

Appendix 10B
Agency Comments



TEXAS WATER DEVELOPMENT BOARD



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August 11, 2010

Mr. John Grant
Chairman, Region F Regional
Water Planning Group
c/o Colorado River Municipal Water District
Big Spring, Texas 79721-0869

Re: Texas Water Development Board Comments for the Region F Regional Water Planning Group Initially Prepared Plan, Contract No. 0904830865

Dear Mr. Grant:

Texas Water Development Board (TWDB) staff completed a review of the Initially Prepared Plan (IPP) submitted by June 1, 2010 on behalf of the Region F Regional Water Planning Group. The attached comments (Attachments A and B) follow this format:

- Level 1: Comments, questions, and online planning database revisions that must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements; and
- Level 2: Comments and suggestions for consideration that may improve the readability and overall understanding of the regional plan.

The TWDB's statutory requirement for review of potential interregional conflicts under Title 31, Texas Administrative Code (TAC) §357.14 will not be completed until submittal and review of adopted regional water plans.

Title 31, TAC, §357.11(b) requires the regional water planning group to consider timely agency and public comments. Section 357.10(a)(3) of the TAC requires the final adopted plan include summaries of all timely written and oral comments received, along with a response explaining any resulting revision or why changes are not warranted.

Our Mission

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

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Mr. John Grant
August 11, 2010
Page 2

Copies of TWDB's Level 1 and 2 written comments and the region's responses must be included in the final, adopted regional water plan.

If you have any questions, please do not hesitate to contact David Meesey of my staff at (512) 936-0852.

Sincerely,

A handwritten signature in cursive script, appearing to read "C. Brittin".

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

CLB/DH/MN/TM/ao

Attachments(s)

c w/att: Ms. Simone Kiel, Freese and Nichols, Inc.

TWDB Comments on Initially Prepared 2011 Region F Regional Water Plan

LEVEL 1. Comments and questions must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements.

Executive Summary

1. Page ES-8, Section ES.3.2, line 2: "...to develop approximately 243,000 acre-feet per year of additional supplies by 2060..." does not reconcile with total water management strategy supply volume of 254,754 acft/yr presented on page ES-9, Table ES-1 or total water management strategy volume of 194,710 acft/yr presented in Table 4.10-1. Please revise as appropriate.
2. Page ES-8, Section ES.3.2, line 11; page ES-9, paragraph 1; and page ES-10 Figure ES-5: the total Region F water supply (current supplies with all water management strategies in year 2060) shown as 806,000 acft/yr does not reconcile with the sum of current water user group supply (610,000 acft/yr) and recommended water management strategy supply total (either 194,710 acft/yr, from Table 4.10-1; or 254,754 acft/yr, from Table ES-1), which would total either 804,710 acft/yr or 864,754 acft/yr, respectively. Please revise to reconcile these totals throughout the plan as appropriate.
3. Page ES-9, Table ES-1: "Desalination" year 2060 water management strategy volume of 16,050 acft/yr and capital cost of \$424,148,000 do not reconcile with Table 4.10-1 summary of recommended water management strategies volume of 6,550 acft/yr and cost of \$6,717,000. Please revise as appropriate.
4. Page ES-9, Table ES-1: "New Groundwater" 2060 water management strategy volume of 32,152 acft/yr and capital cost of \$126,333,990 does not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 26,152 acft/yr and cost of \$174,573,000. Please revise as appropriate.
5. Page ES-9, Table ES-1: "Infrastructure Improvements" capital cost of \$24,776,979 does not reconcile with Table 4.10-1 summary of recommended water management strategy cost of \$6,091,979. Please revise as appropriate.
6. Page ES-9, Table ES-1: "Reuse" capital cost of \$150,460,000 does not reconcile with Table 4.10-1 summary of recommended water management strategy cost of \$2,158,000. Please revise as appropriate, throughout plan (e.g. Figure ES-5).
7. Page ES-9, Table ES-1 & Figure ES-4: "Subordination" 2060 water management strategy volume of 72,830 acft/yr does not reconcile with Table 4.10-1 summary of

recommended water management strategy volume of 33,486 acft/yr . Please revise as appropriate, throughout plan (e.g. Figure ES-5).

8. Page ES-9, Table ES-1: “Voluntary Redistribution” 2060 water management strategy volume of 28,158 acft/yr and capital cost of \$8,964,000 does not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 22,958 acft/yr and cost of \$0. Please revise as appropriate, throughout plan (e.g. Figure ES-5).
9. Page ES-9, Table ES-1: “Total” for All Recommended Water Management Strategies 2060 volume of 254,754 acft/yr and capital cost of \$827,377,639 do not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 194,710 acft/yr and cost of \$282,234,649. Please revise as appropriate, throughout plan (e.g. Figure ES-5).

Chapter 1

10. Please describe how the planning group explored opportunities and benefits of regional water supply facilities or providing regional management of regional facilities. [*Title 31 Texas Administrative Code (TAC) §357.5(e)(6)*]

Chapter 3

11. Please indicate whether any publicly available plans of major agricultural, municipal, manufacturing and commercial water users and any water management plans were considered. [*31 TAC §357.5(k)(1)(E) §357.5(k)(1)(F)*]
12. Page 3-4: Two of the groundwater sources listed in Table 3.1-1 and Appendix 3A appear to be the same, but are reference by different names, specifically Table 3.1-1 source “Pecos Valley” and Appendix 3A source “Cenozoic Pecos Alluvium”. Please revise as appropriate.
13. Page 3-39: Hords Creek Lake “...diversion of 2,260 acre-feet per year” does not reconcile with page 3-35, Table 3.2-1 diversion volume of 2,240 acft/yr . Please revise as appropriate throughout plan.
14. Page 3-42, Table 3.2-2: Table does not indicate to which information the footnote (c) applies. Please revise as appropriate.
15. Page 3-43, Table 3.2-3: Table header does not specify whether the “WAM Supplies” listed are ‘firm yield’ or ‘safe yield’. Please clarify in table.
16. Page 3-53, Table 3.5-1: CRMWD Ector County Well Field volume of 423 acft/yr for all decades does not reconcile with Appendix 3B volume of 440 acft/yr for all decades. Please revise as appropriate.

Chapter 4

17. It appears that total county ‘balance’ surpluses/shortages were calculated incorrectly throughout Chapter 4 tables by subtracting ‘Total Demand’ from ‘Total Supply’. Please clarify that these are not water ‘needs’ (e.g. with a footnote) or revise to reflect total subcategory and county-wide water needs as the sum of the individual needs of each water user group in the county; needs that are calculated based on each water user group’s own demands and supplies. [31 TAC §357.7(a)(4)(B)]
18. Page 4-2, last sentence: Indication that “On a water user group basis, the sum of the shortages is *over* 213,000 acre-feet per year in 2010...” does not reconcile with Table 4.1-1 year 2010 summation of shortages of 212,918acft/yr. Please revise as appropriate throughout plan.
19. Page 4-6, Table 4.1-1: Table incorrectly sums water ‘needs’ both horizontally (e.g. the Andrews County irrigation need of 12,875 acft/yr is apparently reduced to 12,818 acft/yr by incorrectly associating surplus water supplies from other water user groups that are not available to this water user group) and vertically (e.g. total needs for the region are presented as 183,933 acft/yr in 2010 whereas the correct net region total water needs in 2010 are 212,918 acft/yr). Please revise table to summarize and compile identified water needs appropriately.
20. Page 4-19, Table 4.2-3: Subordination water management strategy supply volume totals, by decade, in acft/yr of 43,303; 46,471; 29,394; 30,636; 30,877; 32,946) do not reconcile with Table 4.10-1 Subordination supply volume totals, by decade, in acft/yr of 43,890; 47,047; 29,961; 31,194; 31,427; 33,486. Please revise as appropriate.
21. Page 4-20, paragraph 1, line 6: All recommended water management strategies must indicate associated capital and annual costs. Please indicate whether the cost for the ‘Subordination’ water management strategy is zero or present any associated costs with the strategy.
22. Page 4-26, first sentence, last paragraph: Please reword text to clarify that implementation of Region F water municipal conservation provides water savings of 310 acft/yr rather than 509 acft/yr. This reconciles the strategy supply with the Appendix 4G, page 4G-1 value of 310 acft/yr for 2060 and reflects the fact that the remaining conservation savings appear to be associated with plumbing fixture savings that were embedded in the demand projections.
23. Page 4-28, Section 4.3.2, paragraph 1: 2010 and 2060 City of Ballinger water demands of 1,068 acft/yr and 1,337 acft/yr do not reconcile with Table 4.3.2 (page 4-29) values of 1,142 acft/yr and 1,329 acft/yr respectively. Please revise as appropriate.

24. Page 4-28, Section 4.3.2, paragraph 2: 2010 City of Ballinger water management strategy supply of 950 acft/yr does not reconcile with Table 4.3.2, page 4-29 value of 940 acft/yr and neither number reconciles with Appendix 4H, page 4H-3 tabular value of 917 acft/yr.
25. Page 4-29, Table 4.3-3: Table 'Comments' does not specify whether the "WAM yield" values listed are 'firm yield' or 'safe yield'. Please clarify.
26. Page 4-31: Section 'Voluntary Redistribution – Hords Creek Reservoir to Ballinger (220 acft/yr for 2040 through 2060) and MDWSC to Ballinger (600 acft/yr for 2010 through 2040)' water management strategies do not appear to be included in the Summary of Recommended water management strategies (supply and cost data) in Appendix 4H under the category 'Voluntary Redistribution' located on the fourth (unnumbered) page of Appendix 4H. Please revise as appropriate.

Appendices

27. Appendix 4D, page 48: It appears that the final water management strategy in Appendix D is not assigned to any particular water user group or wholesale water provider. Please clarify.
28. Appendices 4H/4I: Appendix 4H is labeled "Water User Group Summary Tables" but appears to include four tables including a Summary of Recommended Strategies, Summary of Alternative Strategies, List of Potentially Feasible Strategies, and Water User Group Summary Tables. Table of Contents refers to appendix 4I which is not labeled in the appendices section the contents of which appear to be included at the beginning of Appendix 4H. Please revise Table of Contents and appendices labels regarding 4H and 4I to clarify locations of contents.
29. (*Attachment B*) Comments on the online planning database (i.e. DB12) are herein being provided in spreadsheet format. These Level 1 comments are based on a direct comparison of the online planning database against the Initially Prepared Regional Water Plan document as submitted. The table only includes numbers that do not reconcile between the plan (left side of spreadsheet) and online database (right side of spreadsheet). An electronic version of this spreadsheet will be provided upon request.

LEVEL 2. Comments and suggestions that might be considered to clarify or enhance the plan.

General Comment

1. Header on each page indicating “IPP Volume I” suggests that there may be another volume associated with plan. Please consider clarifying in header and/or Table of Contents and throughout plan (e.g. pages 1-64, 3-44, 4-24), if appropriate in the final adopted plan.

Chapter 4

2. Chapter 4: There is no reference in the Chapter 4 text to the associated Appendix 4F – Strategy Evaluation Matrix and Quantified Environmental Impact Matrix. Please consider including a reference in Chapter 4 directing readers to this data.

ATTACHMENT B

REGION F				Non-matching numbers													
Region IPP	Item	IPP document reference:		IPP document number						Online Planning Database (DB12) number							
		Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040	2050	2060
		F	Colorado River Municipal Water District Total Demands	2-28	2.4-1		90,712	93,131	75,243	75,629	75,199	76,144		89,212	91,631	73,743	74,129
F	Brown County Water Improvement District #1 Total Demands	2-29	2.4-2		14,929	15,053	15,036	14,949	14,941	15,007		15,085	15,210	15,192	15,105	15,097	15,163
F	City of San Angelo Total Demands	2-31	2.4-6					52,634	53,196	53,746					52,586	52,953	53,265
F	Andrews Co. Pecos Valley Rio Grande	3-4	3.1-1	1,189								191	191	191	192	192	192
F	Andrews Co. Dockum Colorado	3-4	3.1-1	905								22	22	22	22	22	22
F	Andrews Co. Dockum Rio Grande	3-4	3.1-1	5,792								NA	NA	NA	NA	NA	NA
F	Andrews Co. Ogallala Colorado	3-4	3.1-1	31,279								24,886	24,886	24,886	25,373	25,363	25,350
F	Andrews Co. Ogallala Rio Grande	3-4	3.1-1	4,333								NA	NA	NA	NA	NA	NA
F	Andrews Co. Eds-Trinity Colorado	3-4	3.1-1	4,640								25	25	25	25	25	25
F	Groundwater Supply -Brown-Trinity Aquifer	3-4	3.1-1	2,045								2,085					
F	Groundwater Supply -Coleman-Ellenberger-San Saba	3-4	3.1-1									179					
F	Groundwater Supply -Crane-Other Aquifer	3-4	3.1-1	NA								81					
F	Ector-Pecos Valley	3-4	3.1-1	2,904								3,143					
F	Irion - Dockum	3-4	3.1-1									928					
F	Mitchell-Other Aquifer	3-4	3.1-1	NA								2					
F	Pecos-Capitan Reef	3-4	3.1-1	34,000								NA					
F	Pecos-Rustler Aquifer (db12)	3-4	3.1-1	NA								1,389					
F	Pecos Other Aquifer (db12)	3-4	3.1-1	NA								5					
F	Reeves-Rustler Aquifer (db12)	3-4	3.1-1	NA								103					
F	Runnels- db12 Other Aquifer	3-4	3.1-1	NA								2,656					
F	Scurry-db12 -Other Aquifer	3-4	3.1-1	NA								314					
F	Sterling-Other Aquifer (db12)	3-4	3.1-1	NA								997					
F	Winkler- Dockum Aquifer	3-4	3.1-1	10,746								10,748					
F	Groundwater Supplies in Region F	3-6	3.1-1		NA	NA	NA	NA	NA	1,170,823		1,157,501	1,157,508	1,157,504	1,157,491	1,157,468	1,157,453
F	Currently Available Supplies to WUGs/Co- Brown	3-51	3.4-1		21,694	21,784	21,787	21,752	21,764	21,821		21,750	21,840	21,843	21,808	21,820	21,877
F	Coke	3-51	3.4-1		2,094	2,072	2,345	2,307	2,288	2,253		2,228	2,181	2,411	2,401	2,372	2,327
F	Coleman	3-51	3.4-1		2,906	2,891	2,888	2,886	2,885	2,881		2,806	2,791	2,788	2,786	2,785	2,781
F	Concho	3-51	3.4-1		7,001	6,994	7,032	7,021	6,909	6,909		7,035	7,172	7,191	7,185	7,129	7,129
F	Ector	3-51	3.4-1		48,121	44,770	53,358	54,244	55,272	55,908		48,048	44,677	53,197	54,079	55,110	55,455
F	McCulloch	3-51	3.4-1		9,644	9,737	9,889	9,941	9,790	9,889		9,449	9,530	9,641	9,708	9,665	9,764
F	Runnels	3-51	3.4-1		4,854	4,859	4,899	4,899	4,825	4,556		4,953	4,948	5,102	5,090	4,701	4,732
F	Tom Green	3-51	3.4-1		74,516	74,295	74,186	73,972				74,429	74,207	74,041	73,822		
F	Total Supply to Water Users	3-51	3.4-1		619,575	615,264	615,446	611,147	610,509	609,822		619,443	615,208	615,315	611,004	610,358	609,670
F	Andrews Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		560	560	560	560	560	560
F	Concho Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		80	220	220	220	220	220
F	Ector Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		3,000	3,150	3,300	3,450	3,600	3,750
F	Midland Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		5,987	5,987	5,987	5,987	5,987	5,987
F	Runnels Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		218	218	218	218	218	218
F	Tom Green Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		8,500	8,500	8,500	8,500	8,500	8,500
F	Ward Co. Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		670	670	670	670	670	670
F	Total Direct Reuse	NA	NA	NA	NA	NA	NA	NA	NA	NA		19,015	19,305	19,455	19,605	19,755	19,905
F	Currently Available Supply - WWP- Brown Co WID #1	3-53	3.5-1		29,712	29,712	29,712	29,712	29,712	29,712		29,868	29,868	29,868	29,868	29,868	29,868
F	***CRMWD-Ector Co Well Field	3-53	3.5-1		423	423	423	423	423	423		440	440	440	440	440	440
F	***CRMWD-Lake Ivie	3-53	3.5-1		66,350	65,000	636,520	63,000	60,950	59,600		66,874	65,524	64,018	62,676	61,336	60,006
F	***EV Spense	3-53	3.5-1		560	560	560	560	560	560		34	34	34	34	34	34
F	***City of Odessa - Ward Co Field	3-53	3.5-1		4,800	NA	NA	NA	NA	NA		4,800					
F	*** City of Odessa-CRMWD System	3-53	3.5-1		13,439	13,191	20,793	20,778	21,177	21,047		14,139	13,691	21,388	20,978	21,277	21,047
F	***-University Lands- Midland Paul Davis Well Field	3-53	3.5-1		4,722	4,722	4,722					NA	NA	NA	NA	NA	NA
F	*** University Lands- City of Andrews Well Field	3-53	3.5-1		671	708	730					1,908	1,945	1,967	0	0	0
F	Andrews County Total Needs	4-6	4.1-1		(12,818)							(12,875)					
F	Borden County Total Needs	4-6	4.1-1		(1,520)							(1,847)					
F	Brown County Total Needs	4-6	4.1-1		(2,369)							(3,006)					
F	Coke County Municipal Needs	4-6	4.1-1		(111)							(116)					
F	Coke County Total Needs	4-6	4.1-1		(870)							(875)					
F	Coleman County Municipal Needs	4-6	4.1-1		(359)							(1,304)					
F	Coleman County Total Needs	4-6	4.1-1		(1,730)							(2,675)					
F	Concho County Municipal Needs	4-6	4.1-1		122							(4)					
F	Concho County Total Needs	4-6	4.1-1		1,090							(4)					
F	Ector County Total Needs	4-6	4.1-1		(5,508)							(5,694)					
F	Howard County Municipal Needs	4-6	4.1-1		(1,350)							(1,394)					
F	Howard County Total Needs	4-6	4.1-1		(1,864)							(1,971)					

REGION F			Non-matching numbers														
Region IPP	Item	IPP document reference:		IPP document number						Online Planning Database (DB12) number							
		Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040	2050	2060
F	McCulloch County Municipal Needs	4-8	4.1-3							(960)							(1,038)
F	McCulloch County Total Needs	4-8	4.1-3							2,494							(1,038)
F	Mitchell County Total Needs	4-8	4.1-3							(3,707)							(4,140)
F	Reagan County Total Needs	4-8	4.1-3							(8,386)							(8,393)
F	Reeves County Total Needs	4-8	4.1-3							(31,829)							(31,847)
F	Scurry County Total Needs	4-8	4.1-3							951							(348)
F	Tom Green County Municipal Needs	4-8	4.1-3							(11,321)							(11,633)
F	Tom Green County Total Needs	4-8	4.1-3							(62,004)							(62,367)
F	Upton County Irrigation Needs	4-8	4.1-3							(9,495)							(9,539)
F	Upton County Total Needs	4-8	4.1-3							(9,030)							(9,539)
F	Region F Total Irrigation Needs	4-8	4.1-3							(241,535)							(166,120)
F	Region F Total Mining Needs	4-8	4.1-3							1,875							(375)
F	Region F Total Municipal Needs	4-8	4.1-3							(39,963)							(49,636)
F	Region F Total Needs	4-8	4.1-3							(205,321)							(241,856)
F	Colorado River Municipal Water District Needs	4-9	4.1-4	(16,227)	(25,196)	(8,658)	(10,394)	(11,314)		(13,609)	(14,729)	(23,698)	(8,138)	(9,242)	(9,954)	(12,229)	
F	City of Odessa Needs	4-9	4.1-4	(4,488)	(10,176)	(4,118)	(5,215)	(6,085)			(3,788)	(10,216)	(3,523)	(5,015)	(5,985)		
F	City of San Angelo Needs	4-9	4.1-4				(33,188)	(33,973)						(33,140)	(33,730)		(34,265)
F	Colorado River Municipal Water District Needs	NA	Appendix 3B	(16,227)	(25,196)	(8,658)	(10,394)	(11,314)		(13,609)	(14,729)	(23,698)	(8,138)	(9,242)	(9,954)	(12,229)	
F	City of Odessa Needs	NA	Appendix 3B	(4,488)	(10,176)	(4,118)	(5,215)	(6,085)			(3,788)	(10,216)	(3,523)	(5,015)	(5,985)		
F	Subordination -Coleman - Coleman Co - Lake Coleman	4-18	4.2-3	2,063	2,075	2,080	2,087	2,089	2,091		1,650	1,651	1,647	1,645	1,639	1,631	
F	Subordination -Manufacturing-Ector Co - CRMWD	4-18	4.2-3	66	149	3	46	86	158		366	449	108	396	386	408	
F	Subordination -Manufacturing-Kimble Co - Llano River not listed in	4-18	4.2-3	NA	NA	NA	NA	NA	NA		1,000	1,000	1,000	1,000	1,000	1,000	
F	Subordination -Miles - Runnels Co - OC Fisher Reservoir	4-19	4.2-3	100	100	100	100	100	100		140	153	163	173	183	193	
F	Subordination -Snyder - Scurry Co - CRMWD	4-19	4.2-3	511							513						
F	Subordination -Total	4-19	4.2-3	43,303	46,471	29,394	30,636	30,877	32,946		43,889	47,044	29,902	31,374	31,810	33,829	
F	Ballinger - Subordination-Ballinger	4-29 , 4-30 & 4-41	4.3-3 , 4.3-4 & 4.3-8	940													917
F	Ballinger - Subordination of downstream rights to CRMWD is not listed in DB12	4-41	4.3-8	343	356	227	243	0	0		NA	NA	NA	NA	NA	NA	NA
F	Ballinger - CRMWD System not listed in DB12	4-41	4.3-8	257	244	373	357	0	0		NA	NA	NA	NA	NA	NA	NA
F	Winters - Subordination	4-43	4.3-11	720							552						591
F	Reuse Cost	4-48	4.3-14							258,000							69,960
F	Subordination to Lake Winters	4-48	4.3-14	720	710	700	800	680	670		552	561	566	571	575	591	
F	Winters WMS Totals	4-48	4.3-14	720	710	700	800	790	780		552	561	566	571	575	591	
F	City of Winters Cost for Reuse	4-48	4.3-15							258,000							69,960
F	Bronte - Rehabilitation of Pipeline	4-52	4.3-18	0	0	0	0	0	0		129	129	129	129	129	129	
F	City of Bronte Cost for Rehab of Oak Creek pipeline	4-56	4.3-21	1,238,600	21,600	21,600					1,955,000						
F	Robert Lee - Direct Reuse WMS	4-60	4.3-23	2,158,000							na						
F	Robert Lee - Brush Control Cost - not listed in IPP	4-68	4.3-30	NA	NA	NA	NA	NA	NA		114,070	19,000	19,000	19,000	19,000	19,000	19,000
F	City of Menard Conservation Cost	4-71	4.3-32	8,755	13,526	13,146	12,776	12,414	12,190		2,183	7,018	6,993	6,982	6,961	6,951	
F	City of Menard Off Channel Reservoir	4-77	4.3-35	24,520,000							25,273,000						
F	City of Menard Conservation Cost	4-79	4.3-36	8,755	13,526	13,146	12,776	12,414	12,190		2,183	7,018	6,993	6,982	6,961	6,951	
F	City of Midland Develop Aquifer Supplies	4-82	4.3-39	468,507,000							168,507,000						
F	City of Midland Develop Aquifer Supplies	4-82	4.3-39					4,648,500	4,648,500						4,651,200	4,651,200	
F	Midland-Subordination-WMS Supply	4-87	4.3-41	4,656	6,113	-156	-266	-378	-490		4,505	6,055	0	0	0	0	
F	Midland-Voluntary Redistribution-Annual Cost	4-88	4.3-42			4,790,000	4,694,200	4,598,400	4,502,600				4,772,088	4,676,646	4,581,204	4,485,763	
F	Midland-Annual Cost Totals	4-88	4.3-42			24,646,538	24,570,877	9,738,961	9,635,997				24,628,619	24,523,323	9,724,465	9,621,750	
F	City of Midland Redistribution	4-88	4.3-42			4,790,000	4,694,200	4,598,400	4,502,600								
F	Coleman-Subordination WMS Supply	4-93	4.3-46	2,200	2,200	2,200	2,200	2,200	2,200		2,030	2,031	2,027	2,025	2,019	2,011	
F	Brady-Subordination WMS Supply	4-98	4.3-52	1,350	1,350	1,350	1,350	1,350	1,350		2,170	2,170	2,170	2,170	2,170	2,170	
F	City of Eden Cost for replacment wells	4-106	4.3-55	1,800,000							1,367,372						
F	City of Eden Cost for Advanced Treatment	4-109	4.3-57	2,582,000							4,382,000						
F	City of Eden -Cost of Recommended Strategies for Hickory Aquifer	4-121	4.3-65	1,367,372							na						
F	Richland SUD-Cost of Recommended Strategies for Hickory Aquifer	4-121	4.3-65	977,829	308,311	308,311	384,361	384,361	384,361	384,361	1,703,979.00	234,154.37	234,154.37	86,154.37	86,154.37	86,154.37	86,154.37
F	City of Melvin - Cost of Recommended Strategies for Hickory Aquifer	4-121	4.3-65	325,139	102,392	102,392	102,392	102,392	102,392	102,392	na	na	na	na	na	na	na
F	Live Oak Hills Subdivision -Cost of Recommended Strategies for Hickory Aquifer	4-121	4.3-65	88,804	288,819	288,819	288,819	288,819	288,819	288,819	na	na	na	na	na	na	na
F	Kimble Co Manufacturing Cost not listed in IPP	4-129		NA	NA	NA	NA	NA	NA		0	0	0	0	0	0	
F	Iron Co Irrigation Conservation WMS Supply	4-144	4.6-5		36								37				
F	Scurry Co Irrigation Conservation WMS Supply	4-144	4.6-5		572								571				
F	Sterling Co Irrigation Conservation WMS Supply	4-144	4.6-5		44								45				
F	Tom Green Co Irrigation Conservation WMS Supply	4-144	4.6-5		5,690								5,774				
F	Winkler Co Irrigation Conservation WMS Supply	4-144	4.6-5		195								194				

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F	Costs for Roberts Co Area	4-163	4.8-8	768,821,000							na						
F	City of Snyder-Potential Water Conservation Summary	4-165	4.8-9		\$56,052.00	\$61,357	\$59,809.00	\$57,823.00	\$55,694.00	\$25,000.00		13,976.00	18,898.00	18,973.00	19,026.00	18,969.00	18,901.00
F	CRMWD-Cost for Supplemental Well	4-171	4.8-14	522,000							na						
F	Colorado River Municipal Water District Cost for Desalination	4-170	4.8-13	119,617,000							131,603,990						
F	Colorado River Municipal Water District Cost for new well field	4-173	4.8-16	73,994,000			8,460,000	8,460,000	8,460,000	2,009,000	76,268,000			8,666,000	8,666,000	2,017,000	2,017,000
F	University Lands Contract	4-173	4.8-16			847,000	847,000	65,000	65,000	65,000							
F	Colorado River Municipal Water District Cost for Desalination	4-173	4.8-16	119,617,000				6,340,378	6,340,378	6,340,378	131,603,990				13,721,167	2,384,500	2,384,500
F	Supplemental Wells	4-173	4.8-16	12,528,000		200,000	400,000	416,000	432,000	448,000							
F	City of San Angelo Cost for Ultimate Capacity Desalination	4-182	4.8-20	40,424,000													
F	City of San Angelo McCulloch Co Well Field Cost	4-184	4.8-21	157,126,000							173,307,000						
F	Irrigation Sutton Co. Cost (summed incorrectly)	NA	4.10-1	164,160							194,940						
F	CRMWD Reuse cost	NA	4.10-2	148,302,000							128,748,000						
F	CRMWD Supplemental Wells cost	NA	4.10-2	12,528,000													
F	CRMWD Desalination cost	NA	4.10-2	119,616,990							131,603,990						
F	CRMWD Total cost	NA	4.10-2	365,678,990							345,583,990						
F	San Angelo-Subordination WMS Supply	4-191	4.8-25		11,791	11,472	11,153	10,835	10,516	10,196		16,189	15,766	15,344	14,922	14,230	14,077
F	Bronte - Rehabilitation of Pipeline Supply	4-206	4.10-1		0	0	0	0	0	0		129	129	129	129	129	129
F	Robert Lee-New WTP and Storage Facilities WMS Supply not listed	4-206	4.10-1		0	0	0	0	0	0		200	200	200	200	200	200
F	Coke County Total	4-206	4.10-1		680	727	514	612	712	847		1,009	1,056	843	941	1,041	1,176
F	Coleman - Coleman Co - Conservation WMS	4-206	4.10-1		50	109	141	163	181	187		33	75	90	95	101	107
F	Coleman Co WMS Total	4-206	4.10-1		3,597	3,645	3,668	3,681	3,691	3,687		3,980	3,611	3,617	3,613	3,611	3,607
F	Eden-Concho Co-Replacement Well not listed in IPP	4-206	4.10-1		NA	NA	NA	NA	NA	NA		322	322	322	322	322	322
F	Concho County Total	4-206	4.10-1		34	1,182	1,889	1,895	1,962	1,962		356	1,504	2,211	2,217	2,284	2,284
F	Ector Co Manufacturing-Reuse WMS is not listed in IPP	4-207	4.10-1		NA	NA	NA	NA	NA	NA		0	350	105	350	300	250
F	Ector Co Manufacturing-Subordination WMS	4-207	4.10-1		66	149	3	46	86	158		366	449	108	396	385	408
F	Odessa-Ector Co-Reuse	4-207	4.10-1		0	4,293	4,273	7,262	4,258	4,256		0	3,943	4,168	3,912	3,958	4,006
F	Odessa-Ector Co-Conservation	4-207	4.10-1		540	1,168	1,488	1,657	1,854	2,074		551	1,200	1,536	1,715	1,920	2,149
F	Odessa-Ector Co-Voluntary Redistribution	4-207	4.10-1					10,507	10,502	10,498					4,708	4,708	4,708
F	Odessa-Ector Co-Voluntary Redistribution (Develop Aquifer + New/)	4-207	4.10-1			4,708		10,507	10,502	10,498			4,800	10,800	10,800	10,800	10,800
F	Ector County Total	4-207	4.10-1		5,425	16,809	11,057	18,225	19,403	21,297		5,725	17,109	16,962	18,575	19,703	21,547
F	Richland SUE-Bottled Water Program WMS Supply	4-208	4.10-1		0	0	0	0	0	0		1	1	1	1	1	1
F	Richland SUE-Infrastructure Improvement WMS Supply	4-208	4.10-1		0	0	0	0	0	0		113	113	113	113	113	113
F	McCulloch County Total	4-208	4.10-1		2,314	2,640	2,779	2,880	2,937	2,946		2,428	2,754	2,893	2,914	3,051	3,060
F	Midland Subordination-WMS Supply (CRMWD)	4-208	4.10-1		4,488	6,055	0	0	0	0		4,488	6,152	211	324	438	553
F	Midland County Total	4-208	4.10-1			16,158	35,719	35,864	35,793	35,751			16,255	36,130	36,188	36,231	36,304
F	Ballinger-Runnels Co-Subordination-CRMWD-not listed in DB12	4-209	4.10-1		343	356	227	243	0	0			NA	NA	NA	NA	NA
F	Miles-Runnels Co-Subordination	4-209	4.10-1		100	100	100	100	100	100		140	153	163	173	183	193
F	Runnels Co Total	4-209	4.10-1		2,402	2,487	2,315	2,421	2,813	2,806		2,099	2,184	2,151	2,251	2,896	2,899
F	Snyder-Scurry Co-Subordination	4-209	4.10-1		511							513					
F	Scurry County Total	4-209	4.10-1		635							637					
F	Sterling Co Irrigation Conservation WMS Supply	4-209	4.10-1					90	91	92					89	89	89
F	San Angelo-Tom Green Co-Infrastructure Improvement WMS	4-209	4.10-1		2,274	2,261	2,247	2,233	2,220	2,206		2,308	2,295	2,281	2,267	2,254	2,240
F	Tom Green Co Total	4-209	4.10-1		27,490	40,555	49,411	56,711	56,340	56,289		27,524	40,589	49,445	56,745	56,374	56,323
F	Conservation WMS Total	4-209	4.10-1		3,214	43,147	80,602	81,210	81,851	82,506		3,197	43,133	80,551	81,141	81,769	82,423
F	Subordination WMS Total	4-209	4.10-1		43,890	47,047	29,961	31,194	31,427	33,486		43,889	47,341	30,113	31,698	32,248	34,382
F	Bottled Water Program WMS Total	4-209	4.10-1		0	0	0	0	0	0		1	1	1	1	1	1
F	Infrastructure Improvement WMS Total	4-209	4.10-1		2,274	2,261	2,247	2,233	2,220	2,206		2,437	2,424	2,410	2,396	2,383	2,369
F	Total for All Strategies	4-209	4.10-1		58,494	127,208	174,442	190,499	192,234	194,710		59,275	128,067	181,342	191,733	193,772	196,322
F	CRMWD-Renew Contract WMS	4-210	4.10-1		0	5,200	5,200	5,200	5,200	5,200		392	5,622	15,629	15,430	16,119	15,932
F	CRMWD-Subordination WMS Supply	4-210	4.10-1		48,027	47,133	46,240	45,347	44,453	43,560		47,618	46,823	36,022	35,443	33,975	33,381
F	CRMWD Total	4-210	4.10-1		48,027	64,713	69,810	78,427	77,533	76,640		48,010	64,811	70,031	78,753	77,974	77,193
F	University Lands - New/Renew Water Supply Contract	4-210	4.10-1		NA	NA	NA	NA	NA	NA		0	5,200	5,200	5,950	5,960	5,973
F	WWP WMS Totals	4-210	4.10-1		66,473	89,537	97,622	113,506	112,021	111,076		84,954	125,541	133,699	151,761	151,521	152,545
F	San Angelo-WWP	4-211	4.10-2	254,904,000							na						
F	Brown C-O Brownwood Lake	App. 3A-3	App 3A		229	230	223	214	211	211		385	385	379	370	367	367
F	Brown Co. Zephyr WSC Brownwood Lake	App. 3A-4	App 3A		616	616	616	616	616	616		516	516	516	516	516	516
F	Coke Co. Bronte Village Other Aquifer	App. 3A-4	App 3A		116	129	125	121	120	120		250	238	226	215	204	194
F	Coleman Co. Santa Anna Brownwood Lake	App. 3A-7	App 3A		307	307	307	307	307	307		207	207	207	207	207	207
F	Concho Co. Eden Direct Reuse	App. 3A-8	App 3A		-	-	-	-	-	-		80	220	220	220	220	220
F	Concho Co. Millersville-Doole WSC CRMWD	App. 3A-8	App 3A		92	85	123	112	-	-		46	43	62	56	-	-
F	Ector Co. Mtg Colorado Basin CRMWD	App. 3A-12	App 3A		177	297	604	702	771	813		877	797	1,199	902	871	813

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F	Ector Co. Odessa CRMWD	App. 3A-12	App 3A		11,949	11,350	17,464	17,158	17,354	17,159		11,176	10,757	16,708	16,793	17,092	17,006
F	McCulloch Co. Brady Hickory Aquifer	App. 3A-19	App 3A		1,009	1,009	1,009	1,009	1,009	1,009		884	884	884	884	884	884
F	McCulloch Co. Millersville-Doole WSC CRMWD	App. 3A-19	App 3A		161	164	238	216				91	82	119	108		
F	Runnels Co. Ballinger O.H. Ivie Lake	App. 3A-28	App 3A		-	-	-	-				257	244	373	357		
F	Runnels Co. Miles Other Aquifer	App. 3A-29	App 3A		134	134	134	134	134	134		10	10	10	10	10	10
F	Runnels Co. Millersville-Doole WSC CRMWD	App. 3A-29	App 3A		69	62	93	85				35	31	47	43		
F	Tom Green Co. Millersville-Doole WSC CRMWD	App. 3A-36	App 3A		174	176	290	300				87	88	145	150		
F	Brown County WID Brownwood Lake	NA	App 3B		29,712	29,712	29,712	29,712	29,712	29,712		29,644	29,641	29,648	29,505	29,016	28,525
F	CRMWD Total Current Supply	NA	App 3B		74,485	67,935	66,585	65,235	63,885	62,535		74,468	67,918	66,568	65,218	63,868	62,518
F	Ballinger cost for reuse	2 of 48	appendix 4D		2,567,000	324,000						-	-				
F	Big Spring cost for reuse	6 of 48	appendix 4D		9,911,000	1,529,000						-	-				
F	Bronte cost for rehab of Oak Creek Pipeline	8 of 48	appendix 4D		34,100							-	-				
F	CRMWD cost for Southwest Pecos Co to Odessa	11 of 48	appendix 4D		183,321,000	22,279,000						-	-				
F	City of Eden Cost for Advanced Treatment	18 of 48	appendix 4D		2,582,000							4,382,000					
F	City of Eden Cost for replacment wells	19 of 48	appendix 4D		1,800,000							1,367,372					
F	City of Eden Cost for Bottled Water program	20 of 48	appendix 4D			24,000						38,566	38,566	38,566	38,566	38,566	38,566
F	Cost of Odessa-Midland Reuse	28 of 48	appendix 4D		109,194,000	13,272,000						-	-				
F	Robert Lee cost of new groundwater from Alluvium	35 of 48	appendix 4D			157,000						396,500	396,500	25,950	25,950	25,950	25,950
F	San Angelo cost of Desal	37 of 48	appendix 4D			9,223,930									2,648,800	2,648,800	13,721,167
F	San Angelo cost of Desal phase II	38 of 48	appendix 4D		40,327,000	12,039,500						-	-				
F	Snyder Cost for reuse	47 of 48	appendix 4D		9,643,000	1,104,000						-	-				
F	Irrigation Costs for Irion Co.	2 of 6	appendix 4E										91,536				
F	Irrigation Costs for Mitchell Co.	4 of 6	appendix 4E			185,113							285,113				
F	Irrigation Costs for Ward Co.	6 of 6	appendix 4E				31,803							121,803			
F	CRMWD cost for reuse	appendix 4H	Summary of Rec. Strategies		148,302,000							128,748,000					
F	CRMWD Supplemental Wells cost	appendix 4H	Summary of Rec. Strategies		12,528,000												
F	Bottle Water Program (McCulloch C-O) WMS Supply	Appendix4H	Summary		0	0	0	0	0	0		0	0	0	0	0	0
F	Bottle Water Program Richland SUD) WMS Supply	Appendix4H	Summary		0	0	0	0	0	0		1	1	1	1	1	1
F	New Infrastructure Improvement - Bronte WMS Supply	Appendix4H	Summary		0	0	0	0	0	0		129	129	129	129	129	129
F	New Infrastructure Improvement - San Angelo WMS Supply	Appendix4H	Summary		2,274	2,261	2,247	2,233	2,220	2,206		2,308	2,295	2,281	2,267	2,254	2,240
F	Reuse-Odessa (Ector Co.) - WMS Supply	Appendix4H	Summary			4,293	4,273	4,262	4,258	4,256			3,943	4,168	3,912	3,958	4,006
F	Reuse-Manufacturing(Ector Co.) WMS Supply	Appendix4H	Summary			NA	NA	NA	NA	NA			350	105	350	300	250
F	Subordination-Coleman(Coleman Co.) WMS Supply	Appendix4H	Summary		1,650	1,651	1,647	1,645	1,639	1,631		2,030	2,031	2,027	2,025	2,019	2,011
F	Subordination-Manufacturing (Ector Co.) WMS Supply	Appendix4H	Summary		66	149	3	46	86	158		366	449	108	396	386	408
F	Subordination-Midland (Midland Co) WMS Supply	Appendix4H	Summary		4,488	6,055	0	0	0	0		4,505	6,055	0	0	0	0
F	Subordination-Midland (Midland Co) WMS Supply	Appendix4H	Summary		17	-97	-211	-324	-438	-553		NA	NA	NA	NA	NA	NA
F	Subordination-Miles-Runnels Co-WMS Supply	Appendix4H	Summary		100	100	100	100	100	100		140	153	163	173	183	193
F	Subordination-Snyder-Scurry Co-WMS Supply	Appendix4H	Summary		511							513					
F	Subordination-CRMWD WMS Supply	Appendix4H	Summary		35,166	30,548	46,240	43,696	41,857	38,746		47,618	46,809	36,022	35,443	33,975	33,381
F	Voluntary Redistribution - CRMWD WMS Supply	Appendix4H	Summary		0	5,200	5,200	5,200	5,200	5,200		992	5,622	15,629	15,430	16,119	15,932
F	Ballinger-Subordination-CRMWD-not listed in DB12	Appendix4H	1 of 99		141	169	68	115	0	0		NA	NA	NA	NA	NA	NA
F	Ballinger WMS Total	Appendix4H	1 of 99		1,091	1,187	1,095	1,144	1,524	1,542		950	1,018	1,027	1,029	1,631	1,634
F	Ballinger Alternative WMS Supply - Direct Reuse not listed in DB12	Appendix4H	1 of 99		220	220	220	220	220	220		NA	NA	NA	NA	NA	NA
F	Bronte - Rehabilitation of Pipeline WMS Supply	Appendix4H	5 of 99		0	0	0	0	0	0		129	129	129	129	129	129
F	Bronte WMS Total	Appendix4H	5 of 99		145	174	177	177	179	180		274	303	306	306	308	309
F	Coleman-Conservation WMS Supply	Appendix4H	6 of 99		50	109	141	163	181	187		33	75	90	95	101	107
F	Coleman-Subordination-Coleman Lake WMS Supply	Appendix4H	6 of 99		6,415	4,084	4,017	3,952	3,883	3,811		1,650	1,651	1,647	1,645	1,639	1,631
F	Coleman-Subordination-Hords Creek Lake WMS Supply	Appendix4H	6 of 99		647	643	640	637	633	630		380	380	380	380	380	380
F	Coleman-Total WMS Supply	Appendix4H	6 of 99		4,854	4,836	4,798	4,752	4,697	4,628		2,063	2,106	2,117	2,120	2,120	2,118
F	Runnels C-O Subordination (Winters Lake) WMS Supply	Appendix4H	20 of 99		114	89	69	49	31	0		23	0	0	0	0	0
F	Runnels C-O Subordination Ballinger Lake) WMS Supply	Appendix4H	20 of 99		23	0	0	0	0	0		114	89	69	49	31	0
F	Eden - New Hickory Well (Replacement Well in DB12) WMS Supply	Appendix4H	26 of 99		392	392	392	392	392	392		322	322	322	322	322	322
F	Eden - New Reverse Osmosis (Advanced Treatment in DB12) WMS Supply	Appendix4H	26 of 99		0	0	0	0	0	0		0	392	392	392	392	392
F	Eden - WMS Total	Appendix4H	26 of 99		392	392	392	392	392	392		322	714	714	714	714	714
F	Menard-Alternative WMS-Aquifer Storage Recovery WMS Supply	Appendix4H	31 of 99		0	0						240	240				
F	Menard-Alternative WMS-Off Channel Reservoir not listed in IPP	Appendix4H	31 of 99		NA	NA	NA	NA	NA	NA		500	500	500	500	500	500

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						2010	2020	2030	2040	2050	2060		2010	2020	2030	2040	2050	2060
F	Menard-Alternative WMS Total	Appendix4H	31 of 99		0	0	240	240	240	240		740	740	740	740	740	740	
F	Midland - Subordination-CMWD System WMS Supply	Appendix4H	32 of 99	4,488	6,055	0	0	0	0		4,505	6,055	0	0	0	0		
F	Midland - Subordination-OH Ivie Lake WMS Supply	Appendix4H	32 of 99	17	-97	-211	-324	-438	-553		17	-97	-211	-324	-438	-553		
F	Midland - WMS Totals	Appendix4H	32 of 99	5,849	13,963	31,839	31,726	31,608	31,499		5,849	14,060	32,050	32,050	32,046	32,052		
F	Millersview-Doole WSC-Subordination WMS Supply	Appendix4H	33 of 99	242	257	128	144				190	241	3	46	0	0		
F	Millersview-Doole WSC- WMS Supply Total	Appendix4H	33 of 99	242	257	128	144				190	241	3	46				
F	Odessa-New/Renew Water Supply WMS	Appendix4H	34 of 99		4,450	4,695	4,450	4,500	4,550			4,800	4,800	4,800	4,800	4,800		
F	Odessa-Subordination WMS Supply	Appendix4H	34 of 99	4,205							4,505							
F	Odessa - Reuse WMS - listed as alternative WMS in IPP.	Appendix4H	34 of 99	4,410	4,410	4,410	4,410	4,410	4,410		4,060	4,305	4,060	4,110	4,160			
F	Odessa-WMS Supply Total	Appendix4H	34 of 99	4,756	11,437	6,318	13,316	14,430	16,163		5,056	15,847	16,728	17,726	18,840	20,573		
F	Richland SUD - Replacement Well WMS Supply	Appendix4H	36 of 99	0	0	0	0	0	0		113	113	113	113	113	113		
F	Richland SUD Total WMS Supply	Appendix4H	36 of 99	1	1	1	1	1	1		114	114	114	114	114	114		
F	Robert Lee-New WTP and Storage Facilities WMS Supply not listed	Appendix4H	37 of 99	NA	NA	NA	NA	NA	NA		200	200	200	200	200	200		
F	Robert Lee Total WMS Supply	Appendix4H	37 of 99	111	155	46	66	80	103		311	355	246	266	280	303		
F	Robert Lee-Alternative WMS-Develop Other Aquifer Supply not listed	Appendix4H	37 of 99	NA	NA	NA	NA	NA	NA		150	150	150	150	150	150		
F	Robert Lee-Alternative WMS-New Reservoir Intake not listed in IPP	Appendix4H	37 of 99	NA	NA	NA	NA	NA	NA		50	50	50	50	50	50		
F	Robert Lee Total Alternative WMS Supply	Appendix4H	37 of 99		500	500	500	500	500		700	700	700	700	700	700		
F	San Angelo-Rehabilitation of Pipe WMS Supply	Appendix4H	38 of 99	0	0	2,247	2,233	2,220	2,206		2,308	2,295	2,281	2,267	2,254	2,240		
F	San Angelo-Subordination-OC Fisher Lake WMS Supply	Appendix4H	38 of 99	3,762	3,643	3,525	3,407	3,288	3,170		3,762	3,643	3,525	3,407	3,288	3,170		
F	San Angelo-Brush Control WMS Supply	Appendix4H	38 of 99	0	0	0	0	0	0		8,362	8,362	8,362	8,362	8,362	8,362		
F	San Angelo WMS Supply Total	Appendix4H	38 of 99								20,586	27,686	30,718	37,870	37,462	36,994		
F	Snyder-Subordination WMS Supply	Appendix4H	39 of 99	511							513							
F	Snyder WMS total Supply	Appendix4H	39 of 99	581							583							
F	Irrigation-Andrews Co WMS Supply	Appendix4H	43 of 99	2,728							2,727							
F	Manufacturing-Ector Co. Subordination WMS Supply	Appendix4H	76 of 99		149	3	46	86	158			449	108	396	386	408		
F	Manufacturing-Ector Co. WMS Supply total	Appendix4H	76 of 99		499	108	396	386	408			799	213	746	686	658		
F	Steam Electric-Mitchell Co-Alternative Generation Technology (Alte	Appendix4H	98 of 99	NA	NA	NA	NA	NA	NA		4,077	2,774	4,240	5,968	8,079	10,590		



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August 28, 2010

Mr. John W. Grant, Chairman
Region F Regional Water Planning Group
c/o CRMWD
P.O. Box 869
400 E. 24th St.
Big Spring, Texas 79721

Re: 2010 Region F Initially Prepared Regional Water Plan

Dear Mr. Grant:

Thank you for seeking review and comment from the Texas Parks and Wildlife Department ("TPWD") on the 2010 Initially Prepared Regional Water Plan for Region F (IPP).

As you may know, the Texas Parks and Wildlife Commission recently issued a new and updated Land and Water Resources Conservation and Recreation Plan. One of the cornerstones of the Land and Water Plan calls for TPWD to promote and protect healthy aquatic ecosystems, including the establishment of cooperative strategies to incorporate long-term plant, fish and wildlife needs in all statewide, regional and local watershed planning, management and permitting processes.

TPWD understands that regional water planning groups are required by TAC §357.7(a)(8)(A) to perform quantitative reporting of environmental factors including effects on environmental water needs, wildlife habitat, cultural resources, and effects of upstream development on bays, estuaries and arms of the Gulf of Mexico when evaluating water management strategies. TPWD believes this quantification is a critical step in the process of attempting to plan for future water needs while at the same time, providing adequate protection of environmental resources, including fresh water inflows to current reservoirs and to the Gulf of Mexico. Accordingly, TPWD staff reviewed the IPP with a focus on the following questions:

- Does the IPP include a quantitative reporting of environmental factors including the effects on environmental water needs and habitat?
- Does the IPP include a description of natural resources and threats to natural resources due to water quantity or quality problems?
- Does the IPP discuss how these threats will be addressed?
- Does the IPP describe how it is consistent with long-term protection of natural resources?
- Does the IPP include water conservation as a water management strategy? Reuse?
- Does the IPP recommend any stream segments be nominated as ecologically unique?
- If the IPP includes strategies identified in the 2006 regional water plan, does it address concerns raised by TPWD in connection with the 2006 Water Plan.

Relative to the 2006 Regional Water Plan, the 2010 IPP proposes no changes to the population projections and includes only one change in water demands: a reduction for

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steam electric power in Mitchell County. With regard to existing supplies, groundwater supplies have changed only for the Trinity Aquifer in Brown County, for which a Desired Future Condition (DFC) and associated Managed Available Groundwater (MAG) value have been adopted by Groundwater Management Area 8 (GMA 8). Similarly, supplies from the Colorado River and associated reservoirs are unchanged from the 2006 Regional Water Plan. This includes subordination of certain water rights in the lower Colorado River basin to multiple reservoirs in Region F. As noted on page 4-20, the subordination of downstream water rights has the effect, on paper, of reducing intervening streamflows that may have environmental benefits.

Chapter 1 includes a description of natural resources in the region. Please update Table 1.4-1 Endangered and Threatened Species in Region F and Section 7.4 (Consistency with the Protection of Natural Resources) to include mussel species recently listed as threatened species by the TPWD Commission. These species include smooth pimpleback (*Quadrula houstonensis*), Texas fatmucket (*Lampsilis bracteata*), Texas pimpleback (*Quadrula petrina*), Texas fawnsfoot (*Truncilla cognate*), Texas hornshell (*Popenaias popeii*) and false spike (*Quadrula mitchelli*). More information can be found at http://www.tpwd.state.tx.us/landwater/land/maps/gis/ris/endangered_species/.

Section 5 describes the potential impact of water management strategies on water quality. Section 7.2 (Consistency with the Protection of Water Resources) reiterates information previously provided in Sections 1 and 4. Section 7.4 (Consistency with the Protection of Natural Resources) notes threatened and endangered species as well as public lands within Region F. Appendix 4F has low/medium/high descriptors of various environmental factors associated with water management strategies.

Each of the water management strategies discussed in Chapter 4 has a short description of associated environmental issues. Water conservation is recommended for many of the municipal water user groups with supply shortages as well as for irrigation shortages. Wastewater reuse is also recommended for some municipalities. TPWD supports the Region's consideration of brush control/management as an additional means to conserve water if done in a manner that can also benefit wildlife habitat. TPWD stands ready to assist with coordination of a land management program for Region F, as stated in the Region F IPP on page 4-202.

TPWD acknowledges Region F's environmental policy recommendations as discussed in Section 8.3.3. We concur with the Region's belief that good stewardship of land resources will also protect water resources and that water development must be balanced with protection of environmental values. While the IPP does not recommend nomination of any stream segments as ecologically unique until TPWD completes comprehensive studies, the IPP does acknowledge the importance of these resources. TPWD looks forward to future discussions with you regarding coordination of stakeholder-based efforts to identify and quantify priority environmental values to be protected.

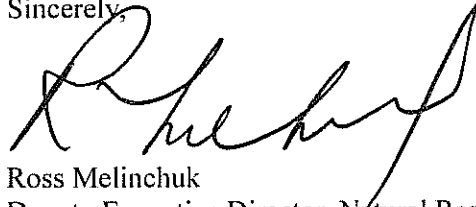
Section 8.3.4 states that "Some cities and municipalities are concerned that a significant portion of their water supply could be reallocated to meet instream flow demands." TPWD is unaware of any federal or state legislation that forcibly reallocates existing water rights or water supplies to instream uses. Senate Bill 3, passed by the Texas

Mr. John Grant
Page 3 of 3
August 28, 2010

legislature in 2007, created a new regulatory process for determining the environmental flow needs of the state's river basin and bay systems, but the law does not provide the state the authority to reallocate existing water rights to meet environmental flow needs. Texas Water Code Section 11.0237 does provide that water right holders may *voluntarily* amend an existing water right to change the use to or add a use for environmental flows. Additionally, Texas Water Code Section 11.122 provides that certain water right amendments, namely those that request an increased appropriation of water or an increased diversion rate, may be subject to environmental flow permit conditions.

We appreciate the opportunity to provide these comments. While TPWD values and appreciates the need to meet future water supply demands, we must do so in a thoughtful and sound manner that ensures the ecological health of our state's aquatic and natural resources. If you have any questions, or if we can be of any assistance, please feel to contact Cindy Loeffler at 512-389-8715. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Ross Melinchuk". The signature is fluid and cursive, with a large initial "R" and "M".

Ross Melinchuk
Deputy Executive Director, Natural Resources

RM:CL:ch

RESPONSE TO AGENCY COMMENTS

TWDB Comments on Initially Prepared 2011 Region F Regional Water Plan

Executive Summary

1. Page ES-8, Section ES.3.2, line 2: "...to develop approximately 243,000 acre-feet per year of additional supplies by 2060..." does not reconcile with total water management strategy supply volume of 254,754 acft/yr presented on page ES-9, Table ES-1 or total water management strategy volume of 194,710 acft/yr presented in Table 4.10-1. Please revise as appropriate.

Response: Table ES-1 and the corresponding text have been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups.

2. Page ES-8, Section ES.3.2, line 11; page ES-9, paragraph 1; and page ES-10 Figure ES-5: the total Region F water supply (current supplies with all water management strategies in year 2060) shown as 806,000 acft/yr does not reconcile with the sum of current water user group supply (610,000 acft/yr) and recommended water management strategy supply total (either 194,710 acft/yr, from Table 4.10-1; or 254,754 acft/yr, from Table ES-1), which would total either 804,710 acft/yr or 864,754 acft/yr, respectively. Please revise to reconcile these totals throughout the plan as appropriate.

Response: Page ES-8 has been updated to show 805,000 acre-feet. This corresponds to the supplies recommended for water user groups.

3. Page ES-9, Table ES-1: "Desalination" year 2060 water management strategy volume of 16,050 acft/yr and capital cost of \$424,148,000 do not reconcile with Table 4.10-1 summary of recommended water management strategies volume of 6,550 acft/yr and cost of \$6,717,000. Please revise as appropriate.

Response: Table ES-1 and the corresponding text have been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups.

4. Page ES-9, Table ES-1: "New Groundwater" 2060 water management strategy volume of 32,152 acft/yr and capital cost of \$126,333,990 does not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 26,152 acft/yr and cost of \$174,573,000. Please revise as appropriate.

Response: Table ES-1 and the corresponding text have been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups.

5. Page ES-9, Table ES-1: “Infrastructure Improvements” capital cost of \$24,776,979 does not reconcile with Table 4.10-1 summary of recommended water management strategy cost of \$6,091,979. Please revise as appropriate.

Response: Table ES-1 and the corresponding text have been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups.

6. Page ES-9, Table ES-1: “Reuse” capital cost of \$150,460,000 does not reconcile with Table 4.10-1 summary of recommended water management strategy cost of \$2,158,000. Please revise as appropriate, throughout plan (e.g. Figure ES-5).

Response: Table ES-1 has been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups. Figure ES-5 shows the distribution of supplies to water user groups, not costs.

7. Page ES-9, Table ES-1 & Figure ES-4: “Subordination” 2060 water management strategy volume of 72,830 acft/yr does not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 33,486 acft/yr . Please revise as appropriate, throughout plan (e.g. Figure ES-5).

Response: Table ES-1 has been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups. Figure ES-4 shows the total supply available to Region F with and without subordination. The difference in the bar graphs (green bar and red bar) is the amount of supply made available through subordination. No changes made to the graph. Figure ES-5 is correct.

8. Page ES-9, Table ES-1: “Voluntary Redistribution” 2060 water management strategy volume of 28,158 acft/yr and capital cost of \$8,964,000 does not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 22,958 acft/yr and cost of \$0. Please revise as appropriate, throughout plan (e.g. Figure ES-5).

Response: Table ES-1 and the corresponding text have been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups.

9. Page ES-9, Table ES-1: “Total” for All Recommended Water Management Strategies 2060 volume of 254,754 acft/yr and capital cost of \$827,377,639 do not reconcile with Table 4.10-1 summary of recommended water management strategy volume of 194,710 acft/yr and cost of \$282,234,649. Please revise as appropriate, throughout plan (e.g. Figure ES-5).

Response: Table ES-1 and the corresponding text have been updated. Table ES-1 includes strategies developed for water user groups and strategies developed for wholesale water providers. Table 4.10-1 lists only the strategies for water user groups. Figure ES-5 shows only supplies to water user groups. This figure is correct.

Chapter 1

10. Please describe how the planning group explored opportunities and benefits of regional water supply facilities or providing regional management of regional facilities. [Title 31 Texas Administrative Code (TAC) §357.5(e)(6)]

Response: The region evaluated regional opportunities through the special studies that were conducted in Phase 1 of this planning cycle. These studies evaluated regional opportunities for groundwater supplies and rural systems. Both of these special studies are discussed in Section 1.7 of the plan. The findings of the special studies were considered in the development of water management strategies.

Chapter 3

11. Please indicate whether any publicly available plans of major agricultural, municipal, manufacturing and commercial water users and any water management plans were considered. [31 TAC §357.5(k)(1)(E) §357.5(k)(1)(F)]

Response: Available water supply plans are discussed in Section 1.6.

12. Page 3-4: Two of the groundwater sources listed in Table 3.1-1 and Appendix 3A appear to be the same, but are reference by different names, specifically Table 3.1-1 source “Pecos Valley” and Appendix 3A source “Cenozoic Pecos Alluvium”. Please revise as appropriate.

Response: Appendix 3A was corrected to show the aquifer name as Pecos Valley.

13. Page 3-39: Hords Creek Lake “...diversion of 2,260 acre-feet per year” does not reconcile with page 3-35, Table 3.2-1 diversion volume of 2,240 acft/yr . Please revise as appropriate throughout plan.

Response: The diversion amount was corrected to 2,240 acre-feet per year.

14. Page 3-42, Table 3.2-2: Table does not indicate to which information the footnote (c) applies. Please revise as appropriate.

Response: The footnote was removed.

15. Page 3-43, Table 3.2-3: Table header does not specify whether the “WAM Supplies” listed are ‘firm yield’ or ‘safe yield’. Please clarify in table.

Response: All run-of-the-river supplies are based on firm supply. The header was changed to say “WAM Firm Supplies”.

16. Page 3-53, Table 3.5-1: CRMWD Ector County Well Field volume of 423 acft/yr for all decades does not reconcile with Appendix 3B volume of 440 acft/yr for all decades. Please revise as appropriate.

Response: The supply volume has been changed to 440 acre-feet per year for all decades.

Chapter 4

17. It appears that total county ‘balance’ surpluses/shortages were calculated incorrectly throughout Chapter 4 tables by subtracting ‘Total Demand’ from ‘Total Supply’. Please clarify that these are not water ‘needs’ (e.g. with a footnote) or revise to reflect total subcategory and county-wide water needs as the sum of the individual needs of each water user group in the county; needs that are calculated based on each water user group’s own demands and supplies. [31 TAC §357.7(a)(4)(B)]

Response: The calculations presented in Tables 4.1-1 through 4.1-3 are correct. A footnote will be added that states the sum of the individual water user group needs will differ. A comparison of supply and demand by water user group is included in Appendix 4A.

18. Page 4-2, last sentence: Indication that “On a water user group basis, the sum of the shortages is over 213,000 acre-feet per year in 2010...” does not reconcile with Table 4.1-1 year 2010 summation of shortages of 212,918acft/yr. Please revise as appropriate throughout plan.

Response: The text on page 4-2 was changed to say “about 213,000”.

19. Page 4-6, Table 4.1-1: Table incorrectly sums water ‘needs’ both horizontally (e.g. the Andrews County irrigation need of 12,875 acft/yr is apparently reduced to 12,818 acft/yr by incorrectly associating surplus water supplies from other water user groups that are not available to this water user group) and vertically (e.g. total needs for the region are presented as 183,933 acft/yr in 2010 whereas the correct net region total water needs in 2010 are 212,918 acft/yr). Please revise table to summarize and compile identified water needs appropriately.

Response: The calculations presented in Tables 4.1-1 through 4.1-3 are correct. A footnote will be added that states the sum of the individual water user group needs will differ. A comparison of supply and demand by water user group is included in Appendix 4A.

20. Page 4-19, Table 4.2-3: Subordination water management strategy supply volume totals, by decade, in acft/yr of 43,303; 46,471; 29,394; 30,636; 30,877; 32,946) do not reconcile with

Table 4.10-1 Subordination supply volume totals, by decade, in acft/yr of 43,890; 47,047; 29,961; 31,194; 31,427; 33,486. Please revise as appropriate.

Response: Tables 4.2-3 and 4.10-1 were updated for the final plan. The total amount for subordination shown in Table 4.2-3 will not be the same as in Table 4.10-1 because the amount of water attributed to subordination of Spence Reservoir is shown as an infrastructure improvement strategy for San Angelo in Table 4.10-1. This strategy includes the subordination amount plus the existing available supply of 34 acre-feet per year from Spence Reservoir.

21. Page 4-20, paragraph 1, line 6: All recommended water management strategies must indicate associated capital and annual costs. Please indicate whether the cost for the ‘Subordination’ water management strategy is zero or present any associated costs with the strategy.

Response: The text on page 4-20 of the IPP states, “For planning purposes, capital and annual costs for the subordination strategy are assumed to be \$0.” This statement is now on page 4-21 of the final plan.

22. Page 4-26, first sentence, last paragraph: Please reword text to clarify that implementation of Region F water municipal conservation provides water savings of 310 acft/yr rather than 509 acft/yr. This reconciles the strategy supply with the Appendix 4G, page 4G-1 value of 310 acft/yr for 2060 and reflects the fact that the remaining conservation savings appear to be associated with plumbing fixture savings that were embedded in the demand projections.

Response: The text was reworded to reflect the savings associated only with Region F strategies.

23. Page 4-28, Section 4.3.2, paragraph 1: 2010 and 2060 City of Ballinger water demands of 1,068 acft/yr and 1,337 acft/yr do not reconcile with Table 4.3.2 (page 4-29) values of 1,142 acft/yr and 1,329 acft/yr respectively. Please revise as appropriate.

Response: The text was corrected to reflect the amounts shown in Table 4.3-2.

24. Page 4-28, Section 4.3.2, paragraph 2: 2010 City of Ballinger water management strategy supply of 950 acft/yr does not reconcile with Table 4.3.2, page 4-29 value of 940 acft/yr and neither number reconciles with Appendix 4H, page 4H-3 tabular value of 917 acft/yr.

Response: Lake Ballinger yield of 950 ac-ft is for 2000 sediment conditions. The yield of 940 acre-feet per year is in 2010. The text on page 4-29 of the final plan was modified to clarify this. The supply difference in Appendix 4H is due to sales to county-other.

25. Page 4-29, Table 4.3-3: Table ‘Comments’ does not specify whether the “WAM yield” values listed are ‘firm yield’ or ‘safe yield’. Please clarify.

Response: The comments were clarified to reflect safe yield.

26. Page 4-31: Section ‘Voluntary Redistribution – Hords Creek Reservoir to Ballinger (220 acft/yr for 2040 through 2060) and MDWSC to Ballinger (600 acft/yr for 2010 through 2040)’ water management strategies do not appear to be included in the Summary of Recommended water management strategies (supply and cost data) in Appendix 4H under the category ‘Voluntary Redistribution’ located on the fourth (unnumbered) page of Appendix 4H. Please revise as appropriate.

Response: Neither of these strategies is recommended for the City of Ballinger. Ballinger has an existing contract for 600 acre-feet per year of water from CRMWD through MDWSC. Only a portion of the water is available without subordination. The recommended strategies for Ballinger are conservation, subordination of Lake Ballinger, subordination of CRMWD sources (for the remainder of the MDWSC contract) and enter into a new contract with CRMWD when the contract with MDWSC expires.

Appendices

27. Appendix 4D, page 48: It appears that the final water management strategy in Appendix D is not assigned to any particular water user group or wholesale water provider. Please clarify.

Response: this is a generic cost estimate that is used for planning purposes only.

28. Appendices 4H/4I: Appendix 4H is labeled “Water User Group Summary Tables” but appears to include four tables including a Summary of Recommended Strategies, Summary of Alternative Strategies, List of Potentially Feasible Strategies, and Water User Group Summary Tables. Table of Contents refers to appendix 4I which is not labeled in the appendices section the contents of which appear to be included at the beginning of Appendix 4H. Please revise Table of Contents and appendices labels regarding 4H and 4I to clarify locations of contents.

Response: This was corrected for the final plan.

29. (Attachment B) Comments on the online planning database (i.e. DB12) are herein being provided in spreadsheet format. These Level 1 comments are based on a direct comparison of the online planning database against the Initially Prepared Regional Water Plan document as submitted. The table only includes numbers that do not reconcile between the plan (left side of spreadsheet) and online database (right side of spreadsheet). An electronic version of this spreadsheet will be provided upon request.

Response: The database (DB12) and the Region F Water Plan have been reviewed for consistency and data entries have been reconciled. In some cases, both the plan and DB12 were modified to clarify water strategies and/or supply distributions. A summary of the responses to these comments is included in the Table 10B-1.

LEVEL 2. Comments and suggestions that might be considered to clarify or enhance the plan.General Comment

1. Header on each page indicating “IPP Volume I” suggests that there may be another volume associated with plan. Please consider clarifying in header and/or Table of Contents and throughout plan (e.g. pages 1-64, 3-44, 4-24), if appropriate in the final adopted plan.

Response: Volume I was removed from the header. Region F will provide a complete set of the Phase I studies to the Regional Planning Group Members. This will be printed as a separate document.

Chapter 4

2. Chapter 4: There is no reference in the Chapter 4 text to the associated Appendix 4F – Strategy Evaluation Matrix and Quantified Environmental Impact Matrix. Please consider including a reference in Chapter 4 directing readers to this data.

Response: A reference was added to page 4-12 of the final plan.

Texas Parks and Wildlife Comments, Received August 28, 2010

1. Please update Table 1.4-1 Endangered and Threatened Species in Region F and Section 7.4 with the recently designated threatened mussel species. (Note: these were designated in November 2009.)

Response: Table 1.4-1 was updated with the recently threatened mussel species. In Chapter 7, the six listed mussel species were added to the text on page 7-5.

2. Texas Parks and Wildlife supports brush control/land management to conserve water if done in a manner that can also benefit wildlife habitat.

Response: Region F acknowledges your support for brush control and land management.

3. Texas Parks and Wildlife looks forward to working with the region to identify priority environmental values to be protected, including designation of unique stream segments.

Response: Region F appreciates the TPWD's offer of assistance.

4. Texas Parks and Wildlife discussed clarifications of instream flows as outlined by SB3.

Response: Region F acknowledges your comments. No changes were made to the plan.

REGION F			Non-matching numbers													Response		
Region IPP	IPP document reference:		IPP document number							Online Planning Database (DB12) number								
	Item	Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040		2050	2060
F	Colorado River Municipal Water District Total Demands	2-28	2.4-1		90,712	93,131	75,243	75,629	75,199	76,144		89,212	91,631	73,743	74,129	73,699	74,644	Table 2.4-1 was corrected.
F	Brown County Water Improvement District #1 Total Demands	2-29	2.4-2		14,929	15,053	15,036	14,949	14,941	15,007		15,085	15,210	15,192	15,105	15,097	15,163	Table 2.4-2 was corrected.
F	City of San Angelo Total Demands	2-31	2.4-6							53,746							53,265	Table 2.4-6 was corrected.
F	Andrews Co. Pecos Valley Rio Grande	3-4	3.1-1	1,189								191	191	191	192	192	192	Plan and DB12 are correct; Value stated in comment is allocated supply to WUGs.
F	Andrews Co. Dockum Colorado	3-4	3.1-1	905								22	22	22	22	22	22	Plan and DB12 are correct; Value stated in comment is allocated supply to WUGs.
F	Andrews Co. Dockum Rio Grande	3-4	3.1-1	5,792								NA	NA	NA	NA	NA	NA	Plan and DB12 are correct; Value stated in comment is allocated supply to WUGs.
F	Andrews Co. Ogallala Colorado	3-4	3.1-1	31,279								24,886	24,886	24,886	25,373	25,363	25,350	DB12 value is 31279; Value stated in comment is allocated supply to WUGs.
F	Andrews Co. Ogallala Rio Grande	3-4	3.1-1	4,333								NA	NA	NA	NA	NA	NA	DB12 value is 4333; Value stated in comment is allocated supply to WUGs.
F	Andrews Co. Eds-Trinity Colorado	3-4	3.1-1	4,640								25	25	25	25	25	25	DB12 value is 4640; Value stated in comment is allocated supply to WUGs.
F	Groundwater Supply -Brown-Trinity Aquifer	3-4	3.1-1	2,045								2,085						Changed db12 and table 3.1-1
F	Groundwater Supply -Coleman-Ellenberger-San Saba	3-4	3.1-1	-								179						deleted in DB12
F	Groundwater Supply -Crane-Other Aquifer	3-4	3.1-1	NA								81						Add table of Other aquifer
F	Ector-Pecos Valley	3-4	3.1-1	2,904								3,143						Changed DB12
F	Irion - Dockum	3-4	3.1-1	-								928						This is other aquifer in DB12, not Dockum
F	Mitchell-Other Aquifer	3-4	3.1-1	NA								2						Add table of Other aquifer
F	Pecos-Capitan Reef	3-4	3.1-1	34,000								NA						Added to DB12
F	Pecos-Rustler Aquifer (db12)	3-4	3.1-1	NA								1,389						Add table of Other aquifer
F	Pecos Other Aquifer (db12)	3-4	3.1-1	NA								5						Add table of Other aquifer
F	Reeves-Rustler Aquifer (db12)	3-4	3.1-1	NA								103						Add table of Other aquifer
F	Runnels- db12 Other Aquifer	3-4	3.1-1	NA								2,656						Add table of Other aquifer
F	Scurry-db12 -Other Aquifer	3-4	3.1-1	NA								314						Add table of Other aquifer
F	Sterling-Other Aquifer (db12)	3-4	3.1-1	NA								997						Add table of Other aquifer
F	Winkler- Dockum Aquifer	3-4	3.1-1	10,746								10,748						Added supply from Colorado Basin to Table
F	Groundwater Supplies in Region F	3-6	3.1-1		NA	NA	NA	NA	NA	1,170,823		1,157,501	1,157,508	1,157,504	1,157,491	1,157,468	1,157,453	Total groundwater supplies include other aquifer. Plan and DB12 are now correct.
F	Currently Available Supplies to WUGs/Co- Brown	3-51	3.4-1		21,694	21,784	21,787	21,752	21,764	21,821		21,750	21,840	21,843	21,808	21,820	21,877	changed in plan
F	Coke	3-51	3.4-1		2,094	2,072	2,345	2,307	2,288	2,253		2,228	2,181	2,446	2,401	2,372	2,327	changed in plan
F	Coleman	3-51	3.4-1		2,906	2,891	2,888	2,886	2,885	2,881		2,806	2,791	2,788	2,786	2,785	2,781	changed in plan
F	Concho	3-51	3.4-1		7,001	6,994	7,032	7,021	6,909	6,909		7,035	7,172	7,191	7,185	7,129	7,129	changed in plan
F	Ector	3-51	3.4-1		48,121	44,770	53,358	54,244	55,272	55,908		48,048	44,677	53,197	54,079	55,110	55,455	changed in plan
F	McCulloch	3-51	3.4-1		9,644	9,737	9,889	9,941	9,790	9,889		9,449	9,530	9,645	9,708	9,665	9,764	changed in plan
F	Runnels	3-51	3.4-1		4,854	4,859	4,899	4,899	4,825	4,556		4,953	4,948	5,102	5,090	4,701	4,732	changed in plan
F	Tom Green	3-51	3.4-1		74,516	74,295	74,186	73,972				74,429	74,207	74,041	73,822			changed in plan
F	Total Supply to Water Users	3-51	3.4-1		619,575	615,264	615,446	611,147	610,509	609,822		619,443	615,208	615,315	611,004	610,358	609,670	changed in plan
F	Andrews Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		560	560	560	560	560	560	add table 3.3-3 to plan
F	Concho Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		80	220	220	220	220	220	add table 3.3-3 to plan
F	Ector Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		3,000	3,150	3,300	3,450	3,600	3,750	add table 3.3-3 to plan
F	Midland Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		5,987	5,987	5,987	5,987	5,987	5,987	add table 3.3-3 to plan
F	Runnels Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		218	218	218	218	218	218	add table 3.3-3 to plan
F	Tom Green Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		8,500	8,500	8,500	8,500	8,500	8,500	add table 3.3-3 to plan
F	Ward Co. Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		670	670	670	670	670	670	add table 3.3-3 to plan
F	Total Direct Reuse	NA	NA		NA	NA	NA	NA	NA	NA		19,015	19,305	19,455	19,605	19,755	19,905	add table 3.3-3 to plan
F	Currently Available Supply - WWP- Brown Co WID #1	3-53	3.5-1		29,712	29,712	29,712	29,712	29,712	29,712		29,868	29,868	29,868	29,868	29,868	29,868	DB12 reports total supply as 29712. No changes made.
F	""-CRMWD-Ector Co Well Field	3-53	3.5-1		423	423	423	423	423	423		440	440	440	440	440	440	DB12 is correct. Corrected table 3.5-1
F	""CRMWD-Lake Ivie	3-53	3.5-1		66,350	65,000	636,520	63,000	60,950	59,600		66,874	65,524	64,018	62,676	61,336	60,006	DB12 reports source as CRMWD system (includes Ivie, Thomas and Spence less non-system portion)
F	""EV Spense	3-53	3.5-1		560	560	560	560	560	560		34	34	34	34	34	34	Spence non-system portion is reported in DB12
F	""City of Odessa- Ward Co Field	3-53	3.5-1		4,800	NA	NA	NA	NA	NA		4,800	-	-	-	-	-	Correct
F	"" City of Odessa-CRMWD System	3-53	3.5-1		13,439	13,191	20,793	20,778	21,177	21,047		14,139	13,691	21,388	20,978	21,277	21,047	DB12 matches table. No changes made.
F	""-University Lands- Midland Paul Davis Well Field	3-53	3.5-1		4,722	4,722	4,722	-	-	-		NA	NA	NA	NA	NA	NA	DB12 is correct. Data are presented differently in Table 3-5.2.
F	"" University Lands- City of Andrews Well Field	3-53	3.5-1		671	708	730	-	-	-		1,908	1,945	1,967	0	0	0	DB12 is correct. Data are presented differently in Table 3-5.2.
F	Andrews County Total Needs	4-6	4.1-1		(12,818)							(12,875)						Not a valid comparison. Table 4.1-1 compares total supplies versus demands. It does not report only the needs.
F	Borden County Total Needs	4-6	4.1-1		(1,520)							(1,847)						
F	Brown County Total Needs	4-6	4.1-1		(2,369)							(3,006)						
F	Coke County Municipal Needs	4-6	4.1-1		(111)							(116)						
F	Coke County Total Needs	4-6	4.1-1		(870)							(875)						
F	Coleman County Municipal Needs	4-6	4.1-1		(359)							(1,304)						

REGION F				Non-matching numbers													Response		
Region IPP	Item	IPP document reference:		IPP document number						Online Planning Database (DB12) number									
		Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040	2050		2060	
F	Howard County Total Needs	4-8	4.1-3							(890)							(1,330)	Not a valid comparison. Table 4.1-3 compares total supplies versus demands. It does not report only the needs.	
F	Irion County Total Needs	4-8	4.1-3							(963)							(1,000)		
F	Kimble County Municipal Needs	4-8	4.1-3							(904)							(910)		
F	Kimble County Total Needs	4-8	4.1-3							(895)							(1,909)		
F	Martin County Total Needs	4-8	4.1-3							(291)							(393)		
F	McCulloch County Municipal Needs	4-8	4.1-3							(960)							(1,038)		
F	McCulloch County Total Needs	4-8	4.1-3							2,494							(1,038)		
F	Mitchell County Total Needs	4-8	4.1-3							(3,707)							(4,140)		
F	Reagan County Total Needs	4-8	4.1-3							(8,386)							(8,393)		
F	Reeves County Total Needs	4-8	4.1-3							(31,829)							(31,847)		
F	Scurry County Total Needs	4-8	4.1-3							951							(348)		
F	Tom Green County Municipal Needs	4-8	4.1-3							(11,321)							(11,633)		
F	Tom Green County Total Needs	4-8	4.1-3							(62,004)							(62,367)		
F	Upton County Irrigation Needs	4-8	4.1-3							(9,495)							(9,539)		
F	Upton County Total Needs	4-8	4.1-3							(9,030)							(9,539)		
F	Region F Total Irrigation Needs	4-8	4.1-3							(141,535)							(166,120)		
F	Region F Total Mining Needs	4-8	4.1-3							1,875							(375)		
F	Region F Total Municipal Needs	4-8	4.1-3							(39,963)							(49,636)		
F	Region F Total Needs	4-8	4.1-3							(205,321)							(241,856)		
F	Colorado River Municipal Water District Needs	4-9	4.1-4		(16,227)	(25,196)	(8,658)	(10,394)	(11,314)	(13,609)		(14,729)	(23,698)	(8,138)	(9,242)	(9,954)	(12,229)		Corrected Table 4.1-4
F	City of Odessa Needs	4-9	4.1-4		(4,488)	(10,176)	(4,118)	(5,215)	(6,085)			(3,788)	(10,216)	(3,523)	(5,015)	(5,985)		Corrected Table 4.1-4	
F	City of San Angelo Needs	4-9	4.1-4					(33,188)	(33,973)	(34,746)					(33,140)	(33,730)	(34,265)	Corrected Table 4.1-4	
F	Colorado River Municipal Water District Needs	NA	Appendix 3B		(16,227)	(25,196)	(8,658)	(10,394)	(11,314)	(13,609)		(14,729)	(23,698)	(8,138)	(9,242)	(9,954)	(12,229)	Corrected Appendix 3B	
F	City of Odessa Needs	NA	Appendix 3B		(4,488)	(10,176)	(4,118)	(5,215)	(6,085)			(3,788)	(10,216)	(3,523)	(5,015)	(5,985)		Corrected Appendix 3B	
F	Subordination -Coleman - Coleman Co - Lake Coleman	4-18	4.2-3		2,063	2,075	2,080	2,087	2,089	2,091		1,650	1,651	1,647	1,645	1,639	1,631	Corrected table 4.2-3	
F	Subordination -Manufacturing-Ector Co - CRMWD	4-18	4.2-3		66	149	3	46	86	158		366	449	108	396	386	408	Corrected table 4.2-3	
F	Subordination -Manufacturing-Kimble Co - Llano River no	4-18	4.2-3		NA	NA	NA	NA	NA	NA		1,000	1,000	1,000	1,000	1,000	1,000	Corrected table 4.2-3	
F	Subordination -Miles - Runnels Co - OC Fisher Reservoir	4-19	4.2-3		100	100	100	100	100	100		140	153	163	173	183	193	Corrected table 4.2-3	
F	Subordination -Snyder - Scurry Co - CRMWD	4-19	4.2-3		511							513						Corrected table 4.2-3	
F	Subordination -Total	4-19	4.2-3		43,303	46,471	29,394	30,636	30,877	32,946		43,889	47,044	29,902	31,374	31,810	33,829	Corrected table 4.2-3	
F	Ballinger - Subordination-Ballinger	4-29 , 4-30 & 4-41	4.3-3 , 4.3-4 & 4.3-8		940							917						DB12 and tables are correct. Subordination values in DB12 also include supply to Runnels County-other.	
F	Ballinger - Subordination of downstream rights to CRMW	4-41	4.3-8		343	356	227	243	0	0		NA	NA	NA	NA	NA	NA	Corrected DB12 to show subordination to Ballinger and customers	
F	Ballinger - CRMWD System not listed in DB12	4-41	4.3-8		257	244	373	357	0	0		NA	NA	NA	NA	NA	NA	Included in DB12 as O.H. Ivie non-system portion. Changed table 4.3-8 to clarify.	
F	Winters - Subordination	4-43	4.3-11		720					670		552					591	Includes subordination supplies to customers. Customers supplies are shown separately in DB12.	
F	Reuse Cost	4-48	4.3-14							258,000							69,960	Corrected Table 4.3-15.	
F	Subordination to Lake Winters	4-48	4.3-14		720	710	700	690	680	670		552	561	566	571	575	591	DB12 breaks out sales to county other and manufacturing. The sum of subordination supplies from Lake Winters is correct. No changes made.	
F	Winters WMS Totals	4-48	4.3-14		720	710	700	800	790	780		552	561	566	681	685	701	DB12 breaks out sales to county other and manufacturing. The sum is correct. No changes made.	
F	City of Winters Cost for Reuse	4-48	4.3-15							258,000							69,960	Corrected Table 4.3-15.	
F	Bronte - Rehabilitation of Pipeline	4-52	4.3-18		0	0	0	0	0	0		129	129	129	129	129	129	DB12 includes subordination supplies in quantity.	
F	City of Bronte Cost for Rehab of Oak Creek pipeline	4-56	4.3-21		1,238,600	21,600	21,600					1,955,000	-	-				Revised per comment from Bronte.	
F	Robert Lee - Direct Reuse WMS	4-60	4.3-23		2,158,000							na						Not a recommended or alternate strategy. Not included in DB12.	
F	Robert Lee - Brush Control Cost - not listed in IPP	4-68	4.3-30		NA	NA	NA	NA	NA	NA		114,070	19,000	19,000	19,000	19,000	19,000	deleted in DB12	
F	City of Menard Conservation Cost	4-71	4.3-32		8,755	13,526	13,146	12,776	12,414	12,190			2,183	7,018	6,993	6,982	6,961	6,951	Corrected DB12.
F	City of Menard Off Channel Reservoir	4-77	4.3-35		24,520,000							25,273,000						Corrected table in plan.	
F	City of Menard Conservation Cost	4-79	4.3-36		8,755	13,526	13,146	12,776	12,414	12,190			2,183	7,018	6,993	6,982	6,961	6,951	Corrected DB12.
F	City of Midland Develop Aquifer Supplies	4-82	4.3-39		468,507,000							168,507,000						Corrected table in plan.	
F	City of Midland Develop Aquifer Supplies	4-82	4.3-39							4,648,500	4,648,500					4,651,200	4,651,200	Corrected DB12.	
F	Midland-Subordination-WMS Supply	4-87	4.3-41		4,656	6,113	-156	-266	-378	-490		4,505	6,055	0	0	0	0	Reconciled	
F	Midland-Voluntary Redistribution-Annual Cost	4-88	4.3-42				4,790,000	4,694,200	4,598,400	4,502,600				4,772,088	4,676,646	4,581,204	4,485,763	Reconciled	
F	Midland-Annual Cost Totals	4-88	4.3-42				24,646,531	24,570,877	9,738,961	9,635,997				24,628,619	24,523,323	9,724,465	9,621,750	Reconciled	
F	City of Midland Redistribution	4-88	4.3-42				4,790,000	4,694,200	4,598,400	4,502,600				-	-	-	-	corrected DB12	
F	Coleman-Subordination WMS Supply	4-93	4.3-46		2,200	2,200	2,200	2,200	2,200	2,200		2,030	2,031	2,027	2,025	2,019	2,011	Includes sales to County-other. Corrected Appendix H	
F	Brady-Subordination WMS Supply	4-98	4.3-52		1,350	1,350	1,350	1,350	1,350	1,350		2,170	2,170	2,170	2,170	2,170	2,170	The number in the plan is limited by water treatment and delivery capacity. The number in DB12 is not.	
F	City of Eden Cost for replacent wells	4-106	4.3-55		1,800,000							1,367,372						corrected DB12	
F	City of Eden Cost for Advanced Treatment	4-109	4.3-57		2,582,000							4,382,000						corrected DB12	

REGION F			Non-matching numbers													Response		
Region IPP	IPP document reference:		IPP document number							Online Planning Database (DB12) number								
	Item	Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040		2050	2060
F	City of Eden -Cost of Recommended Strategies for Hickoi	4-121	4.3-65	1,367,372							na							Don't understand comment.
F	Richland SUD-Cost of Recommended Strategies for Hickoi	4-121	4.3-65	977,829	308,311	308,311	384,361	384,361	384,361	384,361	1,703,979.00	234,154.37	234,154.37	86,154.37	86,154.37	86,154.37	86,154.37	Corrected table in plan.
F	City of Melvin -Cost of Recommended Strategies for Hickoi	4-121	4.3-65	325,139	102,392	102,392	102,392	102,392	102,392	102,392	na	na	na	na	na	na	na	Corrected table in plan.
F	Live Oak Hills Subdivision -Cost of Recommended Strategi	4-121	4.3-65	88,804	288,819	288,819	288,819	288,819	288,819	288,819	na	na	na	na	na	na	na	Corrected table in plan.
F	Kimble Co Manufacturing Cost not listed in IPP	4-129			NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	There are no costs associated with subordination.
F	Iron Co Irrigation Conservation WMS Supply	4-144	4.6-5			36							37					Corrected table in plan.
F	Scurry Co Irrigation Conservation WMS Supply	4-144	4.6-5			572							571					Corrected table in plan.
F	Sterling Co Irrigation Conservation WMS Supply	4-144	4.6-5			44							45					Corrected table in plan.
F	Tom Green Co Irrigation Conservation WMS Supply	4-144	4.6-5			5,690							5,774					Corrected table in plan.
F	Winkler Co Irrigation Conservation WMS Supply	4-144	4.6-5			195							194					Corrected table in plan.
F	Costs for Roberts Co Area	4-163	4.8-8	768,821,000							na					na		Not a recommended or alternate strategy. Not included in DB12.
F	City of Snyder-Potential Water Conservation Summary	4-165	4.8-9		\$56,052.00	\$61,357	\$59,809.00	\$57,823.00	\$55,694.00	\$54,185.00		13,976.00	18,898.00	18,973.00	19,026.00	18,969.00	18,901.00	Corrected DB12
F	CRMWD-Cost for Supplemental Well	4-171	4.8-14	522,000							na							Added to DB12.
F	Colorado River Municipal Water District Cost for Desalina	4-170	4.8-13	119,617,000							131,603,990							Corrected text in plan
F	Colorado River Municipal Water District Cost for new wel	4-173	4.8-16	73,994,000			8,460,000	8,460,000	8,460,000	2,009,000	76,268,000	-	-	8,666,000	8,666,000	2,017,000	2,017,000	Corrected text in plan
F	University Lands Contract	4-173	4.8-16			847,000	847,000	65,000	65,000	65,000								Added to DB12.
F	Colorado River Municipal Water District Cost for Desalina	4-173	4.8-16	119,617,000				6,340,378	6,340,378	6,340,378	131,603,990				13,721,167	2,384,500	2,384,500	Corrected text in plan
F	Supplemental Wells	4-173	4.8-16	12,528,000		200,000	400,000	416,000	432,000	448,000								Corrected capital cost in plan and costs in DB12
F	City of San Angelo Cost for Ultimate Capacity Desalinatio	4-182	4.8-20	40,424,000														Not recommended during this planning period.
F	City of San Angelo McCulloch Co Well Field Cost	4-184	4.8-21	157,126,000							173,307,000							Corrected text in plan
F	Irrigation Sutton Co. Cost (summed incorrectly)	NA	4.10-1	164,160							194,940							Corrected text in plan
F	CRMWD Reuse cost	NA	4.10-2	148,302,000							128,748,000							Corrected text in plan
F	CRMWD Supplemental Wells cost	NA	4.10-2	12,528,000														Corrected DB12 and text in plan
F	CRMWD Desalination cost	NA	4.10-2	119,616,990							131,603,990							Corrected text in plan
F	CRMWD Total cost	NA	4.10-2	365,678,990							345,583,990							Corrected DB12 and text in plan
F	San Angelo-Subordination WMS Supply	4-191	4.8-25		11,791	11,472	11,153	10,835	10,516	10,196		16,189	15,766	15,344	14,922	14,230	14,077	Corrected DB12 and text in plan
F	Bronte - Rehabilitation of Pipeline Supply	4.206	4.10-1		0	0	0	0	0	0		129	129	129	129	129	129	Includes subordination with this strategy. Broke this out in DB12.
F	Robert Lee-New WTP and Storage Facilities WMS Supply	4.206	4.10-1		0	0	0	0	0	0		200	200	200	200	200	200	Corrected DB12
F	Coke County Total	4.206	4.10-1		680	727	514	612	712	847		1,009	1,056	843	941	1,041	1,176	Corrected DB12 and text in plan
F	Coleman - Coleman Co - Conservation WMS	4.206	4.10-1		50	109	141	163	181	187		33	75	90	95	101	107	Corrected text in plan
F	Coleman Co WMS Total	4.206	4.10-1		3,597	3,645	3,668	3,681	3,691	3,687		3,580	3,611	3,617	3,613	3,611	3,607	Corrected text in plan
F	Eden-Concho Co-Replacement Well not listed in IPP	4.206	4.10-1		NA	NA	NA	NA	NA	NA		322	322	322	322	322	322	Corrected DB12 and text in plan
F	Concho County Total	4.206	4.10-1		34	1,182	1,889	1,895	1,962	1,962		356	1,504	2,211	2,217	2,284	2,284	Corrected DB12 and text in plan
F	Ector Co Manufacturing-Reuse WMS is not listed in IPP	4.207	4.10-1		NA	NA	NA	NA	NA	NA		0	350	105	350	300	250	This is sales from Odessa. Added to table 4.10-1
F	Ector Co Manufacturing-Subordination WMS	4.207	4.10-1		66	149	3	46	86	158		366	449	108	396	386	408	Corrected DB12
F	Odessa-Ector Co-Reuse	4.207	4.10-1		0	4,293	4,273	7,262	4,258	4,256		0	3,943	4,168	3,912	3,958	4,006	Corrected Odessa reuse amount to show sales to manufacturing.
F	Odessa-Ector Co-Conservation	4.207	4.10-1		540	1,168	1,488	1,657	1,854	2,074		551	1,200	1,536	1,715	1,920	2,149	Corrected db12
F	Odessa-Ector Co-Voluntary Redistribution	4.207	4.10-1					10,507	10,502	10,498				4,708	4,708	4,708	4,708	Table 4.10-1 includes all sales from CRMWD
F	Odessa-Ector Co-Voluntary Redistribution (Develop Aquif	4.207	4.10-1			4,708	4,708	10,507	10,502	10,498			4,800	10,800	10,800	10,800	10,800	DB12 and text match.
F	Ector County Total	4.207	4.10-1		5,425	16,809	11,057	18,225	19,403	21,297		5,725	17,109	16,962	18,575	19,703	21,547	Corrected.
F	Richland SUE-Bottled Water Program WMS Supply	4-208	4.10-1		0	0	0	0	0	0		1	1	1	1	1	1	Corrected text in plan. Quantity is less than 1 but DB12 requires entries in whole numbers.
F	Richland SUE-Infrastructure Improvement WMS Supply	4-208	4.10-1		0	0	0	0	0	0		113	113	113	113	113	113	Corrected DB12
F	McCulloch County Total	4-208	4.10-1		2,314	2,640	2,779	2,880	2,937	2,946		2,428	2,754	2,893	2,914	3,051	3,060	Corrected DB12
F	Midland-Subordination-WMS Supply (CRMWD)	4-208	4.10-1		4,488	6,055	0	0	0	0		4,488	6,152	211	324	438	553	Corrected text in plan
F	Midland County Total	4-208	4.10-1			16,158	35,719	35,864	35,793	35,751			16,255	36,130	36,188	36,231	36,304	Corrected text in plan
F	Ballinger-Runnels Co-Subordination-CRMWD-not listed in	4-209	4.10-1		343	356	227	243	0	0			NA	NA	NA	NA	NA	Corrected text in plan
F	Miles-Runnels Co-Subordination	4-209	4.10-1		100	100	100	100	100	100		140	153	163	173	183	193	Corrected text in plan and DB12. Changed Miles to 200 af/y.
F	Runnels Co Total	4-209	4.10-1		2,402	2,487	2,315	2,421	2,813	2,806		2,099	2,184	2,151	2,251	2,896	2,899	Corrected text in plan
F	Snyder-Scurry Co-Subordination	4-209	4.10-1		511							513						Corrected DB12
F	Scurry County Total	4-209	4.10-1		635							637						Corrected DB13
F	Sterling Co Irrigation Conservation WMS Supply	4-209	4.10-1				90	91	92					89	89	89		Corrected text in plan
F	San Angelo-Tom Green Co-Infrastructure Improvement W	4-209	4.10-1		2,274	2,261	2,247	2,233	2,220	2,206		2,308	2,295	2,281	2,267	2,254	2,240	Corrected text in plan
F	Tom Green Co Total	4-209	4.10-1		27,490	40,555	49,411	56,711	56,340	56,289		27,524	40,589	49,445	56,745	56,374	56,323	Corrected text in plan
F	Conservation WMS Total	4-209	4.10-1		3,214	43,147	80,602	81,210	81,851	82,506		3,197	43,113	80,551	81,141	81,769	82,423	Corrected text in plan
F	Subordination WMS Total	4-209	4.10-1		43,890	47,047	29,961	31,194	31,427	33,486		43,889	47,141	30,113	31,698	32,248	34,382	Changes to both DB12 and text.
F	Bottled Water Program WMS Total	4-209	4.10-1		0	0	0	0	0	0		1	1	1	1	1	1	Corrected text in plan. Quantity is less than 1 but DB12 requires entries in whole numbers.
F	Infrastructure Improvement WMS Total	4-209	4.10-1		2,274	2,261	2,247	2,233	2,220	2,206		2,437	2,424	2,410	2,396	2,383	2,369	Changes to both DB12 and text.
F	Total for All Strategies	4-209	4.10-1		58,494	127,208	174,442	190,499	192,234	194,710		59,275	128,067	181,342	191,733	193,772	196,322	Changes to both DB12 and text.
F	CRMWD-Renew Contract WMS	4-210	4.10-1		0	5,200	5,200	5,200	5,200	5,200		392	5,622	15,629	15,430	16,119	15,932	Incorrect comparison. DB12 contract renewal includes CRMWD sales to others and contract renewal with University Lands. Sales to others may come from subordination supplies.

REGION F			Non-matching numbers													Response		
Region IPP	IPP document reference:		IPP document number							Online Planning Database (DB12) number								
	Item	Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040		2050	2060
F	CRMWD -Subordination WMS Supply	4-210	4.10-1		48,027	47,133	46,240	45,347	44,453	43,560		47,618	46,809	36,022	35,443	33,975	33,381	Changes to both DB12 and text. Note: sales to others includes subordination supplies.
F	CRMWD Total	4-210	4.10-1		48,027	64,713	69,820	78,427	77,533	76,640		48,010	64,811	70,031	78,753	77,974	77,193	Changes to both DB12 and text.
F	University Lands - New/Renew Water Supply Contract	4-210	4.10-1		NA	NA	NA	NA	NA	NA		0	5,200	5,200	5,950	5,960	5,973	Added to table 4.10-2.
F	WWP WMS Totals	4-210	4.10-1		66,473	89,537	97,622	113,506	112,021	111,076		84,954	125,541	133,699	151,761	151,521	152,545	Corrected table.
F	San Angelo -WWP	4-211	4.10-2	254,904,000							na							Costs are shown on WUG in DB12.
F	Brown C-O Brownwood Lake	App. 3A-3	App 3A		229	229	223	214	211	211		385	385	379	370	367	367	Appendix 3A was updated with the latest DB12 download. All numbers should match.
F	Brown Co. Zephyr WSC Brownwood Lake	App. 3A-4	App 3A		616	616	616	616	616	616		516	516	516	516	516	516	
F	Coke Co. Bronte Village Other Aquifer	App. 3A-4	App 3A		116	129	125	121	120	120		250	238	226	215	204	194	
F	Coleman Co. Santa Anna Brownwood Lake	App. 3A-7	App 3A		307	307	307	307	307	307		207	207	207	207	207	207	
F	Concho Co. Eden Direct Reuse	App. 3A-8	App 3A		-	-	-	-	-	-		80	220	220	220	220	220	
F	Concho Co. Millersville-Doole WSC CRMWD	App. 3A-8	App 3A		92	85	123	112				46	43	62	56			
F	Ector Co. Mfg Colorado Basin CRMWD	App. 3A-12	App 3A		177	297	604	702	771	813		877	797	1,199	902	871	813	
F	Ector Co. Odessa CRMWD	App. 3A-12	App 3A		11,949	11,350	17,464	17,158	17,354	17,159		11,176	10,757	16,708	16,793	17,092	17,006	
F	McCulloch Co. Brady Hickory Aquifer	App. 3A-19	App 3A		1,009	1,009	1,009	1,009	1,009	1,009		884	884	884	884	884	884	
F	McCulloch Co. Millersville-Doole WSC CRMWD	App. 3A-19	App 3A		161	164	238	216				91	82	119	108			
F	Runnels Co. Ballinger O.H. Ivie Lake	App. 3A-28	App 3A		-	-	-	-	-	-		257	244	373	357			
F	Runnels Co. Miles Other Aquifer	App. 3A-29	App 3A		134	134	134	134	134	134		10	10	10	10	10	10	
F	Runnels Co. Millersville-Doole WSC CRMWD	App. 3A-29	App 3A		69	62	93	85				35	31	47	43			
F	Tom Green Co. Millersville-Doole WSC CRMWD	App. 3A-36	App 3A		174	176	290	300	-	-		87	88	145	150	-	-	
F	Brown County WID Brownwood Lake	NA	App 3B		29,712	29,712	29,712	29,712	29,712	29,712		29,644	29,641	29,648	29,505	29,016	28,525	
F	CRMWD Total Current Supply	NA	App 3B		74,485	67,935	66,585	65,235	63,885	62,535		74,468	67,918	66,568	65,218	63,868	62,518	DB12 corrected.
F	Ballinger cost for reuse	2 of 48	appendix 4D	2,567,000	324,000							-	-					Added to DB12.
F	Big Spring cost for reuse	6 of 48	appendix 4D	9,911,000	1,529,000							-	-					Included with CRMWD costs.
F	Bronte cost for rehab of Oak Creek Pipeline	8 of 48	appendix 4D	34,100								-	-					Bronte cost was revised based on comments received frm Bronte.
F	CRMWD cost for Southwest Pecos Co to Odessa	11 of 48	appendix 4D	183,321,000	22,279,000							-	-					Not a recommended strategy
F	City of Eden Cost for Advanced Treatment	18 of 48	appendix 4D	2,582,000							4,382,000							Corrected DB12 to show as separate strategies
F	City of Eden Cost for replacent wells	19 of 48	appendix 4D	1,800,000							1,367,372							Corrected DB12 to show as separate strategies
F	City of Eden Cost for Bottled Water program	20 of 48	appendix 4D	24,000								38,566	38,566	38,566	38,566	38,566	38,566	Corrected DB12. Annual costs are \$33,000.
F	Cost of Odessa-Midland Reuse	28 of 48	appendix 4D	109,194,000	13,272,000							-	-					Included with CRMWD costs.
F	Robert Lee cost of new groundwater from Alluvium	35 of 48	appendix 4D	157,000								396,500	396,500	25,950	25,950	25,950	25,950	Corrected DB12.
F	San Angelo cost of Desal	37 of 48	appendix 4D	9,223,930										2,648,800	2,648,800	13,721,167	Corrected DB12.	
F	San Angelo cost of Desal phase II	38 of 48	appendix 4D	40,327,000	12,039,500							-	-					Not included in this planning cycle.
F	Snyder Cost for reuse	47 of 48	appendix 4D	9,643,000	1,104,000							-	-					Included with CRMWD costs.
F	Irrigation Costs for Irion Co.	2 of 6	appendix 4E			1,536								91,536				Corrected DB12.
F	Irrigation Costs for Mitchell Co.	4 of 6	appendix 4E			185,113								285,113				Corrected DB12.
F	Irrigation Costs for Ward Co.	6 of 6	appendix 4E				31,803								121,803			Corrected DB12.
F	CRMWD cost for reuse	appendix 4H	WMS Summary of Rec. Strategies	148,302,000							128,748,000							Appendix 4I in final plan. Correct table.
F	CRMWD Supplemental Wells cost	appendix 4H	Summary of Rec. Strategies	12,528,000							-							Appendix 4I in final plan. Correct table and DB12.
F	Bottle Water Program (McCulloch C-O) WMS Supply	Appendix4H	Summary	0	0	0	0	0	0	0		0	0	0	0	0	0	Appendix 4H was updated with the latest DB12 download. All numbers should match.
F	Bottle Water Program Richland SUD) WMS Supply	Appendix4H	Summary	0	0	0	0	0	0	0		1	1	1	1	1	1	
F	New Infrastructure Improvement - Bronte WMS Supply	Appendix4H	Summary	0	0	0	0	0	0	0		129	129	129	129	129	129	
F	New Infrastructure Improvement - San Angelo WMS Supp	Appendix4H	Summary	2,274	2,261	2,247	2,233	2,220	2,206		2,308	2,295	2,281	2,267	2,254	2,240	2,240	
F	Reuse-Odessa (Ector Co.) - WMS Supply	Appendix4H	Summary		4,293	4,273	4,262	4,258	4,256			3,943	4,168	3,912	3,958	4,006	4,006	
F	Reuse-Manufacturing(Ector Co.) WMS Supply	Appendix4H	Summary		NA	NA	NA	NA	NA			350	105	350	300	250	250	
F	Subordination-Coleman(Coleman Co.) WMS Supply	Appendix4H	Summary	1,650	1,651	1,647	1,645	1,639	1,631		2,030	2,031	2,027	2,025	2,019	2,011	2,011	
F	Subordination-Manufacturing (Ector Co.) WMS Supply	Appendix4H	Summary	66	149	3	46	86	158		366	449	108	396	386	408	408	
F	Subordination-Midland (Midland Co) WMS Supply	Appendix4H	Summary	4,488	6,055	0	0	0	0		4,505	6,055	0	0	0	0	0	
F	Subordination-Midland (Midland Co) WMS Supply	Appendix4H	Summary	17	-97	-211	-324	-438	-553		NA	NA	NA	NA	NA	NA	NA	
F	Subordination-Miles-Runnels Co-WMS Supply	Appendix4H	Summary	100	100	100	100	100	100		140	153	163	173	183	193	193	
F	Subordination-Snyder-Scurry Co-WMS Supply	Appendix4H	Summary	511							513							
F	Subordination-CRMWD WMS Supply	Appendix4H	Summary	35,166	30,548	46,240	43,696	41,857	38,746		47,618	46,809	36,022	35,443	33,975	33,381	33,381	
F	Voluntary Redistribution - CRMWD WMS Supply	Appendix4H	Summary	0	5,200	5,200	5,200	5,200	5,200		392	5,622	15,629	15,430	16,119	15,932	15,932	
F	Ballinger-Subordination-CRMWD-not listed in DB12	Appendix4H	1 of 99	141	169	68	115	0	0		NA	NA	NA	NA	NA	NA	NA	
F	Ballinger WMS Total	Appendix4H	1 of 99	1,091	1,187	1,095	1,144	1,524	1,542		950	1,018	1,027	1,029	1,631	1,634	1,634	
F	Ballinger Alternative WMS Supply - Direct Reuse not listed	Appendix4H	1 of 99	220	220	220	220	220	220		NA	NA	NA	NA	NA	NA	NA	
F	Bronte - Rehabilitation of Pipeline WMS Supply	Appendix4H	5 of 99	0	0	0	0	0	0		129	129	129	129	129	129	129	

REGION F			Non-matching numbers													Response	
Region IPP	Item	IPP document reference: Page number Table number	IPP document number						Online Planning Database (DB12) number								
			non-decadal number	non-decadal					non-decadal number	non-decadal							
				2010	2020	2030	2040	2050		2060	2010	2020	2030	2040	2050	2060	
F	Bronte WMS Total	Appendix4H 5 of 99		145	174	177	177	179	180		274	303	306	306	308	309	Appendix 4H was updated with the latest DB12 download. All numbers should match.
F	Coleman-Conservation WMS Supply	Appendix4H 6 of 99		50	109	141	163	181	187		33	75	90	95	101	107	
F	Coleman-Subordination-Coleman Lake WMS Supply	Appendix4H 6 of 99		6,415	4,084	4,017	3,952	3,883	3,811		1,650	1,651	1,647	1,645	1,639	1,631	
F	Coleman-Subordination-Hords Creek Lake WMS Supply	Appendix4H 6 of 99		647	643	640	637	633	630		380	380	380	380	380	380	
F	Coleman-Total WMS Supply	Appendix4H 6 of 99		4,854	4,836	4,798	4,752	4,697	4,628		2,063	2,106	2,117	2,120	2,120	2,118	
F	Runnels C-O Subordination (Winters Lake) WMS Supply	Appendix4H 20 of 99		114	89	69	49	31	0		23	0	0	0	0	0	
F	Runnels C-O Subordination Ballinger Lake) WMS Supply	Appendix4H 20 of 99		23	0	0	0	0	0		114	89	69	49	31	0	
F	Eden - New Hickory Well (Replacement Well in DB12) WM	Appendix4H 26 of 99		392	392	392	392	392	392		322	322	322	322	322	322	
F	Eden - New Reverse Osmosis (Advanced Treatment in DB	Appendix4H 26 of 99		0	0	0	0	0	0		0	392	392	392	392	392	
F	Eden - WMS Total	Appendix4H 26 of 99		392	392	392	392	392	392		322	714	714	714	714	714	
F	Menard-Alternative WMS-Aquifer Storage Recovery WM	Appendix4H 31 of 99		0	0						240	240					
F	Menard-Alternative WMS-Off Channel Reservoir not liste	Appendix4H 31 of 99		NA	NA	NA	NA	NA	NA		500	500	500	500	500	500	
F	Menard-Alternative WMS Total	Appendix4H 31 of 99		0	0	240	240	240	240		740	740	740	740	740	740	
F	Midland - Subordination-CMWD System WMS Supply	Appendix4H 32 of 99		4,488	6,055	0	0	0	0		4,505	6,055	0	0	0	0	
F	Midland - Subordination-OH Ivie LakeWMS Supply	Appendix4H 32 of 99		17	-97	-211	-324	-438	-553		17	-97	-211	-324	-438	-553	
F	Midland - WMS Totals	Appendix4H 32 of 99		5,849	13,963	31,839	31,726	31,608	31,499		5,849	14,060	32,050	32,050	32,046	32,052	
F	Millersview-Doole WSC-Subordination WMS Supply	Appendix4H 33 of 99		242	257	128	144				190	241	3	46	0	0	
F	Millersview-Doole WSC- WMS Supply Total	Appendix4H 33 of 99		242	257	128	144				190	241	3	46			
F	Odessa-New/Renew Water Supply WMS	Appendix4H 34 of 99			4,450	4,695	4,450	4,500	4,550			4,800	4,800	4,800	4,800	4,800	
F	Odessa-Subordination WMS Supply	Appendix4H 34 of 99		4,205							4,505						
F	Odessa - Reuse WMS - listed as alternative WMS in IPP.	Appendix4H 34 of 99		4,410	4,410	4,410	4,410	4,410	4,410		4,060	4,305	4,060	4,110	4,160		
F	Odessa-WMS Supply Total	Appendix4H 34 of 99		4,756	11,437	6,318	13,316	14,430	16,163		5,056	15,847	16,728	17,726	18,840	20,573	
F	Richland SUD - Replacement Well WMS Supply	Appendix4H 36 of 99		0	0	0	0	0	0		113	113	113	113	113	113	
F	Richland SUD Total WMS Supply	Appendix4H 36 of 99		1	1	1	1	1	1		114	114	114	114	114	114	
F	Robert Lee-New WTP and Storage Facilities WMS Supply	Appendix4H 37 of 99		NA	NA	NA	NA	NA	NA		200	200	200	200	200	200	
F	Robert Lee Total WMS Supply	Appendix4H 37 of 99		111	155	46	66	80	103		311	355	246	266	280	303	
F	Robert Lee-Alternative WMS-Develop Other Aquifer Supp	Appendix4H 37 of 99		NA	NA	NA	NA	NA	NA		150	150	150	150	150	150	
F	Robert Lee-Alternative WMS-New Reservoir Intake not lis	Appendix4H 37 of 99		NA	NA	NA	NA	NA	NA		50	50	50	50	50	50	
F	Robert Lee Total Alternative WMS Supply	Appendix4H 37 of 99			500	500	500	500	500		700	700	700	700	700	700	
F	San Angelo-Rehabilitation of Pipe WMS Supply	Appendix4H 38 of 99		0	0	2,247	2,233	2,220	2,206		2,308	2,295	2,281	2,267	2,254	2,240	
F	San Angelo-Subordination-OC Fisher Lake WMS Supply	Appendix4H 38 of 99		3,762	3,643	3,525	3,407	3,288	3,170		3,762	3,643	3,525	3,407	3,288	3,170	
F	San Angelo-Brush Control WMS Supply	Appendix4H 38 of 99		0	0	0	0	0	0		8,362	8,362	8,362	8,362	8,362	8,362	
F	San Angelo WMS Supply Total	Appendix4H 38 of 99									20,586	27,686	30,718	37,870	37,462	36,994	
F	Snyder-Subordination WMS Supply	Appendix4H 39 of 99		511							513						
F	Snyder WMS total Supply	Appendix4H 39 of 99		581							583						
F	Irrigation-Andrews Co WMS Supply	Appendix4H 43 of 99		2,728							2,727						
F	Manufacturing-Ector Co. Subordination WMS Supply	Appendix4H 76 of 99			149	3	46	86	158			449	108	396	386	408	
F	Manufacturing-Ector Co. WMS Supply total	Appendix4H 76 of 99			499	108	396	386	408			799	213	746	686	658	
F	Steam Electric-Mitchell Co-Alternative Generation Techno	Appendix4H 98 of 99		NA	NA	NA	NA	NA	NA		4,077	2,774	4,240	5,988	8,079	10,590	