systems, Inline flow leters

Na	me of Agricultural Organization: ARTHUR A. PRIESMEYER + SONS					
	ntact Person: ARTHUR A. PRIESMEYER Title: PHRTNER					
	lephone: (979) 543-4293 E-mail:					
cot	case answer the following questions using the list below of recommended agricultural water is a servation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.					
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1					
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No					
	If No – How many acres could benefit from each of the recommended strategies?					
2.	Do you currently have any <u>unlined</u> canals? Yes \checkmark No If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? Yes \checkmark No					
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No Coult use sime assistance					
	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$					
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:					

Na	me of Agricultural Organization: Hd 5 Farms
Со	ntact Person: Stephen Heard Title: Partner / LANdownen
	lephone: (979) 479-5501 E-mail:
COI	ease answer the following questions using the list below of recommended agricultural water asservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy 1. Laser leveling + multiple inlets 2. Canal lining 3. Replacing canals with pipes 4. Improved seed varieties Unit Cost (\$) S109 per acre \$0.51 per foot \$0.51 per foot Canal lining - assumes 38 ac-ft water saved per canal mile. Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	strategies into your farming practices? YesNo
•	If Yes - Please list which ones you are currently using and for how many acres:
	If No – How many acres could benefit from each of the recommended strategies?
2.	Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? 10 1/2 1/2 miles If Yes – Would you be interested in canal lining or pipe conversion? Yes No
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
<u></u>	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$ 10,000. ** per year (canal linking or Pipe)
	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:
_	Presently constructing facilities to catch run off, and tailwater from rice fields and reuse in irrigation system
	reuse in irrigation system
	1. Il mat Law additional \$ 15,000 Per year for LASER Leve

Na	ame of A	gricultural Organization:	emeat J	- V.
		rson: Thomas Turner		itle: Partner
				ti7476 @ wenet net
co	nservatio	wer the following questions using on strategies and their projected to Vater Plan.	g the list below anit costs that w	of recommended agricultural water ere used in developing the Lavaca
		Water Conservation Strategy	Unit Cost (\$)	Assumptions for strategy unit costs:
	1	Laser leveling + multiple inlets	\$109 per acre	• <u>Laser leveling + multiple inlets</u> – assumes 1.4 ac-ft water saved per acre irrigated: & assumes
	2	Canal lining	\$0.51 per foot	strategy applicable to 70% of irrigated acreage.
	4	Replacing canals with pipes Improved seed varieties	-	Canal lining – assumes 38 ac-ft water saved per canal mile.
	mul	tiple inlets on all	1 fields (about 150 acres/year) about 150 acres/year) (about 10% of acres; e) commended strategies?
2.	If Yes-	currently have any <u>unlined</u> canals - How many thousands of feet?	10,000	
3.		of funds a primary reason for not i No	ncorporating wa	ter conservation farming practices?
	If Yes	- How much money could you co	ontribute to mak	ting improvements, if some type of
		ng funds were available? \$ <i>l)e</i> _ps		
1.	Are the	ere other water conservation mea	sures that you h	have implemented or would like to bove? Please list:
			,	W
	7 w	ould like to learn a	bout care	il lining.

Na	ame of Agricultural Organization: LAVACA COUNTY FARM BUREAU					
	ontact Person: DAVID WAGNER Title: PRESIDENT					
	lephone: (361) 594-3011 E-mail: dewagner & FRODICY. NET					
co	ease answer the following questions using the list below of recommended agricultural water inservation strategies and their projected unit costs that were used in developing the Lavaca egional Water Plan.					
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.					
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes i No					
•	If Yes - Please list which ones you are currently using and for how many acres:					
	Im PROVED SEED VARIETIES - I ASSUME YOU ARE					
	If No - How many acres could benefit from each of the recommended strategies?					
	7 1.512.7					
2.	Do you currently have any unlined canals? Yes No ? WE Dow'T use Canals					
	If Yes – How many thousands of feet?					
	If Yes – Would you be interested in canal lining or pipe conversion? Yes No					
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No there is very little unipliest Construction from direct quantum favored by the send of the property of the send of the s					
4	Are there other water conservation measures that you have implemented or would like to					
	implement into your farming practices that are not listed above? Please list:					
	Conacing building stock ponds.					

Na	me of A	gricultural Organization: Pin Oc	ak Farms II		
Co	ntact Per	rson: Jon L. Richards	T	tle: Partner	
Tel	ephone:	(713)208-9060	E-mail: _	jrichards a dodi.com	
cor	iservatio			of recommended agricultural water ere used in developing the Lavaca	
	1 2 3 4	Water Conservation Strategy Laser leveling + multiple inlets Canal lining Replacing canals with pipes Improved seed varieties	Unit Cost (\$) \$109 per acre \$0.51 per foot -	Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.	
1.	strategi	ou already incorporated any of es into your farming practices? - Please list which ones you are	YesN		
(1) Laser leveling - approximately 220 acres leveled to date (3) Approximately 200 acres can be watered without use of Ca If No - How many acres could benefit from each of the recommended strategies					
2.	<u>leve</u> Do you	thing and irrigation pip currently have any unlined canals - How many thousands of feet?	e · ? Yes_		
3.	If Ye s -	- Would you be interested in canal	l lining or pipe co	_	
	If Yes			ing improvements, if some type of	
4.		ent into your farming practices the	at are not listed a		
	No.	Laser leveling and s s all I am really in	undergiound interested in.	rrigation (pipe) I am unaware attor level.	
		of canal lining and	its conserv	ation level.	

Nam	e of Agricultural Organization: K+ L Farms
Cont	act Person: Lance Raun Title: general partner
Telep	phone: (979) 543 - 4245 E-mail:
conse	e answer the following questions using the list below of recommended agricultural water ervation strategies and their projected unit costs that were used in developing the Lavaca onal Water Plan.
	Water Conservation Strategy Unit Cost (S) Assumptions for strategy unit costs: Laser leveling + multiple inlets \$109 per acre Canal lining \$0.51 per foot Replacing canals with pipes \$100 per foot Canal lining \$100 per foot Canal lining \$100 per acre Canal lining \$100 per acre Canal lining - assumes 38 ac-ft water saved Canal lining - assumes 38 ac-ft water saved
	lave you already incorporated any of the recommended agricultural water conservation trategies into your farming practices? Yes No
: If	Yes - Please list which ones you are currently using and for how many acres: Laser Leveling - multiple rilets
If	No – How many acres could benefit from each of the recommended strategies?
	Yes – How many thousands of feet? 60K- 80,000 F+
If	Yes – Would you be interested in canal lining or pipe conversion? Yes No
	lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
I í	Yes – How much money could you contribute to making improvements, if some type of answer this with we have a form program natching funds were available?
	are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:
	I have stanted placing drep boses at the autility in place
<u> </u>	backfore cuts in the love. There are about 400 wich. I have
سلا	and new pipes and buildhards to require I am written in the const to
wit	in sociale relation

of Agricultural Organization: STUHRENBERS FARMS et Person: FILL, STUBE, OR MARVING Title: PARTNERS	
none: (361) 972-5212 E-mail: SFARMS & YKC. C	01
vation strategies and their projected unit costs that were used in developing the Lav	
2 Danksing appele with since	umes eage.
4 Improved seed varieties - Canal mile.	ea
• • • • • • • • • • • • • • • • • • • •	
Yes – Would you be interested in canal lining or pipe conversion? Yes No	
	es?
Yes - How much money could you contribute to making improvements, if some type	e of
atching funds were available? \$ 30 acres 5/00 acres 5/00	
ar	Laser leveling + multiple inlets

Na	ame of Agricultural Organization: HARRY MAURITZ FARMS						
	ontact Person: M.H. BROCK Title: TRUSTEE						
	lephone: (341) 771- 3321 E-mail:						
CO	ease answer the following questions using the list below of recommended agricultural water inservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.						
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated: & assumes strategy applicable to 70% of irrigated acreage. • Canal lining - assumes 38 ac-ft water saved per canal mile.						
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No						
	If Yes - Please list which ones you are currently using and for how many acres: # 250 ACRES # 4 250 ACRES If No - How many acres could benefit from each of the recommended strategies?						
2.	Do you currently have any <u>unlined</u> canals? Yes No						
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No						
	If Yes - How much money could you contribute to making improvements, if some type of						
	matching funds were available? \$						
4 .	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:						

Na	me of Agricultural Organization: Ferre-EDAIRI Tax
Co	ntact Person: Flyse (hg/cupkg Title: Sea-Theas
Te	lephone: (361) 596 7292 E-mail: Foure (a) teahisp. com
COI	ease answer the following questions using the list below of recommended agricultural water asservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs:
	Laser leveling + multiple inlets \$109 per acre Canal lining \$0.51 per foot Replacing canals with pipes - Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No
	If Yes - Please list which ones you are currently using and for how many acres:
	If No – How many acres could benefit from each of the recommended strategies? WE DO NO TRAINATION FROM UNDERCREANN WATER SUPPLY
2.	Do you currently have any unlined canals? Yes No
	If Yes – How many thousands of feet?
	If Yes – Would you be interested in canal lining or pipe conversion? Yes No
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
	If Yes - How much money could you contribute to making improvements, if some type of
	matching funds were available? \$
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:

Name of Agricultura	d Organization:	RAS Coase	errive Gr	cusion	
Contact Person:	MARVIN Lesika	T T	Title: CEA-A		
	782-3312		m- Lesikar	e Trang. ede	
	ollowing questions using the contract of the c				
1 Laser 2 3 Repl	Conservation Strategy leveling + multiple inlets Canal lining acing canals with pipes proved seed varieties	### Cost (\$) \$109 per acre \$0.51 per foot	• Laser leveling + mul ac-ft water saved per	strategy unit costs: tiple inlets – assumes 1.4 acre irrigated; & assumes 5.70% of irrigated acreage. tes 38 ac-ft water saved	
	dy incorporated any our farming practices?		ded agricultural w	vater conservation	
LASO Lind	If Yes - Please list which ones you are currently using and for how many acres: LASER Leveling - 807, Acres Linderground Dipeline - 1000 ac. Improved YARICLIES - all If No - How many acres could benefit from each of the recommended strategies?				
If Ye s – How ma	have any <u>unlined</u> cana any thousands of feet? _ you be interested in can	ALL	-	7 No	
3. Is lack of funds a Yes No	a primary reason for no	t incorporating wa	tter conservation fa	arming practices?	
	nuch money could you were available? \$			s, if some type of	
implement into y	water conservation me our farming practices t	hat are not listed a	above? Please list	:	
Possil	oil tui inel	ude - sp	orincles just	Strion	
c. 17 - b	additional flo	ation tilla	St TO Sern	nin ale sied	
without	mari blimat to	reains			

esponse to west from the ton to be so t

Na	ime of A	gricultural Organization:	mille Fo	· · · · · · · · · · · · · · · · · · ·
Co	ntact Pe	rson: Billy Ray Smith	ТТ	itle:
		(361) 771-3705	E-mail:	
CO	nservatio			of recommended agricultural water ere used in developing the Lavaca
	1 2 3 4	Water Conservation Strategy Laser leveling + multiple inlets Canal lining Replacing canals with pipes Improved seed varieties	Unit Cost (\$) \$109 per acre \$0.51 per foot -	Assumptions for strategy unit costs: • Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated: & assumes strategy applicable to 70% of irrigated acreage. • Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	strategi	es into your farming practices?	YesN	ed agricultural water conservation o and for how many acres:
	If No –	How many acres could benefit from	om each of the re	commended strategies?
2.	If Ye s -	currently have any unlined canals - How many thousands of feet? Would you be interested in cana		
3.		of funds a primary reason for not	incorporating wa	ter conservation farming practices?
		- How much money could you on grands were available?		ring improvements, if some type of
4.	implem	ent into your farming practices th	at are not listed a	
	at at	are not housed	rue run	, are beyond repair.
_	,			

Na	e of Agricultural Organization: Anthony & Amy Delik JV
Со	act Person: Arithmy Delik Title: Owner
	phone: (919) 759 3069 E-mail:
cor	se answer the following questions using the list below of recommended agricultural water ervation strategies and their projected unit costs that were used in developing the Lavaca onal Water Plan.
i	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costrates. 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costrates. Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated: & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.
	Have you already incorporated any of the recommended agricultural water conservation trategies into your farming practices? YesNo f Yes - Please list which ones you are currently using and for how many acres:
:	f No - How many acres could benefit from each of the recommended strategies?
2.	f Yes – How many thousands of feet? 2 m 125 f Yes – Would you be interested in canal lining or pipe conversion? Yes No
3.	s lack of funds a primary reason for not incorporating water conservation farming practices? Yes No No f Yes – How much money could you contribute to making improvements, if some type of
	matching funds were available? \$ 200 @ @ 50%
4.	Are there other water conservation measures that you have implemented or would like to mplement into your farming practices that are not listed above? Please list:
_	

Na	me of Ag	gricultural Organization:	-S Farms					
Co	ntact Per	son: Robert Schmic	<u></u>	itle: Partner				
Te	lephone:_	(979) 648-2441	E-mail:					
COI	nservatio		•	of recommended agricultural water vere used in developing the Lavaca				
		Water Conservation Strategy	Unit Cost (\$)	Assumptions for strategy unit costs:				
	1 2	Laser leveling + multiple inlets Canal lining	\$109 per acre \$0.51 per foot	Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes				
	3 4	Replacing canals with pipes Improved seed varieties	-	strategy applicable to 70% of irrigated acreage. Canal lining – assumes 38 ac-ft water saved per canal mile.				
1.	strategie	es into your farming practices? Please list which ones you are	Yes Ne currently using	led agricultural water conservation fo and for how many acres:				
	<u> </u>							
				commended strategies?				
2.	. Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? <u>2500 ff.</u> If Yes – Would you be interested in canal lining or pipe conversion? Yes No							
3.		of funds a primary reason for not No	t incorporating wa	ter conservation farming practices?				
		- How much money could you g funds were available? \$		king improvements, if some type of				
4.				have implemented or would like to above? Please list:				

Nai	me of Agricultural Organization:
	ntact Person: Frankie Letter Title: Partner
	ephone: (979) 543 5036 E-mail: None
con	ase answer the following questions using the list below of recommended agricultural water servation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy Unit Cost (\$) 1 Laser leveling + multiple inlets \$109 per acre 2 Canal lining \$0.51 per foot 3 Replacing canals with pipes - 4 Improved seed varieties - Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No
	LANd Leveling 750 across lindergue of irragation pige - 460 across If No - How many acres could benefit from each of the recommended strategies?
2.	Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? Z - 572 If Yes – Would you be interested in canal lining or pipe conversion? Yes No
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No
	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$ 4.000
4 .	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:

Na	me of Agricultural Organization: 151A - NRCS
	ntact Person: Levry Mikaka Title: Natural Resource 1
Tel	lephone: (311) 5716-1129 Ext. 3 E-mail: leroy. Millerla Qtx. Usda, 1
cor	rase answer the following questions using the list below of recommended agricultural water asservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
i	Water Conservation Strategy Unit Cost (\$)
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No If Yes - Please list which ones you are currently using and for how many acres:
•	If No – How many acres could benefit from each of the recommended strategies?
2.	Do you currently have any <u>unlined</u> canals? YesNo If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? YesNo
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No If Yes - How much money could you contribute to making improvements, if some type of
4. —	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:

Na	me of Agricultural Organization: <u>Steven Goetsch Farms</u>
Co	ntact Person: <u>Steven Geetsch</u> Title: <u>Partner</u>
Tel	ephone: (479) 543-5038
cor	ase answer the following questions using the list below of recommended agricultural water isservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: Laser leveling + multiple inlets \$109 per acre
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No
2.	Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? 4, C & FF. If Yes – Would you be interested in canal lining or pipe conversion? Yes No
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No If Yes - How much money could you contribute to making improvements, if some type of
	matching funds were available? \$ 10,000.00
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:

	me of Agricultural Organization: LOWELL FARMS WOLF RUNFARMS				
Co	Contact Person: LG: RNUN Title: Owner / Marage,				
Tel	ephone: (979) 543 3166 E-mail: Igraun & Sweet, net				
cor	ase answer the following questions using the list below of recommended agricultural water aservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.				
	Water Conservation Strategy Unit Cost (\$) Assumptions for strategy unit costs: 1				
1.	Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No				
,	If Yes - Please list which ones you are currently using and for how many acres: # 1 - 2,000 acres # 3 - Teo acres				
	If No – How many acres could benefit from each of the recommended strategies?				
	#1- 500 nover mutyle inlety				
	#2 - 1500 ORW.				
2.	Do you currently have any unlined canals? Yes \(\text{No}\)				
	If Yes - How many thousands of feet? 44,000				
	If Yes - Would you be interested in canal lining or pipe conversion? Yes No				
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No				
	If Yes - How much money could you contribute to making improvements, if some type of				
	matching funds were available? \$ 20,000				
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:				

†
l water Lavaca
armes 1.4 assumes di acreage. assured
tices?
like to

Name of Agricultural Organization: Ag	ppling Farms				
Contact Person: W. H. Appling	T	itle: <u>Manager</u>			
Telephone: (979) 543-4301 E-mail: Aplngfrm@wcnet.net					
Please answer the following questions using conservation strategies and their projected Regional Water Plan.					
Water Conservation Strategy 1 Laser leveling + multiple inlets 2 Canal lining 3 Replacing canals with pipes 4 Improved seed varieties 1. Have you already incorporated any of	Unit Cost (\$) \$109 per acre \$0.51 per foot	Assumptions for strategy unit costs: Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage. Canal lining - assumes 38 ac-ft water saved per canal mile.			
If Yes - Please list which ones you are Replaced canals with undergroun	If Yes - Please list which ones you are currently using and for how many acres: Replaced canals with underground pipe and land leveled. If No - How many acres could benefit from each of the recommended strategies? around 900				
2. Do you currently have any <u>unlined</u> canals If Yes – How many thousands of feet?	2000 about				
 3. Is lack of funds a primary reason for not Yes X No Yes Yes How much money could you omatching funds were available? 	contribute to mak	king improvements, if some type of			
4. Are there other water conservation measurement into your farming practices the Yes, hold all waste water and co	nat are not listed a	above? Please list:			

Name of A	Agricultura	al Organizatio	n:	Moral.	< 5	fa,	rus		
Contact P	erson:	Ronald	Gate	5	Title:		AWN.	<	
				E-mail					
conservati	ion strateg Water Plan	ies and their	projected i	g the list belounit costs that	were	used i	n develo	ping the L	avaca
1 · 2 · 3 · 4	Laser Repl	r Conservation leveling + multi Canal lining acing canals wit proved seed var	ple inlets th pipes	Unit Cost (\$ \$109 per acr \$0.51 per for	ot •	Laser leve ac-ft water strategy ap	ling + multiple r saved per ac pplicable to 70 ng - assumes	ategy unit costs le inlets – assum re irrigated; & as 0% of irrigated a 38 ac-ft water sa	es 1.4 ssumes creage.
If Yes	gies into your Please I er Leu acing	our farming prolist which one elips of the canals	ractices? es you are $M_{n/f}$,	the recomme Yes currently usin	No_	for ho	w many	acres:	
If Ye s	– How ma	any thousands	of feet?	? Yes		No_		No_	
	of funds a		son for not i	ncorporating v	water c	conserv	ation fari	ming practi	ces?
				ontribute to n		impro	vements,	if some ty	pe of
				asures that you		_			

Νε	ne of Agricultural Organization: BMB Investments, Ltd.	_
Co	tact Person: William H. Borchers Title: Partner	_
Te	ephone: (830) 609-0918 E-mail:	
CO	ise answer the following questions using the list below of recommended agricultural water servation strategies and their projected unit costs that were used in developing the Lavaca ional Water Plan.	
1.	Water Conservation Strategy Unit Cost (\$)	
	strategies into your farming practices? Yes No X Not as far as known contact person If Yes - Please list which ones you are currently using and for how many acres:	
	If No – How many acres could benefit from each of the recommended strategies? Unknown	
2.	Do you currently have any <u>unlined</u> canals? Yes No_X (Not in use) If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? Yes No_X	
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No_X	
	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$_Unknown	
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:	
_ <u>P</u>	eventing erosion	
<u></u> .		

Na	me of Agricultural Organization: Frank Zboril 4 Sons		
	ntact Person: Floyd Zboril & Frank Zberil III Title: Partners		
	ephone: (979) 543-9372 E-mail:		
Ple cor	ase answer the following questions using the list below of recommended agricultural water aservation strategies and their projected unit costs that were used in developing the Lavaca gional Water Plan.		
	Water Conservation Strategy Unit Cost (\$)		
1. Have you already incorporated any of the recommended agricultural water consensurategies into your farming practices? Yes No If Yes - Please list which ones you are currently using and for how many acres: Accept leveling, Replacing cands with pipes Improved Seed warieties If No - How many acres could benefit from each of the recommended strategies?			
2.	Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? Yes No		
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No		
	If Yes – How much money could you contribute to making improvements, if some type of matching funds were available? \$ \(\Delta \text{P} \)		
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:		

Region P Agricultural Water Infrastructurac Emancing Sur RECEIVED

		RTON, TEX	AS 77488- 3	MAR 28 2002	
Na	ame of Agricultural Organization:	MHARTON CO. FAI	RM SERVICE AGENCY	WHARTON FS	
Со	ontact Person: John W Willi	Ams RTON. H	EXAS TYASE TY	recutive Director	
Te	lephone: (979) 552-0567		•	vol. abou. xt @ em	
COI	ease answer the following questions unservation strategies and their projecting in a large result of the strategies and their projections.	_	~		
	Water Conservation Strategy	Unit Cost (\$)	Assumptions for str	ategy unit costs:	
	1 Laser leveling + multiple inlets		Laser leveling + multiple ac-ft water saved per act		
	2 Canal lining	\$0.51 per foot	strategy applicable to 70		
	3 Replacing canals with pipes 4 Improved seed varieties	\$8.52 per foot	Canal lining – assumes per canal mile.	38 ac-ft water saved	
If Yes - Please list which ones you are currently using and for how many acres: If No - How many acres could benefit from each of the recommended strategies?					
2.	Do you currently have any <u>unlined</u> canals? Yes No If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? Yes No				
3.	Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No				
7	If Yes - How much money could you contribute to making improvements, if some type of				
	matching funds were available? \$				
4.	Are there other water conservation measures that you have implemented or would like to implement into your farming practices that are not listed above? Please list:				
A					

Name of Agricultural Organization: 人。bャル と	Deve & from			
Contact Person:	Title:			
Telephone: () I do NUT in 94	mail:			
Please answer the following questions using the list conservation strategies and their projected unit costs Regional Water Plan.				
Water Conservation Strategy Laser leveling + multiple inlets Canal lining Replacing canals with pipes Improved seed varieties Unit Co \$109 pt \$0.51 pt \$8.52 pt 4 Improved seed varieties	er acre er foot • Laser leveling + multiple inlets - assumes 1.4 ac-ft water saved per acre irrigated; & assumes strategy applicable to 70% of irrigated acreage.			
Have you already incorporated any of the recommended agricultural water conservation strategies into your farming practices? Yes No If Yes - Please list which ones you are currently using and for how many acres:				
If No – How many acres could benefit from each o	f the recommended strategies?			
Do you currently have any <u>unlined</u> canals? YesNo If Yes – How many thousands of feet? If Yes – Would you be interested in canal lining or pipe conversion? Yes No				
Is lack of funds a primary reason for not incorporating water conservation farming practices? Yes No				
If Yes – How much money could you contribute matching funds were available? \$	• • • • • • • • • • • • • • • • • • • •			
4. Are there other water conservation measures tha implement into your farming practices that are not				