

Panhandle Regional Plan Comments and Responses

Name	Comment	Action?	Response
John Killham	Wants to see what happens when the Ogallala is removed from supply analysis	N	Over 93% of the regional supply would be removed resul
John Williams	Correct crosshatching on Dallam, Hansford, Lipscomb, and Ochiltree GIS figures in County Summaries to properly show that Ogallala is present	Y	Correction has been made to figures. Figures have not ye (10/5/05)
John Williams	Add aquifer designation to Carson, Armstrong, Donley, Gray, Hartley, Hemphill, Hutchinson, Moore, Oldham, Potter, Randall, Roberts, and Wheeler Counties in GIS figures in County Summaries	Y	Correction has been made to figures. Figures are bei
John Williams	Correct Supply and Demand bar charts for Dallam, Hall, Hartley, Moore, Randall, and Sherman Counties	Y	Correction has been made to fiç
John Williams	Change "Commission" to "Company" for High Texas Water on Hutchinson County Summary	Y	Corrected.
John Williams	Correct misspelling of County-Other on Donley County summary	Y	Corrected.
John Williams	Sources of supplies for Amarillo should be shown as both Ogallala and Lake Meredith	Y	Lake Meredith was added as a s
John Williams	The Randall sheet does not show a shortage or strategy for Amarillo while the Potter County sheet has a strategy. It is difficult to see how the Potter County portion of Amarillo can have a shortage requiring a strategy while the Randall county portion of Amarillo does not.	N	The shortage is shown as an allocation at the county level developed for the Randall portion applies to all of the wa Amarillo.
John Williams	Hutchinson County should be shown to have a shortage of water for irrigation use. See e-mail from John Williams for more information.	Y	Corrected.
John Williams	The shortages for Hartley for 2030 thru 2060 should be based on the GAM shortages instead of the availability determined from the 1.25% annual declining rate. See e-mail from John Williams for more information.	Y	Corrected.
Janet Guthrie	Requests using "not more than" in front of 1.25% available supply in the plan	Y	Language incorporated into all chapte
Matt Nelson	Correct y-axis labels on ES-25, ES-29, ES-37, ES-45. They should be % rather than ac-ft/yr.	Y	Corrected. Updated charts are located on the county su Report/Region A_Available Suppli
Matt Nelson	Make figure legible on ES-1.	Y	Changed figure to more clear r
Matt Nelson	Figure on ES-2 is missing y-axis label. Should be labeled Figure ES-2.	Y	Corrected.
Matt Nelson	Figures and tables have no labels/numbers on ES-4 and ES-5	Y	Corrected.
Matt Nelson	ES-10 through ES-36 are missing various page numbers.	Y	Corrected.
Matt Nelson	Second to last sentence on ES-4 is confusing.	Y	Corrected.
Matt Nelson	Figure 1-3 is missing y-axis until label.	Y	Added "Population" to y-axi
Matt Nelson	1-29, Table 1-10 through 1-13: right justify numbers to make them more easily read.	Y	Corrected.
Matt Nelson	Section 4.4 main header number is missing.	Y	Header number added.
Matt Nelson	Use of "SB-1" does not make sense in first sentence of Section 4.8.1 on page 170.	Y	Changed to "In the first round of p
Sammy Hurt	Wants explanation of "hierarchy" that agricultural committee recommended be used in analysis.	Y	"The Agriculture Committee was charged with finding strate the water this area has. We did an economic analysis on th determined that water can be valued between \$11 and \$15 Beef animal production brings the value to \$2400 per acre i Legislature came from this anal
Lloyd Pipin	"According to a study done by Dr. Amosson, a difference of two to three dollars in energy prices will spur a 17% decrease in water usage."	N	Comment noted
Al Alford	There have been billions of gallons of water wasted from the aquifer. No more water should be wasted. The idea of using shorter season crops would cost \$1.5 billion through 2060. That is less than \$28 million per year.	N	Comment noted
Larry McKinney (contact Cindy Loeffler with questions)	The Region A IPP does not include a quantitative reporting of environmental factors although in the strategy selection process the yield and environmental impact of projects were given greater consideration than the cost of water.	N	Quantitative reporting of water management strategy impa plan. These evaluations assisted in the selection of s environmental impacts. Due to the dependence on ground are available in meeting future de

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Larry McKinney (contact Cindy Loeffler with questions)	Potential impacts to spring flows and spring ecosystems should be identified where additional groundwater development was identified as a water management strategy.	N	Gunnar Brune's Springs of Texas identifies 16 major spring in the report, many of the springs have ceased to flow due to groundwater development. It is not expected that springs will have recovered.
Larry McKinney (contact Cindy Loeffler with questions)	The Panhandle area is a wintering site for millions of ducks and hundreds of thousands of geese. These waterfowl often use the waste grain, typically corn, left in the fields as a major part of their diet during winter months. As farmers switch to dry land crops, like wheat or cotton, the quality of winter forage may decline which may increase dietary stress on the birds.	N	Through the years, wildlife has had the increased opportunity from irrigated agriculture. In developing water management plans, irrigated to dryland agriculture is a method that would have been used. According to Ken Cearley (Extension Wildlife Specialist for the Panhandle), one method to circumvent this negative impact is better management of native forage or a reduction in the amount of wildlife.
Larry McKinney (contact Cindy Loeffler with questions)	TPWD especially supports the Region's consideration of brush control/management as an additional means of conserving water if done in a manner that can also benefit wildlife habitat.	N	The PWPG and CRMWA strive to support brush management and its improvement of habitat and its improvement.
Larry McKinney (contact Cindy Loeffler with questions)	TPWD is disappointed that the plan does not recommend nomination of any stream segments as ecologically unique.	N	The RPG decided the unknown consequences of designating stream segments as ecologically unique.
Myron Hess, Mary Kelly, Ken Kramer	Damaging and expensive new supply sources simply should not be considered unless, and until, all reasonable efforts to improve efficiency have been exhausted.	N	The PWPG agrees with this statement and urges all water users to improve efficiency.
Myron Hess, Mary Kelly, Ken Kramer	We do agree that reuse projects merit consideration. However, the implications of those projects are significantly different than for water efficiency measures and must be evaluated separately.	N	No further efficiency information is available at this time. Recommendations will be made to TWDB to further clarify the implementation of reuse as a water management strategy.
Myron Hess, Mary Kelly, Ken Kramer	We acknowledge and commend the strong recognition of the essential role of improved water efficiency in meeting irrigation demands. However, we urge the planning group to give stronger consideration to municipal and industrial water efficiency measures.	N	Irrigation accounts for over 90% of demands in the Panhandle. To reduce this demand, providing an order of magnitude in water efficiency is considered a priority.
Myron Hess, Mary Kelly, Ken Kramer	It just makes sense to limit some nonessential uses of water during times of serious shortage instead of spending vast sums of money to develop new supply sources simply to meet those nonessential demands. Consideration of drought management measures is required in order for the initially prepared plan to comply with applicable requirements.	N	The Drought Contingency and Conservation Plans submitted by the planning effort provide reductions in a variety of uses as named in the plan. These reductions vary between user groups and should be reduced to accommodate the most vulnerable users.
Myron Hess, Mary Kelly, Ken Kramer	Environmental flows should be recognized as a water demand and plans should seek to provide reasonable levels of environmental flows. Environmental flows provide critical economic and ecological services that must be maintained to ensure consistency with long-term protection of water resources and natural resources. Although we recognize that surface flows are very limited in the area, in many ways that only serves to make them more valuable.	N	The PWPG recognizes the importance of environmental flows. Current planning guidelines do not recognize these flows as a water demand.
Myron Hess, Mary Kelly, Ken Kramer	We urge the planning group to consider measures to move the region more rapidly towards true, long-term sustainable management of its groundwater resources.	N	The PWPG has adopted a 1.25% availability management plan to manage supplies by limiting withdrawals each year during drought conditions.
Myron Hess, Mary Kelly, Ken Kramer	Although not fully evaluated during this round of planning, the planning group does acknowledge the potential for such (voluntary) transfers for future consideration.	N	Voluntary transfers were considered when transferring supplies from agricultural to livestock due to greater economic value.

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Myron Hess, Mary Kelly, Ken Kramer	Change pie charts in county summaries such that information will be easier to differentiate when plans are printed in black and white.	N	Report will be printed in color
Myron Hess, Mary Kelly, Ken Kramer	Include a statement of the total amount of water use in county summaries for those counties in which an overall shortage of supply is predicted.	Y	Summaries of all counties and their shortages have been added
Myron Hess, Mary Kelly, Ken Kramer	Include the date of the issuance of term permits for Mesa Water, Inc. (Task 1, Planning Area Description)	Y	Permits were issued by the Panhandle Groundwater Conservancy District over a five year period with certain conditions. Text in Chapter 3 will describe these conditions.
Myron Hess, Mary Kelly, Ken Kramer	Include more information about springs in the Region (size, impact of springs on surface flows, etc.)	Y	Additional spring information was included in the plan using the guidebook.
Myron Hess, Mary Kelly, Ken Kramer	Need to include information about the criteria chosen by the PWPG for identifying major springs.	Y	Additional spring information was included in the plan using the guidebook.
Myron Hess, Mary Kelly, Ken Kramer	Reconfigure Table 1-13 to appear in one piece.	Y	Table corrected.
Myron Hess, Mary Kelly, Ken Kramer	Include additional discussion of aquatic wildlife resources in the region in Section 1.7.8	Y	Additional language describing aquatic wildlife has been added to the Arkansas River Shiner habitat and management plan.
Myron Hess, Mary Kelly, Ken Kramer	Include additional discussion of potential threats to the Arkansas River shiner, particularly as they may relate to water quantity issues.		CRMWA management plan on brush management. Critical habitat for the shiner is being identified.
Myron Hess, Mary Kelly, Ken Kramer	Information seems to be lacking about the tourism component of the regional economy.	N	All county summary pages include a listing of counties in which tourism is a component of the economy.
Myron Hess, Mary Kelly, Ken Kramer	Further explanation is needed regarding the rationale underlying the decision to use only well data that showed lower elevations for the base of the aquifer and to disregard those data that indicate higher elevations for the base of the aquifer. It appears that data were selectively used to increase the estimate of water in storage. See letter for further explanation of comment.	N	Previous versions of the model map the base of aquifer using data collected since 1999 indicate that some areas of Roberts County are not in the model. PGCD has reviewed drillers logs for many wells in the base of the Ogallala aquifer. The PWPG asked that the model account for new data. Honoring revised elevations in model cells would result in the simulation of some (~30) model cells dropping to 1998 simulation period. This was thought to be an unrealistic condition of the aquifer. No thinning of model cells, therefore the thickness of model cells might be justified by the uncertainty. The revised elevations were within ±30 ft of the previous model. The revised elevations were within ±50 ft for about 80 percent of the model cells and within ±50 ft for about 80 percent parameter adjustment to compensate for "thinning" of model cells would be beyond the scope of this work.
Myron Hess, Mary Kelly, Ken Kramer	Figure 3-3 shows increased availability for all counties as compared to the existing plan. Provide explanation for increased availability. Also discuss why 1.25% per year approach was selected.	Y	The previous round of planning did not include an official groundwater availability management policy and TWDB approved groundwater availability management policy is intended to secure 50% of the available supply.
Myron Hess, Mary Kelly, Ken Kramer	Additional explanation is needed for how Table 3-1 was developed and what assumptions are embedded in those results. See letter for further comments.	Y	Additional language explaining and clarifying the supply as added to Chapter 3.
Myron Hess, Mary Kelly, Ken Kramer	Additional explanation is needed to understand Table 3-2. It appears that available supplies are reduced by significantly more than 50% over a 50-yr period.	Y	Additional language explaining and clarifying the supply as added to Chapter 3.

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Myron Hess, Mary Kelly, Ken Kramer	The text on page 87 indicates that Figure 3-5 corresponds to Table 3-2. However, it appears that Figure 3-5 actually corresponds to Table 3-1 because it presents information about total amount in storage rather than annual availability amounts.	Y	Figure 3-5 does correspond to Table 3-1 and wa:
Myron Hess, Mary Kelly, Ken Kramer	The bar charts in Figure 3-4 don't correspond with the numbers in Table 3-1.	Y	Corrected.
Myron Hess, Mary Kelly, Ken Kramer	Additional explanation is needed regarding discussion of conservation savings included in projected water demands. Explain why plumbing fixture savings were included only for projected growth. See letter for detailed comment.	Y	The PWPG determined that future municipal plumbing (attributable to new growth and not have such a dramatic im users. Conservation savings language has been mod
Myron Hess, Mary Kelly, Ken Kramer	Include more specific information about the actual amount of assumed conservation savings and how that savings relates to savings from efficient plumbing fixtures.	N	Appendix __ contains detailed application of conservation : future projections.
Myron Hess, Mary Kelly, Ken Kramer	Region A should adopt a water conservation goal similar to that of Region L. (1% per capita water use reduction per year until 140 gpcd goal is reached, then 0.25% per year)	Y	Conservation is recognized by the PWPG as the most co Chapter 4 and 5 have been modified to reflect the group's s goals to reduce demand in future c
Myron Hess, Mary Kelly, Ken Kramer	Provide discussion about the potential for manufacturing reuse to affect environmental flows.	Y	Language has been added to the plan to reflect local consc reuse projects.
Myron Hess, Mary Kelly, Ken Kramer	Wastewater flows from Borger should be provided along with discussion about impacts of those flows no longer being available.	Y	The city of Borger recognizes the importance of maintaini flows to provide for environmental benefits. The plan inc consideration.
Myron Hess, Mary Kelly, Ken Kramer	NWF, ED, and the Sierra Club strongly support the RWPG's call for improved irrigation water efficiency.	N	No action required.
Myron Hess, Mary Kelly, Ken Kramer	Consider clear language encouraging GCDs and other entities to take all reasonable measures to reduce pumping. (Section 4.9.8)	N	All regional GCD management plans are included in App district's rules and regulations regarding groundwater
Myron Hess, Mary Kelly, Ken Kramer	The caveats listed regarding interpretation of the socioeconomic impact analysis report are appreciated since this information is easily misinterpreted. (Section 4.14)	N	Comment noted
Myron Hess, Mary Kelly, Ken Kramer	Section 5.2.2 should discuss potential water quality issues that could result as water levels decline with increased pumping.	Y	Language from Appendix O was included to address water
Myron Hess, Mary Kelly, Ken Kramer	Section 6.1 should include a discussion about future reductions due to conservation savings in order to demonstrate compliance with requirements to evaluate water conservation as a WMS.	Y	Future conservation reductions have been added to the pla the implementation of conservation :
Myron Hess, Mary Kelly, Ken Kramer	Figure 6-1 appears to only represent expected savings through accounting for the effects of the existing State Water-Efficient Plumbing Act. Labeling of the figure should be changed so that it is not misunderstood.	Y	Corrected.
Myron Hess, Mary Kelly, Ken Kramer	The planning group should consider strengthening the recommendations for municipal water conservation.	Y	Language has been added to strengthen the recommendati to implementation of conserva
Myron Hess, Mary Kelly, Ken Kramer	Section 6.2, last sentence, 3rd paragraph - Table 6-2 should be changed to Table 6-3.	Y	Corrected.
Myron Hess, Mary Kelly, Ken Kramer	Entries in Table 6-3 should be expanded. Each wholesale supplier who purchases water from entities listed in Table 6-3 should be added to the list because they are also required to develop water conservation plans.	N	Retail sales from regional water providers are limited to th entities' water conservation plans are includ
Myron Hess, Mary Kelly, Ken Kramer	Page 211- discussion regarding water conservation for industrial water users is extremely general. Additional information about consideration of the potential for industrial water conservation is needed.	N	Industrial demands during the second round of planning we level and tracking savings on individual entities is not fea: applied at the county level

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Myron Hess, Mary Kelly, Ken Kramer	Cross-reference to Table 4-8 on page 211 would be helpful.	Y	Corrected.
Myron Hess, Mary Kelly, Ken Kramer	The IPP does not include discussion about the amount of water use reduction to be achieved by drought contingency plans during drought conditions nor does it evaluate drought management as a water supply strategy for municipal or other water user groups.	N	Appendix C contains all the submitted regional water management plans. Each entity has a variety of recommended demand reduction strategies. Lower demand by 10-20%. Recommendations for demand reduction are included in the plan.
Myron Hess, Mary Kelly, Ken Kramer	Task 7, last sentence - the "1.25% of annual saturated thickness" standard does not actually provide for the "long-term sustainable management" of the aquifer.	N	The PWPG has determined a management policy to allow pumping to continue for 50 years. The group believes that external price incentives, will reduce pumping below even the record pumping rates.
Myron Hess, Mary Kelly, Ken Kramer	Chapter 7 is lacking in substance. It should include discussion on impacts of continued depletion on springflows and on natural resources dependent on those flows.	Y	Additional text has been added to Chapter 7 to describe springflow protection efforts, such as the Arkansas River Shiner and other efforts.
Myron Hess, Mary Kelly, Ken Kramer	Discussion of how water resource management might affect natural resources (including endangered species) is lacking.	Y	Additional text has been added to Chapter 7 to describe springflow protection efforts, such as the Arkansas River Shiner and other efforts.
Myron Hess, Mary Kelly, Ken Kramer	Task 8 - It would be beneficial if the planning group included information about the characteristics that resulted in TPWD's nomination of the 14 segments for consideration by the RWPG.	Y	Added TPWD criteria.
Myron Hess, Mary Kelly, Ken Kramer	The text should further explain the concept of creating a water conservation reserve program for irrigated acreage management.	N	The water conservation reserve program for irrigated acreage is being developed. Identifying water management strategies. However, impacts will be similar results when converting from irrigated to non-irrigated.
Myron Hess, Mary Kelly, Ken Kramer	Update TCEQ rules for the model conservation and drought contingency plans.	Y	New TAC guidelines have been downloaded and are in the TAC Guidelines)
William F. Mullican III	Level 1: Ensure that the data in the Plan is consistent with data in DB07.	Y	Corrected.
William F. Mullican III	Level 1: Include a summary of key findings and recommendations in the Executive Summary.	Y	Summary of key findings has been added to the Executive Summary.
William F. Mullican III	Level 1: Reconcile the quantity of water available from Lake Meredith with other tables in the report (Tables 3-13, 3-18, 3-19) and DB07.	N	Available water from Lake Meredith is consistent between tables. Meredith is the available supply out of Meredith for the Region A and Region O use this.
William F. Mullican III	Level 1: Chapter 1, Page 1-30, Paragraph 2, second sentence: The TWDB total projected municipal water demand is listed as 85,192 acre-feet in the year 2000 and 123, 857 acre-feet in the year 2060. Revise to reflect TWDB approved projections of 85,193 and 104,242 acre-feet respectively.	Y	Corrected.
William F. Mullican III	Level 1: Provide information on the Plan's impact to navigation in Chapter 1.	Y	No impacts on navigation have been noted.
William F. Mullican III	Level 1: Chapter 3, Page 118, Table 3-25: Include information on supplies for cities (not just those with projected shortages) in the text or tables of the report.	Y	Include information in Appendix A. Information will also be included in the tables.
William F. Mullican III	Level 1: Chapter 3, Include results of the evaluation of metering program data to better define Ogallala groundwater availability.	Y	Appendix U has now been updated with the results of the metering program. Please refer to the Senate Bill 2-Region A Task 3 Analysis.
William F. Mullican III	Level 1: Chapter 3, Provide information on current water supplies for retail public utilities as appropriate.	Y	Information will be included in an appendix. File found in Tables and Sources.xls
William F. Mullican III	Level 1: Chapter 3, Tables 3-20 to 3-23. Include supplies and demands by river basins.	Y	Supplies/Demands split by basin in Tables 3-20 to 3-23.
William F. Mullican III	Level 1: Chapter 3, Section 3.3, Pages 107-109 and Chapter 4, Section 4.11, Pages 181-186. Report wholesale water provider demands by county and river basin.	Y	Corrected. All TWDB approved demands and supplies listed.
William F. Mullican III	Level 1: Chapter 3, Provide information on available groundwater supplies (by decade) for the Dockum Aquifer and "other" Aquifer as applicable.	Y	Corrected. Information from TWDB's 2003 report on the Dockum Aquifer in Chapter 3.

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William F. Mullican III	Level 1: Chapter 3, Tables 3-18 and 3-19. Is it not clear whether the run-of-river availability numbers as listed are the firm diversions produced by the approved WAM. The volume appears to be too large. Verify the availability using the approved WAM. Coordinate the results of the verification to TWDB staff.	Y	The availability numbers were obtained using the approved the total for both basins, the Canadian and Red River. Dr and coordinated with TWDI
William F. Mullican III	Level 1: Chapter 3. Report contractual and non-contractual obligations of WWPs.	N	All water right holders and recipients of water from WWP ha of the plan.
William F. Mullican III	Level 1: Chapter 3. Provide results of WAM run 8 and analysis of the impact of the ongoing drought on the applicable sources. Include information on the selected hydrological data set for Lake Meredith and Palo Duro Reservoir.	Y	Appendix V has been updated with the latest reports on the and the vulnerability of surface water sour
William F. Mullican III	Level 1: Chapter 3. Provide results of the vulnerability assessment of Lake Meredith and Palo Duro reservoirs.	Y	Appendix W has been updated with the latest reports on the and the vulnerability of surface water sour
William F. Mullican III	Level 1: Chapter 3. Provide results of review of previous hydrologic studies for Ute and Conchas reservoirs.	Y	Appendix V has been updated with the latest reports on the and the vulnerability of surface water sources in the reg summary of studies used to assess Ute and C
William F. Mullican III	Level 1: Chapter 4, Section 4.4 to 4.7. Include the amounts of water provided by each WMS and costs for strategy 4.7.2, Sherman County Mining.	N	Water management strategies for Mining shortages were i with costs evaluated for meeting the greatest demand in th expected to be delivered from each strategy are the amount
William F. Mullican III	Level 1: Chapter 4, Section 4.11.2. Recommend a WMS for the City of Amarillo to address the need of 4,184 acre-ft in 2060.	Y	The WMS strategy for Amarillo has been removed due to resulted in the elimination of the shortage fo
William F. Mullican III	Level 1: Chapter 4, Pages 133-134. Clarify if other water conservation measures were considered as WMS in addition to the 5 percent reduction and provide the percentage of savings attributed to each specific strategy that will make up the 5 percent savings. Explain and reference how costs were determined for the recommended water conservation strategy.	Y	Language was added to Chapter 4 further clarifying Re conservation efforts for municipal entities. Cost estimates Conservation Implementation Taskforce guideline
William F. Mullican III	Level 1: Chapter 4. Drought contingency must be recommended as a WMS for certain water user groups with a need and must be considered for all WUGs with a need. If not recommended, please provide reasons for not adopting drought management strategies for each WUG with a need.	Y	Drought contingency has been added as a strategy for all W further expand on advanced conservation has been include reference was made to Drought Management and Const PWPG.
William F. Mullican III	Level 1: Chapter 4, Pages 187-188. Please revise assumptions regarding the socioeconomic impacts of unmet water needs to reflect those specified in the socioeconomic impact analysis report, Section 1.3, pages 14 and 15.	Y	Statement included that refers readers to socioecon
William F. Mullican III	Level 1: Chapter 4, Table 4.2, pages 125-132. Ensure that water conservation WMS were considered for manufacturing water user groups with needs and clarify if conservation is recommended to meet manufacturing needs.	Y	Drought contingency has been added as a strategy for all W further expand on advanced conservation has been ir
William F. Mullican III	Level 1: Chapter 4, Pages 135-157. Provide information on water savings and costs for water conservation and drought contingency strategies for municipal WUGs.	Y	Cost estimates and methodology were added to Chapter 4 municipal WUGs.
William F. Mullican III	Level 1: Chapter 4. Describe how the Plan protects water contracts, option agreements, and special water resources.	Y	Corrected.
William F. Mullican III	Level 1: Chapter 4. Describe the process used to identify potentially feasible WMS approved by the RWPG.	Y	A narrative was added to explain the selection process usec WUGs with a shortage.
William F. Mullican III	Level 1: Chapter 6. Include the "specific factors" to be considered to initiate a drought response for irrigated agriculture and other entities in the region.	Y	Corrected.
William F. Mullican III	Level 2: Include a Table of Contents.	Y	A TOC has been generated and will be included in the
William F. Mullican III	Level 2: The phrase Senate Bill 1 is used to reference the 2001 Regional Water Plan. Consider using "2001 Regional Water Plan" instead of Senate Bill 1 for this reference.	Y	Addressed above.
William F. Mullican III	Level 2: Ensure that hard copies and electronic versions of the regional plan are the same. Use consistent page numbering.	Y	A new table of contents has been generated and all fina
William F. Mullican III	Level 2: Consider clarifying the map legend on Figure ES-1.	Y	Figure removed and clear figure ir

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William F. Mullican III	Level 2: Consider inserting a county location map in the Executive Summary.	Y	Inserted county map into Executive Summary
William F. Mullican III	Level 2: Consider inserting the appropriate demand plot in the Executive Summary (pg ES-31)	N	Demand plot is appropriate
William F. Mullican III	Level 2: Chapter 1, page 1-30, paragraph 2. Consider citing Table 1-10 (rather than Table 1-12) as the location of the TWDB municipal demand projections as presented in the report.	Y	Corrected.
William F. Mullican III	Level 2: Chapter 1, Section 1.5.2. Consider revising the Ogallala aquifer water quality information based on newer data (2004) available from the TWDB's groundwater database.	N	Water quality data was included through 2003 and a review of significant changes in data already presented
William F. Mullican III	Level 2: Chapter 1, page 16, Figure 1-6. Consider revising the map of groundwater conservation districts (Figure 1-6, page 16) to reflect the recently annexed Dallam County Underground Water Conservation District No. 1 into the North Plains GCD.	Y	Updated.
William F. Mullican III	Level 2: Chapter 1, Section 1.9. Consider revising the eighth reference by changing "Sangeeve" to "Sanjeev's"	Y	Changed.
William F. Mullican III	Level 2: Chapter 2. The sequence or report section reference number 2.2.3 is missing.	N	No change needed.
William F. Mullican III	Level 2: Chapter 3, Page 3-16, Table 3-12. Consider defining the values in the last column.	Y	Added (AFY).
William F. Mullican III	Level 2: Chapter 3, Tables 3-21 through 3-23. Review and revise the values for "Grand Total" rows in Table 3-21 through 3-23 as they appear to be high.	N	Reported as correct.
William F. Mullican III	Level 2: Tables 3-18 and 3-19. Elaborate on the titles and explanatory text for Tables 3-18 and 3-19 to clarify the differences reflected for regional supplies.	Y	Tables 3-18 and 3-19 were simplified and are now presented
William F. Mullican III	Level 2: Chapter 4, Table 4-2. Consider labeling Table 4.2 to clearly indicate the type (alternatives or selected) of WMS included.	Y	Table title updated to show that strategies detailed
William F. Mullican III	Level 2: Chapter 4, page 133, Section 4.3.2. Consider revising the report narrative to reflect that in the reductions in TWDB demands, plumbing fixture savings apply to projected growth and a level of natural replacement rate of older plumbing fixtures.	Y	Total cost for all water management strategies can be reduced
William F. Mullican III	Level 2: Chapter 4, Pages 173-174, last paragraph on page 173 and Table 4-8 on page 174. Consider indicating whether or not this data is a cost-benefit analysis and how it was used in evaluating WMS. If a cost-benefit analysis, please consider explaining in greater detail the methodology of the analysis and the use of the results by the RWPG. Present the detailed methodology for how the "DRI" values in Table 4-8 were developed.	N	Table 4-8 was not a cost-benefit analysis and was developed as a memorandum entitled, Water Management Strategies for Region A (21 Counties)
William F. Mullican III	Level 2: Task 4, pages 125-132, Table 4-2. Consider summarizing cost for all WMS in Table 4-2	Y	A summary of costs has been added
William F. Mullican III	Level 2: Table 4-6, page 172. Consider explaining the meaning of header "Goal for Adoption" to clarify what 100 percent means in this context.	N	Full implementation was assumed for each WMS and 100% strategy.
William F. Mullican III	Level 2: Appendix D, page D-1. Consider explaining the basis for using 15 percent unaccounted water in this table.		TWDB