

2002-483-428 A— FINAL REPORT

Infrastructure Financing Report Texas Water Plan

Submitted by the Panhandle Water Planning Group
(Region A)



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Table of Contents

| | |
|--|----|
| Introduction | 1 |
| Methodology | 1 |
| Surveys | 1 |
| County Other Aggregate Uses | 2 |
| Policy Response – Financing | 2 |
| Policy Response – Irrigation | 2 |
| Findings | 3 |
| County Aggregate Water Users | 5 |
| Policy Response Statement | 7 |
| Financing | 7 |
| Irrigation | 8 |
| Conclusion | 9 |
| Attachment A – Survey Transmittal | 10 |
| Attachment B – Returned Surveys | 17 |
| Attachment C – Follow-up Telephone Log | 39 |
| Attachment D – TWDB Comments & Responses | 41 |
| Attachment E – IFR Template – Printout Version – MS Excel, Separate Cover | 45 |

May 30, 2002

Introduction

The Panhandle Water Planning Group, in compliance with the requirements of Senate Bill 2 (2001), has prepared a draft Infrastructure Finance Report for submission to the Texas Water Development Board. The report was prepared by the Panhandle Regional Planning Commission acting as the designated political subdivision and was approved by the Panhandle Water Planning Group (PWPG) in a duly posted meeting on April 16, 2002. The report was reviewed and approved in its final format in a duly posted meeting on May 30, 2002 following review and incorporation of Texas Water Development Board staff costs. The PWPG appreciates the opportunity to present this report as the final deliverable product under the required Infrastructure Finance Report contract.

The Panhandle Water Planning Group is the regional water planning group established pursuant to Senate Bill 1 (1997). This Group consists of 21 voting members and 6 non-voting members for a total membership of 26. The regional water planning area of responsibility for this Group is Region A, or the Panhandle Water Planning Area. Region A consists of 21 counties in the Texas Panhandle. Two major river basins cover the area, the Canadian in the northern portion of the area and the Red in the southern portion. The primary water user in the region is irrigated agriculture, which accounts for approximately 89% of all water consumed. Municipal use is the second largest water user category at 5% and livestock use comes in third with approximately 3% of the total water use. For the base year of 2000, total projected water use in the region was approximately 1.7 million acre-feet.

Amarillo is the largest population center in the region, followed by the cities of Pampa, Borger, Dumas, Perryton, and Dalhart. Total regional population according to the 2000 census is 355,832. Percent population growth in the region for the period from 1990 to 2000 is approximately 10%. Projections in the original Regional Water Plan show an estimated population in the region of 552,072 by the year 2050 which represents a potential population growth of 55% over the next 50 years.

Methodology

Surveys

The Panhandle Regional Planning Commission conducted the required surveys for the Infrastructure Finance Report in accordance with requirements of TWDB Contract #2002-483-428. Each municipal entity with an identified need and subsequent water management strategy was directly surveyed. The survey included the required survey sheet as prepared by the Texas Water Development Board as well as excerpts from approved Regional Water Plan. Each survey was followed up with a minimum of two telephone calls to the responsible party to ensure a high survey response rate. In addition to the municipal entities with identified needs, surveys were sent to the Judges of the four

counties with identified County-Other needs. Again, these surveys were followed up with a minimum of two telephone calls to ensure a high survey response rate.

In accordance with conversations between the PRPC and TWDB staff, and after review of the IFR requirements, non-governmental entities with needs such as those in the water use groups of mining, manufacturing, irrigation, steam-electric power generation, and livestock were not surveyed. This appears to be the appropriate response as the entities or individuals with needs in these water use groups do not represent political subdivisions or public water supply systems. As private entities or individuals, implementation or financing of water management strategies in these areas is not within the realm of this task. Although the County Judges were surveyed in those counties with County Other needs, those needs will most often fit into this category as well. This is due to the fact that in the PWPA, there are no counties that currently provide water for or operate public water supply systems. Most county-other needs in the PWPA will be met through private wells or small water supply systems that are either non-profit or investor owned. In addition, most of these systems fall well under the planning minimums in terms of customers served or total volumes of water supplied.

County Other Aggregate Uses

To address the user groups of Mining, Manufacturing, Steam Electric Power Generation, Irrigation, and Livestock, the Panhandle Water Planning Group developed summary statements on a per-category basis. These statements are included in the report and describe the probable funding sources for each user category.

Policy Response – Financing

The second required element of the Infrastructure Finance Report is the development of a policy statement that answers the question “What is the proper role(s) for the State in financing water supply projects identified in the approved regional water plans?” To develop the required response, the PWPG appointed a committee to formulate a preliminary response for the Group’s use and discussion. This committee met on March 21, 2002 to prepare the preliminary response. The PWPG considered, discussed and modified the preliminary response in open session on April 16, 2002. The result of this deliberation produced the final response as listed under the Policy Response section on page 7 of this report.

Policy Response – Irrigation

In addition to the required survey and the policy response statement on the proper role for the State in financing water supply projects, the PWPG chose to also develop a policy question and response that directly dealt with the implementation of approved irrigation demand reduction strategies. To accomplish this, the PWPG charged the standing Agricultural Demands and Projections Committee with developing both a preliminary question and response. This committee met on March 12, 2002 and formulated the preliminary question and response. The PWPG reviewed, discussed and adopted a final Policy Response for Agriculture at the March 21, 2002 meeting. The final response to this question is on page 8 of this report.

Findings

Surveys

The required surveys for the Infrastructure Finance Report yielded a 74 percent response rate for the municipal surveys and a 75% response rate for the county surveys. The following table summarizes the results of the surveys for those entities that responded:

| City | Capital Cost | Amount Entity Can Pay w/ revenues | Amount Entity Can Pay w/ State Participation | Amount Entity Can Not Pay |
|---------------|----------------------|-----------------------------------|--|---------------------------|
| Amarillo | \$154,829,940 | \$154,829,940 | N/A | N/A |
| Amarillo | \$208,124,865 | \$154,829,940 | \$208,124,865 | \$53,294,925 |
| Canadian | \$2,467,508 | \$980,000 | \$980,000 | \$1,487,508 |
| Canyon | \$2,728,454 | \$550,000 | \$550,000 | \$2,178,454 |
| Claude | \$1,585,990 | \$504,000 | \$504,000 | \$1,081,990 |
| Groom | \$299,207 | \$50,000 | \$60,000 | \$240,000 |
| Gruver | \$768,821 | \$76,882 | \$76,882 | \$691,939 |
| Gruver | \$1,872,376 | \$93,618 | \$93,618 | \$1,778,758 |
| McLean | \$1,277,140 | \$0 | \$0 | \$0 |
| Panhandle | \$888,170 | \$0 | \$90,000 | \$798,170 |
| Perryton | \$5,462,979 | \$1,500,000 | \$2,000,000 | \$3,000,000 |
| Shamrock | \$3,177,861 | \$1,600,000 | \$1,600,000 | \$1,577,861 |
| Sunray | \$2,587,114 | \$600,000 | \$600,000 | \$1,987,114 |
| Sunray | \$4,680,941 | \$600,000 | \$600,000 | \$4,080,941 |
| Wheeler | \$3,700,590 | \$100,000 | \$100,000 | \$3,600,590 |
| White Deer | \$714,206 | \$100,000 | \$100,000 | \$614,206 |
| TOTALS | \$395,166,162 | \$316,414,380 | \$215,479,365 | \$76,412,456 |

As evidenced by this table, it appears as though approximately 80% of the capital cost necessary for the water management strategies listed above will be borne by the local entities. When considering this, it must be acknowledged that the City of Amarillo's ability to fully fund their first management strategy and to predominantly fund their second management strategy skews the evaluation somewhat. Discounting Amarillo's ability fund their projects, the smaller cities in the region show the ability to only fund 21% of the necessary capital costs through revenues alone ((Total Pay w/ revenues - Amarillo) / (Total Cap Costs - 2 Amarillo Strategies)). As a second consideration, please note that the City of Amarillo is shown with two separate capital costs in the above tabulation and the attached template. The two strategies that created the separate costs are in all aspects one strategy, with two different levels of implementation. The City of Amarillo will in reality only implement one of these strategies, which will change the results listed above. The table on the next page provides a *theoretical* example of how the municipal IFR would look with only the larger of the two Amarillo projects included.

Theoretical Table – One Amarillo Strategy Only

| City | Capital Cost | Amount Entity Can Pay w/ revenues | Amount Entity Can Pay w/ State Participation | Amount Entity Can Not Pay |
|---------------|----------------------|-----------------------------------|--|---------------------------|
| Amarillo | \$208,124,865 | \$154,829,940 | \$208,124,865 | \$53,294,925 |
| Canadian | \$2,467,508 | \$980,000 | \$980,000 | \$1,487,508 |
| Canyon | \$2,728,454 | \$550,000 | \$550,000 | \$2,178,454 |
| Claude | \$1,585,990 | \$504,000 | \$504,000 | \$1,081,990 |
| Groom | \$299,207 | \$50,000 | \$60,000 | \$240,000 |
| Gruver | \$768,821 | \$76,882 | \$76,882 | \$691,939 |
| Gruver | \$1,872,376 | \$93,618 | \$93,618 | \$1,778,758 |
| McLean | \$1,277,140 | \$0 | \$0 | \$1,277,140 |
| Panhandle | \$888,170 | \$0 | \$90,000 | \$798,170 |
| Perryton | \$5,462,979 | \$1,500,000 | \$2,000,000 | \$3,000,000 |
| Shamrock | \$3,177,861 | \$1,600,000 | \$1,600,000 | \$1,577,861 |
| Sunray | \$2,587,114 | \$600,000 | \$600,000 | \$1,987,114 |
| Sunray | \$4,680,941 | \$600,000 | \$600,000 | \$4,080,941 |
| Wheeler | \$3,700,590 | \$100,000 | \$100,000 | \$3,600,590 |
| White Deer | \$714,206 | \$100,000 | \$100,000 | \$614,206 |
| TOTALS | \$240,336,222 | \$161,584,440 | \$215,479,365 | \$77,689,596 |

Using the above table, it appears as though approximately 67% of the total capital costs necessary to implement the approved water management strategies can be borne with local revenues. To ensure that future needs can adequately be met, the table was developed using the larger of the two approved strategies for the city of Amarillo. Again, a note of caution is necessary that with the City of Amarillo removed from the calculation, only 21% of the necessary capital costs will be borne with local revenues.

Two additional items bear discussion under the municipal surveys. First, the need shown for Lake Tanglewood in the Regional Water Plan and the IFR template is proposed to be met entirely with local funds as the public water supply system is corporately owned and is not a political subdivision. At their request, no data is entered for this water management strategy. Second, the City of Lefors shows a need in the approved Regional Water Plan but is not listed on the above table. This is due to the fact that since the completion of the plan, the City of Lefors has completed their identified water management strategy and no longer has a potential need.

Four of the four county surveys for county-other needs were returned by the respective County Judges. No summary table is included in this report due to the fact that none of the respondents indicated that they had any financial capacity to implement county-other water management strategies.

County Aggregated water Uses

County Aggregate Water Users with needs in the Region A Water Planning Area consist of irrigated agriculture, livestock, mining, manufacturing, and steam electric power generation. Irrigated agriculture is by far the largest category of water user groups with identified needs in the region. To address the needs of these user groups and ensure their inclusion in the report, the PWPG followed the methodology outlined in Exhibit B, which states that “for the water user groups based on county aggregates, such as livestock or mining, where no political subdivision is responsible for the provision of water supplies, no survey will be necessary.” In these cases, the PWPG is including summary discussions on possible funding mechanisms. Listed below, please find the results of these discussions on a per category basis:

Manufacturing:

As manufacturing entities are typically for-profit entities, no identified means of funding from public sources were discussed. Probable funding mechanisms for entities in this category include commercial loans and other private market debt instruments. For those needs requiring a lower capitalization cost, it is presumed that the responsible entities will meet those needs through proper long-range planning and budgeting.

Mining:

Mining activities in this Region are typically sand and gravel quarries as well as some oil and gas operations (i.e.: water flood). The identified need for this category is relatively small and is again composed of for-profit entities. Typical funding mechanisms for affected entities include commercial loans and other private market debt instruments. For those needs that are relatively minor, operational adjustments or development of existing yet unutilized rights may suffice to meet the needs.

Steam Electric Power Generation:

Steam Electric Power Generation in this region is conducted in two counties. To meet the needs, it is assumed that the owner of the generation facility will privately fund the needed projects. Direct reuse has been proposed for a portion of the need and additional water rights purchase will address the remainder. As with the mining and manufacturing categories, private market debt instruments, long-range planning and forward budgeting are the most likely methods to fund the needed improvements.

Livestock:

Livestock needs in the Region A planning area can be comprised of both individual owner operations and corporate operations as in the case of larger confined animal feeding operations. For corporate operations, the funding mechanisms identified above will most likely be used to address the needs. For individual operations, other options such as the NRCS – Cost Share programs may be available to assist in partially funding needed water management strategies. Direct individual funding through local banks will also be appropriate. Additional cost-share type programs may be available and if so, they should be appropriately utilized.

Irrigation:

Irrigation needs account for the single largest category of need for aggregate water users. In most cases, these needs are directly applicable to individually owned and operated farming operations. As noted in the previous discussion under the *Introduction* section, irrigation is by far the single largest water user group in the entire region. Improvements in this area will produce the greatest overall benefit to the total water resource picture of the region. In terms of funding, several options are available. Direct individual funding through local banks is one option, as are the NRCS-Cost Share program and the programs offered through local groundwater conservation districts for low-interest irrigation improvement loans.

To address the magnitude of this need, the PWPG chose to develop a policy statement targeted specifically towards the implementation of irrigation demand reduction strategies. This policy statement is included on Page 8 of this report and should be reviewed for further details. The general consensus regarding this need is that existing programs that may be available to fund irrigation demand reduction strategies should be maintained, and if necessary and appropriate, additional programs added.

Policy Response Statement

Governmental Entities

The Panhandle Water Planning Group, at their April 16, 2002 meeting, developed a pair of responses to the following question:

“What is the proper role(s) for the State in financing water supply projects identified in the approved regional water plans?”

The following response is proposed:

Regional water planning has proven to be an informative process of assessing and quantifying the water needs for the region and the state. Although many needs have been identified, it still remains the water provider’s responsibility to plan and finance those improvements necessary to meet their future water demands. In order to finance these anticipated needs, the water suppliers should adjust their rates accordingly.

The State should have two roles concerning water supply projects:

First, it should be a facilitator. In this role, it should help bring various water suppliers together to solve common problems. It should eliminate or reduce various tedious and time-consuming requirements that result in very little enhancement of the project.

Second, the State should develop a loan guarantee fund for those occasions when water suppliers experience conditions beyond the scope of prudent planning. Failure to plan or poor planning should not be an excuse for fund eligibility. Revenues for this program should come from a tax on bottled water and a percentage of revenue from the state lottery. A second possible source of revenue is a fee that could be assessed against retail water accounts dedicated to funding water supply projects. In addition, presently available financing programs provided by the State should be maintained.

One area where current state financial assistance programs could be improved which would benefit the Panhandle area is the State Participation Program. This program has often been used to assure that surface water reservoirs are constructed to the optimum capacity, when the local sponsor can not afford to do so as part of the initial construction. However, Texas Water Development Board personnel have advised that it can be used to assist with the acquisition of groundwater supplies only for the purpose of providing for future *increased capacity*, not to reserve groundwater supplies for future use. In addition, the project must include construction of a supply pipeline.

There are currently many water users in the Panhandle which will face shortages in the future. Groundwater resources to meet those long-range needs are subject to export or exhaustion without regard to future needs of the region. Expanded and less restrictive use of the State Participation Program could make funding available to reserve those resources which will be needed in the future while satisfying the demand of the water owners for economic benefit.

Irrigation Demand Reduction Strategies

The Panhandle Water Planning Group has long recognized that irrigation water use in this region is much greater than all other use categories combined. The Group has also acknowledged that the Infrastructure Finance Report is directed primarily at municipal water needs. When the original application to conduct the Infrastructure Finance Report was submitted, the Planning Group opted to add an additional requirement in order to try and address the implementation of irrigation demand reduction strategies. As irrigation is the largest water use, any success in this area will have a much greater impact on the overall water resources of the region.

To address this issue, the Agricultural Committee was charged with discussing the issue and attempting to develop an initial policy statement regarding irrigation demand reduction strategies. The Committee has subsequently developed both a policy question and an answer regarding irrigation water use.

The question reads as follows:

“Irrigation is the largest water user group in the state. What financial role should the State assume in enabling and assisting the implementation of approved Irrigation Demand Reduction Strategies?”

The proposed answer developed by the Committee is:

“The State Legislature should fund existing agencies and subdivisions of the state charged with the conservation and preservation of water to enable the implementation of approved irrigation demand reduction strategies such as those identified in Sections 5.5 and 6.2 of the state approved Panhandle Regional Water Plan.”

Conclusion

Overall response to the Infrastructure Finance Report project has been favorable throughout the region. As a Regional Water Planning Group, the PWPG has several comments to provide for the Board's consideration in this matter. The first comment is that it seems as though the county-other category is very difficult to quantify, both in terms of solutions and in terms of finding an appropriate political subdivision to address the issue. Counties in the planning region do not provide water supplies or operate public water supply systems. Surveying these entities for the county-other needs is a good starting point, but it did not yield positive, quantifiable results during the preparation of this report. We trust that when the IFR reports are re-considered in Round II regional water planning, several of the county-other needs may be more accurately identified due to the changes in the rules lowering the planning requirements to entities of 500 or more population. A second comment involves the survey instruments themselves. Many of the respondents expressed confusion over the questions regarding how much could an entity afford with system and tax revenues and how much could an entity afford with the State Participation Program. Most entities considered the answers to be equal. One possible clarification that might be helpful would be to ask what the approximate annual debt service capacity of the entity would be at a certain point in time (keyed to the implementation date of the strategy).

A third comment for consideration is the magnitude of irrigation use within several of the regions. Irrigation accounts for approximately 89% of the total water consumed within the Panhandle Water Planning Area. The PWPG recognizes that it was not the intent of Senate Bill 2 or the Infrastructure Finance Report to account for the capital cost needs of this use sector. However, it must be acknowledged that reduction of demands in this sector will have the most positive benefit to the overall water use scheme of this region. As an example, a 1% total reduction in the irrigation demand produces a savings of approximately 15,229 acre-feet per year within the region. This 1% savings equals approximately 17% of the annual municipal use. The Panhandle Water Planning Group has developed irrigation demand reduction strategies which, if implemented, could have a very positive effect on the overall water use scheme within the region. Acknowledging that the Infrastructure Finance Report is not the appropriate vehicle to address these considerations, we would ask the Board's favorable consideration of future methods to address the funding and implementation of these strategies.

Included as attachments to this draft report please find the following supporting documentation:

- Attachment A - Copy of sample survey transmittal
- Attachment B - Copies of returned surveys
- Attachment C - Copy of telephone log showing follow-up contact attempts
- Attachment D - TWDB Comments & Responses
- Attachment E - Electronic Copy of IFR survey template with appropriate data Entered (separate cover)

Attachment A
Sample Survey Transmittal

PANHANDLE WATER PLANNING GROUP

P.O. Box 9257
Phone: 806-372-3381

Amarillo, Texas 79105
Fax: 806-373-3268

C.E. Williams
Chairman
Water Districts

Judge Vernon Cook
Vice-Chairman
Counties

Dan Coffey, P.E.
Secretary
Municipalities

Dr. Nolan Clark, P.E.
Executive Committee
Environmental

John Williams, P.E.
Executive Committee
Water Districts

Dean Looper
Public

Richard Bowers
Water Districts

Charles Cooke
Water Utilities

Jim Derington
River Districts

B.A. Doneison
Agriculture

Rusty Gilmore
Small Business

Bill Hallerberg
Industries

Gale Henslee
Elec. Generating Utility

Grady Skaggs
Environmental

Bobbie Kidd
Water Districts

David Landis
Municipalities

Denise Jett
Industries

Inge Brady
Environmental

Frank Simms
Agriculture

Janet Tregellas
Agriculture

Rudie Tate
Agriculture

Dr. John Sweeten
Higher Education

January 21, 2002

Courtney Sharp, City Manager
City of Canyon
301 16th Street
Canyon, TX 79015-2899

RE: Infrastructure Financing Report

Dear Mr. Sharp:

The Panhandle Water Planning Group is beginning the development of a document known as an Infrastructure Finance Report. This report is required by Senate Bill 2 (2001), and is designed to provide information to the State on how various water providers will attempt to finance necessary water improvements over the next 50 years and how much financial assistance the State may be expected to provide for water system improvements that can not be funded entirely on the local level. You are receiving this letter and the attached survey because your entity was identified in the recently completed Panhandle Regional Water Plan as needing additional development of water supplies at some point in the next 50 years.

To assist you in completing this survey, I am enclosing the following documents: Water Infrastructure Financing Survey (3 pages); excerpt from Chapter 5, Panhandle Regional Water Plan (1 page); and an excerpt from Appendix N, Panhandle Regional Water Plan (1 page). The two excerpts contain the detailed information regarding your entity and the identified water management strategy(ies) and costs to meet potential water supply needs in the future. Please remember that this is a survey only, and is not committing your entity to any specific future acts. The purpose is to develop a state-wide picture of how local entities will fund water improvements in the future and how much available funding the State might need to assist local entities in meeting water needs.

To comply with the requirements of Senate Bill 2 and to stay within our contractual timelines, we are requesting that the survey be completed and returned by February 8, 2002. A self-addressed and stamped envelope is included for your convenience. If you would like assistance in completing this survey or have any questions on the water management strategy(ies) and costs for your entity, please do not hesitate to contact me directly.

Thank you for your assistance and attention to this survey. If I can help in any way, please feel free to contact me at 806/372-3381.

Sincerely,



Jarrett Atkinson
Regional Water Planning Director

ENC: Survey, Chapter 5 excerpt, Appendix N excerpt

PANHANDLE WATER PLANNING GROUP

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WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: Panhandle Water Planning Area - Region A

Name of Political Subdivision: Panhandle Regional Planning Commission

Contact Person: Jarrett Atkinson Title: LGS Director

Telephone: 806/372-3381 E-mail: jatkinson@prpc.cog.tx.us

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

Senate Bill 2 (77th Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by February 8, 2002 to:

PRPC
ATTN: Jarrett Atkinson
PO Box 9257
Amarillo, TX 79105
(806) 372-3381 facsimile
E-mail address: jatkinson@prpc.cog.tx.us

If you have any questions regarding this survey, please contact:
Jarrett Atkinson Telephone Number 806/372-3381

PANHANDLE WATER PLANNING GROUP

P.O. Box 9257
Phone: 806-372-3381

Amarillo, Texas 79105
Fax: 806-373-3268

WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Canyon

Water Management Strategy Name: Develop new groundwater rights

Capital Cost: \$2,728,454

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ _____.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ _____.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ _____.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

PANHANDLE WATER PLANNING GROUP

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Recommended Water Management Strategies for City of Canyon

| Political Subdivision | Strategy | Strategy Implementation Date | Total Capital Cost |
|-----------------------|--------------------------------|------------------------------|--------------------|
| City of Canyon | Develop new groundwater rights | 2040 | \$2,728,454 |

deplete the storage in the aquifer. To prolong the life of this water resource, other users may need to reduce their demands.

Impact on Agriculture and Natural Resources

This strategy may reduce the irrigated acreage for farming as additional water rights acreage is purchased. This acreage could be used for dry land farming if needed, but may require crop changes.

Other Relevant Factors

Since there was little available information on the groundwater rights for Vega, there may be sufficient existing supply through the planning period. The supply from Deaf Smith County is from the Llano Estacado Region (Region O), which is a potential source of interregional conflict. However, that is unlikely since the City already obtains groundwater from this county.

5.4.12 Canyon

The city of Canyon is located in Randall County roughly ten miles south of Amarillo. Its water supply is a combination of groundwater from the Ogallala and purchased water from the city of Amarillo. The currently developed supply will last the City until 2040. At this time, the City will need to develop the groundwater rights it already owns. Three more wells will need to be installed to meet the demands until 2050 (100 to 770 acre-feet/year). As an alternative, the City may also be able to purchase additional water from the city of Amarillo. The City's needs can be met with the existing water supply contract in place with the city of Amarillo.

Quantity, Reliability and Cost

There is sufficient groundwater to provide the City's needs until 2050. The reliability is moderate. The cost would be \$313 per acre-foot (\$0.96/1000 gallons).

Environmental Factors

The installation of new wells and a new transmission system has an impact on the environment. Routing the pipeline around environmentally sensitive areas and following existing roads when possible can lessen the impact and a detailed review should be performed to identify potential sensitive areas.

Impact on Water Resources and Other Management Strategies

The increased demands on the Ogallala will continue to deplete the storage in the aquifer. To prolong the life of this water resource, other users may need to reduce their demands.

Impact on Agriculture and Natural Resources

This strategy may reduce the irrigated acreage for farming as additional water rights acreage is purchased. This acreage could be used for dry land farming if needed, but may require crop changes.

Other Relevant Factors

There are no other relevant factors.

WUGNAME: Canyon
 STRATEGY: Develop new groundwater rights
 AMOUNT (ac-ft/yr): 772

| Construction Costs | Cost |
|--|--------------------|
| Water Wells (3) | \$189,900 |
| Connection to Existing System | \$250,000 |
| Connection to New System | \$200,000 |
| 10-in Pipeline to Canyon | \$739,200 |
| Pumpstation, building and appurtenances | \$519,200 |
| Ground Storage (.5 MG) | \$156,000 |
| <i>Subtotal - Construction Costs</i> | <i>\$2,054,300</i> |
| Engineering and Contingencies | \$616,290 |
| Mitigation and Permitting | |
| ROW Land Acquisition | |
| Water Rights Purchase | |
| <i>Subtotal</i> | <i>\$2,670,590</i> |
| Interest During Construction | \$57,864 |
| Total Capital Project Costs | \$2,728,454 |
| Annual Costs | |
| Debt Service - Total Capital | \$198,219 |
| Operation and Maintenance | |
| Pipelines | \$7,592 |
| Pumpstations/Wells | \$17,728 |
| Surface Water Treatment | \$0 |
| Pumping Costs | \$17,933 |
| Total Annual Costs | \$241,472 |
| Annual Cost (\$ per acre-foot) | \$312.79 |
| Annual Cost (\$ per 1000 gallons) | \$0.96 |

**Attachment B
Returned Surveys**

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Amarillo

Water Management Strategy Name: Develop existing rights (city & existing customer needs)

Capital Cost: ^{208,129,865}
~~\$150,404,280~~ (city & existing customer needs)

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 159,829,940.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 208,129,865.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 53,294,925.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

STATE REVOLVING LOAN PROGRAM
COUNTY PARTICIPATION
OTHER MUNICIPAL PARTICIPATION
PRIVATE PARTICIPATION

PANHANDLE WATER PLANNING GROUP

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WATER INFRASTRUCTURE FINANCING SURVEY

PRPC
FEB 06 2002

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Amarillo

Water Management Strategy Name: Develop existing groundwater rights

Capital Cost: \$154,829,940 (City needs only)

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 154,829,940.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ _____.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ _____.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

PANHANDLE WATER PLANNING GROUP

JAN 30 2002

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Canadian

Water Management Strategy Name: Develop new water rights

Capital Cost: \$2,467,508

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 980,000.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

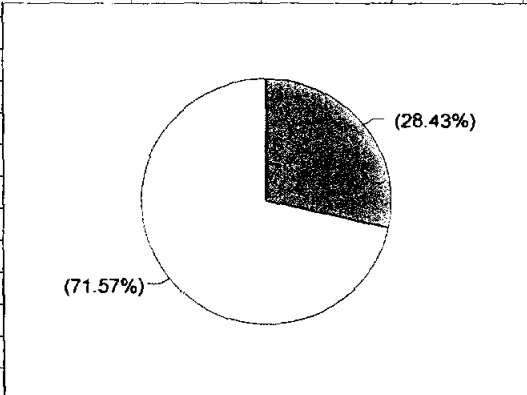
The political subdivision can afford to pay \$ 980,000.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 1,487,508.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) See attachment

| A | A | B | C | D | E | F | G | H | I | J | |
|----|----------------|----------|---------------|--|---|---|---|---|---|---|-----|
| 1 | | | | WATER FINANCING 2002 | | | | | | | |
| 2 | | | | DEVELOP WATER RIGHTS AND WELL FIELD | | | | | | | xxx |
| 3 | FY END | | AMOUNT | | | | | | | | |
| 4 | | | IN \$ | | | | | | | | |
| 5 | 2002 | | 5,000 | | | | | | | | |
| 6 | 2003 | | 10,000 | | | | | | | | |
| 7 | 2004 | | 10,000 | | | | | | | | |
| 8 | 2005 | | 10,000 | | | | | | | | |
| 9 | 2006 | | 10,000 | | | | | | | | |
| 10 | 2007 | | 60,000 | | | | | | | | |
| 11 | 2008 | | 60,000 | | | | | | | | |
| 12 | 2009 | | 60,000 | | | | | | | | |
| 13 | 2010 | | 60,000 | | | | | | | | |
| 14 | 2011 | | 75,000 | | | | | | | | |
| 15 | 2012 | | 75,000 | | | | | | | | |
| 16 | 2013 | | 75,000 | | | | | | | | |
| 17 | 2014 | | 75,000 | | | | | | | | |
| 18 | 2015 | | 75,000 | | | | | | | | |
| 19 | 2016 | | 65,000 | | | | | | | | |
| 20 | 2017 | | 65,000 | | | | | | | | |
| 21 | 2018 | | 65,000 | | | | | | | | |
| 22 | 2019 | | 65,000 | | | | | | | | |
| 23 | 2020 | | 60,000 | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | TOTAL | | 980,000 | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | PROJECT | | 2,467,508 | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | Revised | 01/25/02 | | | | | | | | | |



4. The project is proposed to begin in the year 2020, or shortly after. The city will set aside approximately 25%-30% of the total cost in the interim. The chart above shows a proposed schedule for accumulating about \$900,000 for the project. Some money may be used along the way to secure water rights as the opportunity arises.

The city will seek grant funding and/or low interest loans from the state for the completion of well drilling and transmission lines to existing ground storage tanks. Other than TWDB, it is not known what funding sources will be available at that time.

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Canyon

Water Management Strategy Name: Develop new groundwater rights

Capital Cost: \$2,728,454

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 550,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 550,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 2,178,454.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

*Community Development Block Grants
Texas Water Development Board grants
Any other funding source available.*

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Claude

Water Management Strategy Name: Install 2 new wells

Capital Cost: \$1,585,990

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 504,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 504,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 1,081,990.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

TCDP Grants and Texas Water Development Loans

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Groom

Water Management Strategy Name: Install 1 new well in City

Capital Cost: \$299,207

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 50,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 60,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 240,000.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) *bonds, loans, grant*

whatever is available

PRPC

JAN 25 2002

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Gruver

Water Management Strategy Name: Palo Duro River Authority Project

Capital Cost: \$1,872,376

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 93,418.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 93,618.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 1,778,758.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

GRANTS

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Gruver

Water Management Strategy Name: Develop existing & new GW rights

Capital Cost: \$768,821

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 76,882.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 76,882.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 691,939.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of McLean

Water Management Strategy Name: Install 2 new wells w/in 1.5 miles

Capital Cost: \$1,277,140

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ - 0 -.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ - 0 -.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 1,277,140.00

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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WATER INFRASTRUCTURE FINANCING SURVEY

PRPC

JAN 29 2002

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Panhandle

Water Management Strategy Name: Install 2 new wells

Capital Cost: \$888,170

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ zero.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 90,000⁰⁰.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 798,170.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Any AND all that are available at the time of the needed project. (in example TWDB Bond Funds.)

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WATER INFRASTRUCTURE FINANCING SURVEY

PRPC

FEB 07 2002

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Perryton

Water Management Strategy Name: Develop Existing and New water rights

Capital Cost: \$5,462,979

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 1.5m.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 2.0 m.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 3.0 m.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

UNKNOWN AT THIS TIME

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WATER INFRASTRUCTURE FINANCING SURVEY

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Name of Political Subdivision: City of Shamrock

Water Management Strategy Name: Install 2 new wells, 12 mi. transmission

Capital Cost: \$3,177,861

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ the city could pay approximately \$ 80,000 annually to retire long term debt incurred to pay the

- If you could access the State Participation Program, how much of the capital ^{capitalization} cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ Same as above

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ the city would not be able to pay any of the capitalization costs w/o long-term debt.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

- General obligation bonds if passed by voters
- Low interest rate loans available through Texas Water Development Program with 20 yr pay-out
- Any grants that we might qualify for.
- City employees would perform all aspects of ^{project} _{work} that is possible in order to reduce cost

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WATER INFRASTRUCTURE FINANCING SURVEY

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Name of Political Subdivision: City of Sunray

Water Management Strategy Name: Palo Duro River Authority Project

Capital Cost: \$4,680,941

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 600,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 600,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 4,080,941.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Tax/Revenue Bonds
TWDB Funding Programs
CDBG Program

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WATER INFRASTRUCTURE FINANCING SURVEY

FEB 28 2002

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Sunray

Water Management Strategy Name: Install 2 new wells w/in 5 miles

Capital Cost: \$2,587,114

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 600,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 600,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 1,987,114.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

*Tax/Revenue Bonds
TWDB Funding Programs
CDBG Program*

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PRPC

WATER INFRASTRUCTURE FINANCING SURVEY

JAN 30 2002

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Wheeler

Water Management Strategy Name: Install 2 new wells, 15 mi. transmission

Capital Cost: \$3,700,590

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100,000.00.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 100,000.00.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 3,600,590.00.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider?

(use additional sheets, if necessary) Bonds, State Participation Program, TWDC Water System Bonds, Community Development.

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WATER INFRASTRUCTURE FINANCING SURVEY

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FEB 06 2002

Name of Political Subdivision: City of White Deer

Water Management Strategy Name: Install 2 new wells in city

Capital Cost: \$714,206

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100,000.⁰⁰.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 100,000.⁰⁰.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 614,206.⁰⁰

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

State grant funding, bond election, etc.

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WATER INFRASTRUCTURE FINANCING SURVEY

PRPC

APR 10 2002

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Moore County - Other Needs-Domestic

Water Management Strategy Name: Develop new water rights

Capital Cost: \$Included in Muni. Surveys (Dumas, Catcus, Fritch, Sunray

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ NA.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ NA.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ NA.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

It is not currently the county's responsibility to provide water nor is there any funding mechanism in place for such a project.

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WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Oldham County - Other Needs-Domestic

Water Management Strategy Name: Assume Strategies in error due to Cal Farley's Boys Ranch Irrigation Use
I AGREE WITH THE ASSUMPTION THAT CAL FARLEY'S IS IN ERROR

Capital Cost: \$Unknown

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ UNKNOWN, DUE TO LACK OF AUTHORITY

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ UNKNOWN, SAME AS ABOVE

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ UNKNOWN, SAME AS ABOVE

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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Fax: 806-373-3268

WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Potter County - Other Needs-Domestic

Water Management Strategy Name: Develop new water rights

Capital Cost: \$3,057,133

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ - 0 -.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ - 0 -.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ - 0 - (3,057,133)
JA

4. For the costs the political subdivision cannot pay, what option(s) is proposed?
What, if any, state funding sources would the political subdivision consider?
(use additional sheets, if necessary)

No options identified - County provides no PWS service

*JA
5/31/92
Cmt. w/ Judge
Woe*

PANHANDLE WATER PLANNING GROUP

P.O. Box 9257
Phone: 806-372-3381

Amarillo, Texas 79105
Fax: 806-373-3268

PRFC

WATER INFRASTRUCTURE FINANCING SURVEY

MAR 07 2002

Instructions: For **each** of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Randall County - Other Needs-Domestic

Water Management Strategy Name: Develop new water rights

Capital Cost: \$7,644,294

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above? *Randall County does not currently realize any utility revenue. I don't see that changing.*
The political subdivision can afford to pay \$ Zero.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases? *For some reason or abuse,*
The political subdivision can afford to pay \$ Zero.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?
The political subdivision cannot afford to pay \$ any. *Not from utility revenues.*

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) *The only local option would be to have a bond issue to raise this amount of money. I am not knowledgeable about state funding sources.*

- *Teed Ward*
Randall County Judge
Page 2 of 3

460-5300

02/01/02

Attachment C
Follow-Up Telephone Log

Attachment D
Texas Water Development Board Comments & Responses

PANHANDLE WATER PLANNING GROUP

P.O. Box 9257
Phone: 806-372-3381

Amarillo, Texas 79105
Fax: 806-373-3268

Memorandum

To: PWPG Members
From: Jarrett Atkinson
Date: May 31, 2002
Re: IFR & Comment Responses

Attached please find a copy of the comments submitted by the Texas Water Development Board regarding the Infrastructure Finance Report. The comments have been addressed as follows:

Comment 1 – Cost Summary – Information from WUG Shamrock was entered incorrectly, this has been addressed in the Excel template and updated on pages 3 and 4 of the report.

Comment 2- Water User Groups with Needs – Telephone Log – this has been completed and will be included in Attachment C

Comment 3 – County Aggregate Users – Completed, see pages 3 and 6-7 of the report.

Comment 4 – Water User Groups with Needs – Telephone Log – this has been completed and will be included in Attachment C

To reduce the amount of copying and the size of the mailing, the attachments are not included in this print-out. They will be available for review at the meeting next Thursday.

Thank you,
Jarrett Atkinson



TEXAS WATER DEVELOPMENT BOARD



Wales H. Madden, Jr., *Chairman*
William W. Meadows, *Member*
Dario Vidal Guerra, Jr., *Member*

J. Kevin Ward
Executive Administrator

Jack Hunt, *Vice Chairman*
Thomas Weir Labatt III, *Member*
E. G. ... *Member*

May 14, 2002

PRPC
MAY 28 2002

Mr. Gary Pitner
Panhandle Regional Planning Commission
P.O. Box 9257
Amarillo, Texas 79105

RE: Regional Water Planning Grant Contract Between the Panhandle Regional Planning Commission (PRPC) and the Texas Water Development Board (Board), Contract No. 2002-483-428, Review of Draft Final Reports Entitled "Infrastructure Financing Report, Region A"

Dear Mr. Pitner:

Staff members of the Texas Water Development Board have completed a review of the draft report under TWDB Contract No. 2002-483-428. As stated in the above referenced contract, the PRPC will consider incorporating comments from the EXECUTIVE ADMINISTRATOR shown in Attachment 1 and other commentors on the draft final report into a final report. The PRPC must include a copy of the EXECUTIVE ADMINISTRATOR's comments in the final report. In addition, please submit a copy of the notice or agenda for the meeting which will include adoption of the IFR by the Regional Water Planning Group.

The Board looks forward to receiving one (1) electronic copy, one (1) unbound single-sided camera-ready original, and nine (9) bound double-sided copies of the final report on this planning project.

Please contact Mr. Stefan Schuster at (512) 936-2344 if you have any questions about the Board's comments.

Sincerely,

William F. Mullican, III
Deputy Executive Administrator
Office of Planning

Cc: Stefan Schuster, TWDB

Our Mission

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**ATTACHMENT 1
TEXAS WATER DEVELOPMENT BOARD
TWDB Contract No. 2002-483-428**

REPORT COMMENTS

1. Cost summary data is contradictory and confusing in some cases. For example, the WUG 'Shamrock' (see below) is characterized in the IFR draft as being both able and unable to pay the full cost amount (\$3,177,861). The share of capital costs that WUGs are 'able' and 'unable' to pay should add up to the full capital cost listed in the TWDB template. For the WUG 'Shamrock', these costs are both equal to the total template capital cost and, in any case, should add up to the total \$3,177,861 cost.

| Capital Cost | How much can P.S. afford from current utility revenue sources? | If Accessing State Participation Program, how much can P.S. afford from current utility revenue sources? | How much is P.S. unable to pay for WMS? |
|----------------|--|--|---|
| \$3,177,861.00 | \$2,400,000.00 | \$2,400,000.00 | \$3,177,861.00 |

2. Water User Groups with Needs. Documentation of follow-up (minimum of two efforts.) Must include date of contact, method of contact, person contacted, and name of political subdivision.
3. County Aggregated Water Uses. Summary discussions were not included which detail probable funding mechanisms. Documentation of the process used for the responses was not included.
4. County-Other Water User Groups with Needs. Documentation of follow-up (minimum of two efforts.) Must include date of contact, method of contact, person contacted, and name of political subdivision.

Attachment E
IFR – Template – Printout Version

Attachment E
IFR – Template – Printout Version

| WUG_NAME | WUGID | WUGRWG | ESCHD | CITY | WUGCOUNTY | WUGBASIN | WUGSTRAT |
|--|-----------|--------|-------|------|-----------|----------|--|
| Please do not alter populated fields. | | | | | | | |
| AMARILLO | 010020000 | A | 0020 | 0014 | 188 | 01 | ROBERTS COUNTY WELL FIELD |
| AMARILLO | 010020000 | A | 0020 | 0014 | 188 | 01 | ROBERTS COUNTY WELL FIELD |
| AMARILLO | 010020000 | A | 0020 | 0014 | 188 | 02 | ROBERTS COUNTY WELL FIELD |
| AMARILLO | 010020000 | A | 0020 | 0014 | 188 | 02 | SEE AMARILLO CANADIAN BASIN FOR STRATEGY |
| AMARILLO | 010020000 | A | 0020 | 0014 | 188 | 02 | SEE AMARILLO CANADIAN BASIN FOR STRATEGY |
| AMARILLO | 010020000 | A | 0020 | 0014 | 191 | 02 | ROBERTS COUNTY WELLS (WELLS SO PROVIDE FOR |
| CACTUS | 010134000 | A | 0134 | 0762 | 171 | 01 | PORTION OF MFG) |
| CACTUS | 010134000 | A | 0134 | 0762 | 171 | 01 | PALO DURO RESERVOIR PROJECT |
| CANADIAN | 010142000 | A | 0142 | 0093 | 106 | 01 | INSTALL 2 NEW WELLS WITHIN 5 MILES |
| CANYON | 010145000 | A | 0145 | 0096 | 191 | 02 | INSTALL THREE NEW WELLS |
| CANYON | 010145000 | A | 0145 | 0096 | 191 | 02 | ROBERTS COUNTY WELL FIELD |
| CLAUDE | 010173000 | A | 0173 | 0114 | 006 | 02 | INSTALL 2 NEW WELLS WITHIN 3 MILES OF CITY |
| DUMAS | 010255000 | A | 0255 | 0170 | 171 | 01 | INSTALL 3 NEW WELLS |
| DUMAS | 010255000 | A | 0255 | 0170 | 171 | 01 | PALO DURO RESERVOIR PROJECT |
| GROOM | 010365000 | A | 0365 | 0875 | 033 | 02 | DETAILS OF DESIGN AND ADDITIONAL WATER RIGHTS (2 |
| GRUVER | 010368000 | A | 0368 | 0256 | 098 | 01 | WELLS) |
| GRUVER | 010368000 | A | 0368 | 0256 | 098 | 01 | PALO DURO RESERVOIR |
| LAKE TANGLEWOOD | 010500000 | A | 0500 | 0895 | 191 | 02 | INSTALL 2 NEW WELLS YEAR - NO NEW STRATEGY |
| LEFORS | 010515000 | A | 0515 | 0898 | 090 | 02 | NEEDED |
| MCLEAN | 010578000 | A | 0578 | 0380 | 090 | 02 | INSTALL 2 NEW WELLS WITHIN 1.5 MILES |
| PANHANDLE | 010675000 | A | 0675 | 0453 | 033 | 02 | INSTALL 2 NEW WELLS WITHIN CITY |
| PERRYTON | 010689000 | A | 0689 | 0461 | 179 | 01 | INSTALL 5 NEW WELLS |
| SHAMROCK | 010822000 | A | 0822 | 0554 | 242 | 02 | TWO NEW WELLS IN OGALLALA |
| SKELLYTOWN | 010834000 | A | 0834 | 0960 | 033 | 01 | INSTALL ONE NEW WELL WITHIN CITY |
| SUNRAY | 010872000 | A | 0872 | 0588 | 171 | 01 | INSTALL 2 NEW WELLS |
| SUNRAY | 010872000 | A | 0872 | 0588 | 171 | 01 | PALO DURO RESERVOIR PROJECT |
| VEGA | 010928000 | A | 0928 | 0622 | 180 | 01 | INSTALL NEW WELL IN DEAF SMITH COUNTY |
| VEGA | 010928000 | A | 0928 | 0622 | 180 | 02 | SEE VEGA CANADIAN BASIN FOR STRATEGY |
| WHEELER | 010961000 | A | 0961 | 0646 | 242 | 02 | INSTALL ONE NEW WELL |
| WHITE DEER | 010962000 | A | 0962 | 0647 | 033 | 01 | INSTALL 2 NEW WELLS WITHIN CITY |
| WHITE DEER | 010962000 | A | 0962 | 0647 | 033 | 02 | INSTALL 2 NEW WELLS WITHIN CITY |

| WUG NAME | WUG ID | WUG RWPG | SEQ ID | CITY ID | WUG COUNTY ID | WUG BASIN ID | WUG NAME |
|---|-----------|----------|--------|---------|---------------|--------------|--|
| Please do not alter populated fields | | | | | | | |
| COUNTY-OTHER | 010996056 | A | 0996 | 0757 | 056 | 01 | SUPPLY PROMISE BY DUMAS, FRITCH, AND NEW |
| COUNTY-OTHER | 010996171 | A | 0996 | 0757 | 171 | 01 | SUPPLY PROMISE BY DUNN AND DUMAS SEE |
| COUNTY-OTHER | 010996171 | A | 0996 | 0757 | 171 | 01 | STRATEGIES FOR SOURCE |
| COUNTY-OTHER | 010996180 | A | 0996 | 0757 | 180 | 01 | CORRECTION WITH BOYS RANCH |
| COUNTY-OTHER | 010996180 | A | 0996 | 0757 | 180 | 02 | ADRIAN |
| COUNTY-OTHER | 010996188 | A | 0996 | 0757 | 188 | 01 | INSTALL TEN NEW WELLS |
| COUNTY-OTHER | 010996188 | A | 0996 | 0757 | 188 | 01 | ROBERTS COUNTY WELL FIELD |
| COUNTY-OTHER | 010996188 | A | 0996 | 0757 | 188 | 02 | ROBERTS COUNTY WELL FIELD CANADIAN BASIN FOR |
| COUNTY-OTHER | 010996188 | A | 0996 | 0757 | 188 | 02 | STRATEGY |
| COUNTY-OTHER | 010996191 | A | 0996 | 0757 | 191 | 01 | INSTALL 18 ADDITIONAL WELLS IN RANDALL CO |
| COUNTY-OTHER | 010996191 | A | 0996 | 0757 | 191 | 01 | ROBERTS COUNTY WELL FIELD |
| COUNTY-OTHER | 010996191 | A | 0996 | 0757 | 191 | 02 | ROBERTS COUNTY WELL FIELD |
| COUNTY-OTHER | 010996191 | A | 0996 | 0757 | 191 | 02 | SEE COUNTY OTHER FOR CANADIAN BASIN |
| MANUFACTURING | 011001056 | A | 1001 | 1001 | 056 | 01 | SEE COUNTY OTHER FOR PAMPA'S OGALLALA |
| MANUFACTURING | 011001090 | A | 1001 | 1001 | 090 | 01 | WELL FIELD |
| MANUFACTURING | 011001171 | A | 1001 | 1001 | 171 | 01 | GROUNDWATER VIA CACTUS |
| MANUFACTURING | 011001171 | A | 1001 | 1001 | 171 | 01 | GROUNDWATER VIA NEW SUPPLIES |
| MANUFACTURING | 011001171 | A | 1001 | 1001 | 171 | 01 | PRETREATMENT REQUIRED FOR CACTUS (NOT INCLUDED |
| MANUFACTURING | 011001171 | A | 1001 | 1001 | 171 | 01 | IN SUPPLY) ASSUME 5% |
| MANUFACTURING | 011001188 | A | 1001 | 1001 | 188 | 01 | INSTALL TWO NEW WELLS |
| MANUFACTURING | 011001188 | A | 1001 | 1001 | 188 | 01 | ROBERTS COUNTY WELL FIELD |
| MANUFACTURING | 011001191 | A | 1001 | 1001 | 191 | 02 | INSTALL ONE NEW WELL |
| MANUFACTURING | 011001191 | A | 1001 | 1001 | 191 | 02 | ROBERTS COUNTY WELL FIELD |
| MANUFACTURING | 011002171 | A | 1002 | 1002 | 171 | 01 | INCREASE DUMAS WELLS FROM |
| POWER | 011002188 | A | 1002 | 1002 | 188 | 01 | AMARILLO |
| MINING | 011003180 | A | 1003 | 1003 | 180 | 02 | ADDITIONAL WELLS IN DOCKUM AQUIFER |
| MINING | 011003188 | A | 1003 | 1003 | 188 | 01 | DOCKUM AQUIFER |
| MINING | 011003188 | A | 1003 | 1003 | 188 | 02 | SEE POTTER MINING CANADIAN BASIN FOR STRATEGY |
| IRRIGATION | 011004056 | A | 1004 | 1004 | 056 | 01 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004056 | A | 1004 | 1004 | 056 | 01 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004056 | A | 1004 | 1004 | 056 | 01 | ENHANCEMENT |

| WUG NAME | WUG ID | WUG RWRS | SEQ# | CITY ID | WUG COUNTRY ID | WUG BASIN ID | WUG NAME |
|--|-----------|----------|------|---------|----------------|--------------|--|
| Please do not alter populated fields. | | | | | | | |
| IRRIGATION | 011004056 | A | 1004 | 1004 | 056 | 01 | IRRIGATION STRATEGIES - SHORT SEASON CORN |
| IRRIGATION | 011004056 | A | 1004 | 1004 | 056 | 01 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004171 | A | 1004 | 1004 | 171 | 01 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004171 | A | 1004 | 1004 | 171 | 01 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004171 | A | 1004 | 1004 | 171 | 01 | ENHANCEMENT |
| IRRIGATION | 011004171 | A | 1004 | 1004 | 171 | 01 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| IRRIGATION | 011004171 | A | 1004 | 1004 | 171 | 01 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 01 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 01 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 01 | ENHANCEMENT |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 01 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 01 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 02 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 02 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 02 | ENHANCEMENT |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 02 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| IRRIGATION | 011004180 | A | 1004 | 1004 | 180 | 02 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 01 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 01 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 01 | ENHANCEMENT |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 01 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 01 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 02 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 02 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 02 | ENHANCEMENT |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 02 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| IRRIGATION | 011004188 | A | 1004 | 1004 | 188 | 02 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 01 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 01 | IRRIGATION STRATEGIES - PRECIPITATION |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 01 | ENHANCEMENT |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 01 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |

| WUG NAME | WUG ID | WUG RWPG | SEQ ID | CITY ID | WUG COUNTY ID | WUG BASIN ID | WUG STRAT NAME |
|--|-----------|----------|--------|---------|---------------|--------------|---|
| Please do not alter populated fields. | | | | | | | |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 01 | IRRIGATION STRATEGIES - TILLAGE |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 02 | IRRIGATION STRATEGIES - LEPA |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 02 | IRRIGATION STRATEGIES - NRECIPIATION |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 02 | ENHANCEMENT |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 02 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| IRRIGATION | 011004191 | A | 1004 | 1004 | 191 | 02 | IRRIGATION STRATEGIES - SHORT SEASON SORGHUM |
| LIVESTOCK | 011005056 | A | 1005 | 1005 | 056 | 01 | NEWBY COUNTY RIGHTS OR IMPORT WATER FROM |
| LIVESTOCK | 011005171 | A | 1005 | 1005 | 171 | 01 | NEWBY COUNTY RIGHTS OR IMPORT WATER FROM |
| LIVESTOCK | 011005191 | A | 1005 | 1005 | 191 | 01 | NEWBY COUNTY RIGHTS OR IMPORT WATER FROM |
| LIVESTOCK | 011005191 | A | 1005 | 1005 | 191 | 02 | NEARBY COUNTIES |
| MANUFACTURING | 011001106 | A | 1001 | 1001 | 106 | 02 | NO MANAGEMENT STRATEGY IDENTIFIED |
| MINING | 011003096 | A | 1003 | 1003 | 096 | 02 | NO MANAGEMENT STRATEGY IDENTIFIED |
| MINING | 011003148 | A | 1003 | 1003 | 148 | 01 | NO MANAGEMENT STRATEGY IDENTIFIED |
| MINING | 011003191 | A | 1003 | 1003 | 191 | 02 | NO MANAGEMENT STRATEGY IDENTIFIED |

| WUG NAME | WMS TYPE | CONSO ID | SG NAME | CAF COS | Strategy Implementation Date | own interests revenue sources? |
|----------------------------|----------|----------|--------------------------|------------------|------------------------------------|-----------------------------------|
| Please do not alter | | | | | | |
| AMARILLO | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| AMARILLO | 4J1 | 19721 | OGALLALA AQUIFER | \$154,829,940.00 | 2040 | \$154,829,940.00 |
| AMARILLO | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| AMARILLO | 4J1 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| AMARILLO | 4J1 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| AMARILLO | 4J2 | 19721 | OGALLALA AQUIFER | \$208,124,865.00 | 2040 | \$154,829,940.00 |
| CACTUS | 4J6 | 17121 | OGALLALA AQUIFER | \$5,232,510.00 | | |
| CACTUS | 4D | 01020 | PALO DURO LAKE/RESERVOIR | \$18,723,763.00 | | |
| CANADIAN | 4J15 | 10621 | OGALLALA AQUIFER | \$2,467,508.00 | 2020 | \$980,000.00 |
| CANYON | 4J17 | 19121 | OGALLALA AQUIFER | \$2,728,454.00 | 2040 | \$550,000.00 |
| CANYON | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| CLAUDE | 4J8 | 00621 | OGALLALA AQUIFER | \$1,585,990.00 | 2030 | \$504,000.00 |
| DUMAS | 4J5 | 17121 | OGALLALA AQUIFER | \$3,919,408.00 | | |
| DUMAS | 4D | 01020 | PALO DURO LAKE/RESERVOIR | \$23,966,417.00 | | |
| GROOM | 4J9 | 03321 | OGALLALA AQUIFER | \$299,207.00 | 2045 | \$50,000.00 |
| GRUVER | 4J3 | 09821 | OGALLALA AQUIFER | \$768,821.00 | 2012 | \$76,882.00 |
| GRUVER | 4D | 01020 | PALO DURO LAKE/RESERVOIR | \$1,872,376.00 | 2030 | \$93,618.00 |
| LAKE TANGLEWOOD | 4J18 | 19121 | OGALLALA AQUIFER | \$1,058,356.00 | N/A | N/A |
| LEFORS | 4J | 09021 | OGALLALA AQUIFER | \$0.00 | N/A | N/A |
| MCLEAN | 4J14 | 09021 | OGALLALA AQUIFER | \$1,277,140.00 | 2020 | \$0.00 |
| PANHANDLE | 4J10 | 03321 | OGALLALA AQUIFER | \$888,170.00 | 2036 | \$0.00 |
| PERRYTON | 4J22 | 17921 | OGALLALA AQUIFER | \$5,462,979.00 | 2010 | \$1,500,000.00 |
| SHAMROCK | 4J20 | 24221 | OGALLALA AQUIFER | \$3,177,861.00 | 2032 | \$1,600,000.00 |
| SKELLYTOWN | 4J11 | 03321 | OGALLALA AQUIFER | \$299,412.00 | | |
| SUNRAY | 4J7 | 17121 | OGALLALA AQUIFER | \$2,587,114.00 | 2030 | \$600,000.00 |
| SUNRAY | 4D | 01020 | PALO DURO LAKE/RESERVOIR | \$4,680,941.00 | 2030 | \$600,000.00 |
| VEGA | 4J16 | 05921 | OGALLALA AQUIFER | \$1,727,357.00 | | |
| VEGA | 4J16 | 05921 | OGALLALA AQUIFER | \$0.00 | | |
| WHEELER | 4J21 | 24221 | OGALLALA AQUIFER | \$3,700,590.00 | 2009 | \$100,000.00 |
| WHITE DEER | 4J12 | 03321 | OGALLALA AQUIFER | \$714,206.00 | 2037 | \$100,000.00 |
| WHITE DEER | 4J12 | 03321 | OGALLALA AQUIFER | \$0.00 | | |

| WUG_NAME | WMS CODE | WMS ID | WMS NAME | CAP COST | Strategy Implementation Date | Revenue sources |
|----------------------------|----------|---------|--------------------------|-----------------|------------------------------|-----------------|
| Please do not alter | | | | | | |
| COUNTY-OTHER | 4J13 | 10321 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4E2 | 17121 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4E1 | 01020 | PALO DURO LAKE/RESERVOIR | \$0.00 | | |
| COUNTY-OTHER | 4E3 | 99999 | STRATEGY NOT IDENTIFIED | \$0.00 | | |
| COUNTY-OTHER | 4E3 | 18021 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4J23 | 18821 | OGALLALA AQUIFER | \$3,057,133.00 | 2040 | \$0.00 |
| COUNTY-OTHER | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4J23 | 18821 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4J24 | 19121 | OGALLALA AQUIFER | \$7,644,294.00 | 2040 | \$0.00 |
| COUNTY-OTHER | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| COUNTY-OTHER | 4J24 | 19121 | OGALLALA AQUIFER | \$0.00 | | |
| MANUFACTURING | 4J26 | 05621 | OGALLALA AQUIFER | \$293,576.00 | | |
| MANUFACTURING | 4J | 09021 | OGALLALA AQUIFER | \$0.00 | | |
| MANUFACTURING | 4J6 | 17121 | OGALLALA AQUIFER | \$0.00 | | |
| MANUFACTURING | 4J29 | 17121 | OGALLALA AQUIFER | \$9,469,879.00 | | |
| MANUFACTURING | 4D | 01020 | PALO DURO LAKE/RESERVOIR | \$0.00 | | |
| MANUFACTURING | 4B1 | 3601171 | DIRECT REUSE | \$0.00 | | |
| MANUFACTURING | 4B2 | 18821 | OGALLALA AQUIFER | \$701,773.00 | | |
| MANUFACTURING | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| MANUFACTURING | 4B3 | 19121 | OGALLALA AQUIFER | \$307,360.00 | | |
| MANUFACTURING | 4J2 | 19721 | OGALLALA AQUIFER | \$0.00 | | |
| BOILER ELECTRIC | 4J33 | 17121 | OGALLALA AQUIFER | \$334,320.00 | | |
| POWER | 4B4 | 3601188 | DIRECT REUSE | \$9,659,623.00 | | |
| MINING | 4J36 | 18026 | DOCKUM AQUIFER | \$510,833.00 | | |
| MINING | 4J37 | 18826 | DOCKUM AQUIFER | \$852,070.00 | | |
| MINING | 4J37 | 18826 | DOCKUM AQUIFER | \$0.00 | | |
| IRRIGATION | 4A4 | 38056 | DOCKUM AQUIFER | \$10,432,928.00 | | |
| IRRIGATION | 4A3 | 38056 | DOCKUM AQUIFER | \$17,075.00 | | |
| IRRIGATION | 4L | 37056 | COUNTY 056 | \$0.00 | | |

| WUG_NAME | WMS_TYPE | WBS_ID | SO_NAME | CAP_COST | Strategy Implementation Date | What are the alternative revenue sources? |
|----------------------------|----------|--------|--------------------------|----------------|------------------------------|---|
| Please do not alter | | | OTHER CONSERVATION | | | |
| IRRIGATION | 4A1 | 38056 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38056 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38171 | COUNTY CONSERVATION | \$7,492,758.00 | | |
| IRRIGATION | 4A3 | 38171 | COUNTY CONSERVATION | \$10,284.00 | | |
| IRRIGATION | 4L | 38171 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38171 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38171 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38180 | COUNTY CONSERVATION | \$3,532,215.00 | | |
| IRRIGATION | 4A3 | 38180 | BENEFITATION ENHANCEMENT | \$1,811.00 | | |
| IRRIGATION | 4L | 37180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A3 | 38180 | BENEFITATION ENHANCEMENT | \$0.00 | | |
| IRRIGATION | 4L | 37180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38180 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38188 | COUNTY CONSERVATION | \$3,503,913.00 | | |
| IRRIGATION | 4A3 | 38188 | BENEFITATION ENHANCEMENT | \$1,693.00 | | |
| IRRIGATION | 4L | 37188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A3 | 38188 | BENEFITATION ENHANCEMENT | \$0.00 | | |
| IRRIGATION | 4L | 37188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38188 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38191 | COUNTY CONSERVATION | \$4,236,576.00 | | |
| IRRIGATION | 4A3 | 38191 | BENEFITATION ENHANCEMENT | \$2,811.00 | | |
| IRRIGATION | 4L | 37191 | COUNTY CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38191 | COUNTY 191 | \$0.00 | | |

| WUG NAME | WMS TYPE | SO ID | SO NAME | GAP COST | Strategy Implementation Date | How much can be implemented? revenue sources? |
|----------------------------|----------|-------|------------------------------|-----------------|------------------------------|---|
| Please do not alter | | | | | | |
| OTHER CONSERVATION | | | | | | |
| IRRIGATION | 4A6 | 38191 | OTHER CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A4 | 38191 | OTHER CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A3 | 38191 | PRECIPITATION ENHANCEMENT | \$0.00 | | |
| IRRIGATION | 4L | 37191 | OTHER CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A5 | 38191 | OTHER CONSERVATION | \$0.00 | | |
| IRRIGATION | 4A6 | 38191 | COUNTY 191 | \$0.00 | | |
| LIVESTOCK | 4K | 37056 | OGALLALA AQUIFER ENHANCEMENT | \$15,503,746.00 | | |
| LIVESTOCK | 4J40 | 37171 | COUNTY 171 | \$7,972,527.00 | | |
| LIVESTOCK | 4J41 | 19121 | OGALLALA AQUIFER | \$9,653,252.00 | | |
| LIVESTOCK | 4J41 | 19121 | OGALLALA AQUIFER | \$0.00 | | |
| MANUFACTURING | | 99999 | STRATEGY NOT IDENTIFIED | \$0.00 | | |
| MINING | | 99999 | STRATEGY NOT IDENTIFIED | \$0.00 | | |
| MINING | | 99999 | STRATEGY NOT IDENTIFIED | \$0.00 | | |
| MINING | | 99999 | STRATEGY NOT IDENTIFIED | \$0.00 | | |

| WUG_NAME | If Accessing State Participation Program how much can P.S. afford from current utility revenue sources? | How much is P.S. unable to pay now/MS | Notes |
|----------------------------|---|---------------------------------------|---|
| Please do not alter | | | |
| AMARILLO | | | |
| AMARILLO | n/a | n/a | |
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| AMARILLO | \$208,124,865.00 | \$53,294,925.00 | SRF, County participation, private participation, other |
| CACTUS | | | being submitted |
| CACTUS | | | being submitted |
| CANADIAN | \$980,000.00 | \$1,487,508.00 | will budget 25% during interim and accumulate \$900,000, use grants, low interest state |
| CANYON | \$550,000.00 | \$2,178,454.00 | cdbg, twdb, others |
| CANYON | | | |
| CLAUDE | \$504,000.00 | \$1,081,990.00 | TCDP Grants, TWDB loans |
| DUMAS | | | being submitted |
| DUMAS | | | being submitted |
| GROOM | \$60,000.00 | \$240,000.00 | bonds, loans, grants |
| GRUVER | \$76,882.00 | \$691,939.00 | Grants |
| GRUVER | \$93,618.00 | \$1,778,758.00 | Grants |
| LAKE TANGLEWOOD | N/A | N/A | N/A - private for profit - no state funds used or accepted |
| LEFORS | N/A | N/A | Strategy completed |
| MCLEAN | \$0.00 | \$1,277,140.00 | |
| PANHANDLE | \$90,000.00 | \$798,170.00 | any available such as TWDB bond program |
| PERRYTON | \$2,000,000.00 | \$3,000,000.00 | unknown |
| SHAMROCK | \$1,600,000.00 | \$1,577,861.00 | NOTE: based on 80,000 annual debt payment for 20 year bonds (see survey instrument) |
| SKELLYTOWN | | | |
| SUNRAY | \$600,000.00 | \$1,987,114.00 | tax/revenue bonds, twdb, cdbg |
| SUNRAY | \$600,000.00 | \$4,080,941.00 | tax/revenue bonds, twdb, cdbg |
| VEGA | | | being submitted |
| VEGA | | | |
| WHEELER | \$100,000.00 | \$3,600,590.00 | bonds, state participation program, twdb, cdbg |
| WHITE DEER | \$100,000.00 | \$614,206.00 | state grant funding, local bonds |
| WHITE DEER | | | |

| WUG NAME | If Accessing State Participation Program how much can be subtracted from current utility revenue sources? | How much is P.S. 1122 based on 10/1/11 MS? | Notes |
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| WUG NAME | Accessing State Participant Program: how much will be afforded from current utility revenue sources? | How many staffs available to WWS | Other |
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