

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Region M Summary**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1,209,647	1,163,633	1,082,231	981,749	981,749	981,749	981,749

<b>Current Water Supply Type</b>	<b>Source</b>							
<b>Total Supply (AF/yr)</b>		<b>735,291</b>	<b>752,996</b>	<b>746,007</b>	<b>739,519</b>	<b>733,031</b>	<b>726,541</b>	<b>720,552</b>
<b>Projected Supply Surplus/Deficit</b>		<b>-474,356</b>	<b>-410,638</b>	<b>-336,224</b>	<b>-242,230</b>	<b>-248,718</b>	<b>-255,208</b>	<b>-261,197</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Conservation	219,226	\$ 55,547,585.23	\$ 253.38		36,529	73,085	109,613	146,142	182,698	219,226
Conveyance System Conservation	218,783	\$ 26,402,708.30	\$ 120.68		91,160	182,319	191,435	200,551	209,667	218,783

<b>Total WMS Yield</b>					<b>127,688</b>	<b>255,404</b>	<b>301,048</b>	<b>346,693</b>	<b>392,365</b>	<b>438,009</b>
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**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Zapata County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	7,763	6,454	6,121	5,805	5,805	5,805	5,805

<b>Current Water Supply Type</b>	<b>Source</b>							
Surface Water	Amistad/Falcon	3,991	3,960	3,920	3,884	3,847	3,810	3,776
Surface Water	Tributaries	83	116	116	116	116	116	116
Ground Water		1,000	0	0	0	0	0	0
<b>Total Supply (AF/yr)</b>		<b>5,074</b>	<b>4,076</b>	<b>4,036</b>	<b>4,000</b>	<b>3,963</b>	<b>3,926</b>	<b>3,892</b>
<b>Projected Supply Surplus/Deficit</b>		<b>-2,689</b>	<b>-2,378</b>	<b>-2,085</b>	<b>-1,805</b>	<b>-1,842</b>	<b>-1,879</b>	<b>-1,913</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Conservation	0	\$ -	\$ 253.38		0	0	0	0	0	0
Conveyance System Conservation	0	\$ -	\$ 120.68		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Willacy County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	58,586	59,191	60,203	60,623	60,623	60,623	60,623

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	34,525	34,257	33,915	33,598	33,281	32,964	32,672
Surface Water	IRRIGATION LOCAL SUPPLY	899	899	899	899	899	899	899
Ground Water	GULF COAST	30	0	0	0	0	0	0
<b>Total Supply (AF/yr)</b>	<b>0</b>	<b>35,454</b>	<b>35,156</b>	<b>34,814</b>	<b>34,497</b>	<b>34,180</b>	<b>33,863</b>	<b>33,571</b>
<b>Projected Supply Surplus/Deficit</b>		<b>-23,132</b>	<b>-24,035</b>	<b>-25,389</b>	<b>-26,126</b>	<b>-26,443</b>	<b>-26,760</b>	<b>-27,052</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Conservation	7,808	\$ 1,978,391.04	\$ 253.38		1,301	2602.99	3904	5205.01	6506.99	7808
Conveyance System Conservation	9,345	\$ 1,127,718.40	\$ 120.68		3,894	7,787	8,177	8,566	8,955	9,345

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Webb County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	23,723	20,507	19,548	18,654	18,654	18,654	18,654

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	10603	10520	10415	10318	10221	10123	10034	
Surface Water	TRIBS TO RIO GRANDE	29.65	20	20	20	20	20	20	
Surface Water	TRIBS TO RIO GRANDE	148.25	98	98	98	98	98	98	
Surface Water	TRIBS TO RIO GRANDE	29.65	33	33	33	33	33	33	
Surface Water	TRIBS TO RIO GRANDE	118.6	0	0	0	0	0	0	
Surface Water	TRIBS TO RIO GRANDE	0	0	0	0	0	0	0	
Surface Water	TRIBS TO RIO GRANDE	0	0	0	0	0	0	0	
Surface Water	REUSE	795	1120	1120	1120	1120	1120	1120	
Ground Water	CARRIZO-WILCOX	1963	135.372	135.372	135.372	135.372	135.372	135.372	
Ground Water	CARRIZO-WILCOX	1014	1043.16	1043.16	1043.16	1043.16	1043.16	1043.16	
Ground Water	GULF COAST	6	47.1751	47.1751	47.1751	47.1751	47.1751	47.1751	
Ground Water	GULF COAST	28	67.3946	67.3946	67.3946	67.3946	67.3946	67.3946	
Ground Water	GULF COAST	56	363.525	363.525	363.525	363.525	363.525	363.525	
Ground Water	OTHER AQUIFER	446	22.562	22.562	22.562	22.562	22.562	22.562	
Ground Water	OTHER AQUIFER	62	32.2322	32.2322	32.2322	32.2322	32.2322	32.2322	
Ground Water	OTHER AQUIFER	492	173.86	173.86	173.86	173.86	173.86	173.86	
<b>Total Supply (AF/yr)</b>	<b>0</b>	<b>15791.2</b>	<b>13676.3</b>	<b>13571.3</b>	<b>13474.3</b>	<b>13377.3</b>	<b>13279.3</b>	<b>13190.3</b>	
<b>Projected Supply Surplus/Deficit</b>		<b>-7,932</b>	<b>-6,830</b>	<b>-5,977</b>	<b>-5,179</b>	<b>-5,276</b>	<b>-5,374</b>	<b>-5,463</b>	

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Conservation	0	\$ -	\$ 253.38		0	0	0	0	0	0
Conveyance System Conservation	0	\$ -	\$ 120.68		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Starr County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	30,693	31,191	30,108	29,070	29,070	29,070	29,070

<b>Current Water Supply</b>	<b>Type</b>							
Surface Water	AMISTAD/FALCON	15,896	15,773	15,616	15,470	15,324	15,178	15,043
Ground Water	GULF COAST	470	180	180	180	180	180	180
Ground Water	GULF COAST	1,523	576	576	576	576	576	576
Ground Water	OTHER AQUIFER	229	18	18	18	18	18	18
Ground Water	OTHER AQUIFER	1,927	5,821	5,821	5,821	5,821	5,821	5,821
<b>Total Supply (AF/yr)</b>	<b>0</b>	<b>20,045</b>	<b>22,368</b>	<b>22,211</b>	<b>22,065</b>	<b>21,919</b>	<b>21,773</b>	<b>21,638</b>
<b>Projected Supply Surplus/Deficit</b>		<b>-10,648</b>	<b>-8,823</b>	<b>-7,897</b>	<b>-7,005</b>	<b>-7,151</b>	<b>-7,297</b>	<b>-7,432</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Conservation	6,315	\$ 1,600,145.38	\$ 253.38		1,052	2105.33	3157.6	4209.87	5262.93	6315.2
Conveyance System Conservation	0	\$ -	\$ 120.68		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Maverick County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	93,145	95,040	91,693	87,863	87,863	87,863	87,863

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	54,176	53,755	53,219	52,722	52,224	51,727	51,268
Surface Water	REUSE	123	0	0	0	0	0	0
Surface Water	TRIBS TO RIO GRANDE	184	223	223	223	223	223	223
Surface Water	TRIBS TO RIO GRANDE	12	20	20	20	20	20	20
Ground Water	CARRIZO-WILCOX	37	729	729	729	729	729	729
Ground Water	CARRIZO-WILCOX	1,370	635	635	635	635	635	635
Ground Water	OTHER AQUIFER	879	4,224	4,224	4,224	4,224	4,224	4,224
Ground Water	OTHER AQUIFER	72	28	28	28	28	28	28
<b>Total Supply (AF/yr)</b>	<b>0</b>	<b>56,853</b>	<b>59,613</b>	<b>59,077</b>	<b>58,580</b>	<b>58,082</b>	<b>57,585</b>	<b>57,126</b>
<b>Projected Supply Surplus/Deficit</b>		<b>-36,292</b>	<b>-35,426</b>	<b>-32,616</b>	<b>-29,283</b>	<b>-29,781</b>	<b>-30,278</b>	<b>-30,737</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Water Conservation	12,918	\$ 3,273,061.49	\$ 253.38		2,152	4306.4	6458.8	8611.2	10765.2	12917.6
Conveyance System Conservation	24,944	\$ 3,010,290.19	\$ 120.68		10,394	20,787	21,826	22,866	23,905	24,944

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Jim Hogg County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	6,413	817	817	817	817	817	817

<b>Current Water Supply</b>	<b>Source</b>							
Ground Water	GULF COAST	4,799	735	735	735	735	735	735
Ground Water	GULF COAST	1,614	82	82	82	82	82	82
<b>Total Supply (AF/yr)</b>		<b>6,413</b>	<b>817</b>	<b>817</b>	<b>817</b>	<b>817</b>	<b>817</b>	<b>817</b>
<b>Projected Supply Surplus/Deficit</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Water Conservation	0	\$ -	\$ 253.38		0	0	0	0	0	0
Conveyance System Conservation	0	\$ -	\$ 120.68		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Hidalgo County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	611,399	583,030	525,971	453,772	453,772	453,772	453,772

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	360,331	357,532	353,969	350,661	347,353	344,045	340,991	
Surface Water	AMISTAD/FALCON	2,928	2,905	2,877	2,850	2,823	2,796	2,771	
Surface Water	REUSE	166	4,288	4,288	4,288	4,288	4,288	4,288	
Surface Water	IRRIGATION LOCAL SUPPLY	79	79	79	79	79	79	79	
Ground Water	GULF COAST	4,330	19,383	19,383	19,383	19,383	19,383	19,383	
Ground Water	GULF COAST	185	1,020	1,020	1,020	1,020	1,020	1,020	
<b>Total Supply (AF/yr)</b>		<b>0</b>	<b>368,019</b>	<b>385,207</b>	<b>381,616</b>	<b>378,281</b>	<b>374,946</b>	<b>371,611</b>	<b>368,532</b>
<b>Projected Supply Surplus/Deficit</b>			<b>-243,380</b>	<b>-197,823</b>	<b>-144,355</b>	<b>-75,491</b>	<b>-78,826</b>	<b>-82,161</b>	<b>-85,240</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Water Conservation	130,228	\$ 32,997,170.64	\$ 253.38		21,699	43414.76	65114	86813.24	108528.8	130228
Conveyance System Conservation	118,958	\$ 14,355,899.71	\$ 120.68		49,566	99,132	104,089	109,045	114,002	118,958

**WATER SUPPLY AND DEMAND ANALYSIS**

**Irrigation: Cameron County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	377,925	367,404	347,771	325,144	325,144	325,144	325,144

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	214,002	212,340	210,224	208,259	206,295	204,330	202,516	
Surface Water	AMISTAD/FALCON	10,300	10,220	10,118	10,023	9,929	9,834	9,747	
Surface Water	REUSE	236	239	239	239	239	239	239	
Surface Water	IRRIGATION LOCAL SUPPLY	2,610	2,610	2,610	2,610	2,610	2,610	2,610	
Ground Water	GULF COAST	494	6,673	6,673	6,673	6,673	6,673	6,673	
<b>Total Supply (AF/yr)</b>		<b>227,642</b>	<b>232,082</b>	<b>229,864</b>	<b>227,804</b>	<b>225,746</b>	<b>223,686</b>	<b>221,785</b>	
<b>Projected Supply Surplus/Deficit</b>		<b>-150,283</b>	<b>-135,322</b>	<b>-117,907</b>	<b>-97,340</b>	<b>-99,398</b>	<b>-101,458</b>	<b>-103,359</b>	

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
On-Farm Water Conservation	61,958	\$ 15,698,816.69	\$ 253.38		10,324	20655.1	30978.8	41302.5	51633.9	61957.6
Conveyance System Conservation	65,535	\$ 7,908,800.00	\$ 120.68		27,306	54,613	57,343	60,074	62,805	65,535

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Summary**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	3869	4186	4341	4433	4523	4612	4692

**Current Water Supply**

**Source**

<b>Total Supply (AF/yr)</b>	<b>17,842</b>	<b>4,941</b>	<b>5,087</b>	<b>5,168</b>	<b>5,249</b>	<b>5,329</b>	<b>5,397</b>
<b>Projected Supply Surplus/Deficit</b>	<b>13,973</b>	<b>755</b>	<b>746</b>	<b>735</b>	<b>726</b>	<b>717</b>	<b>705</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Zapata County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	27	24	23	23	23	23	23

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	135	134	132	131	130	129	127
Groundwater	OTHER AQUIFER	1,000	0	0	0	0	0	0
<b>Total Supply (AF/yr)</b>		<b>1,135</b>	<b>134</b>	<b>132</b>	<b>131</b>	<b>130</b>	<b>129</b>	<b>127</b>
<b>Projected Supply Surplus/Deficit</b>		<b>1,108</b>	<b>110</b>	<b>109</b>	<b>108</b>	<b>107</b>	<b>106</b>	<b>104</b>

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Willacy County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	6	6	6	6	6	6	6

<b>Current Water Supply</b>	<b>Source</b>						
Surface Water	AMISTAD/FALCON	0	0	0	0	0	0
Ground Water	GULF COAST	30	6	6	6	6	6
<b>Total Supply (AF/yr)</b>		<b>30</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Projected Supply Surplus/Deficit</b>		<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Webb County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1262	1204	1192	1189	1187	1185	1180

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	228	226	224	222	220	218	216
Surface Water	AMISTAD/FALCON	313	311	308	305	302	299	297
Surface Water	AMISTAD/FALCON	111	110	109	108	107	106	104
Ground Water	CARRIZO-WILCOX	6,046	360	357	356	356	355	354
Ground Water	CARRIZO-WILCOX	3,122	158	156	156	155	155	154
Ground Water	GULF COAST	120	126	124	124	124	124	123
Ground Water	GULF COAST	518	96	95	95	95	95	94
Ground Water	GULF COAST	103	55	54	54	54	54	54
Ground Water	OTHER AQUIFER	9	60	60	59	59	59	59
Ground Water	OTHER AQUIFER	1	46	46	46	45	45	45
Ground Water	OTHER AQUIFER	10	26	26	26	26	26	26
<b>Total Supply (AF/yr)</b>		<b>10,581</b>	<b>1,574</b>	<b>1,559</b>	<b>1,551</b>	<b>1,543</b>	<b>1,536</b>	<b>1,526</b>
<b>Projected Supply Surplus/Deficit</b>		<b>9,319</b>	<b>370</b>	<b>367</b>	<b>362</b>	<b>356</b>	<b>351</b>	<b>346</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Starr County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1203	1315	1355	1373	1390	1407	1426

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	12	11	11	11	11	11	11	11
Surface Water	AMISTAD/FALCON	9	9	9.11787	8.70996	8.71814	8.71727	8.30135	
Ground Water	GULF COAST	775	700.7	721.63	730.73	739.83	748.93	759.85	
Ground Water	GULF COAST	502	495.95	511.42	518.7	525.07	531.44	537.81	
Ground Water	OTHER AQUIFER	229	69.3	71.37	72.27	73.17	74.07	75.15	
Ground Water	OTHER AQUIFER	771	49.05	50.58	51.3	51.93	52.56	53.19	
<b>Total Supply (AF/yr)</b>		<b>2298</b>	<b>1335</b>	<b>1375.12</b>	<b>1392.71</b>	<b>1409.72</b>	<b>1426.72</b>	<b>1445.3</b>	
<b>Projected Supply Surplus/Deficit</b>		<b>1095</b>	<b>20</b>	<b>20.1179</b>	<b>19.71</b>	<b>19.7181</b>	<b>19.7173</b>	<b>19.3014</b>	

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract		\$ -	\$ 455.56						
Desalination:	0			0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Maverick County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	140	156	162	166	169	172	175

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	35	35	35	34	34	34	33
Ground Water	CARRIZO-WILCOX	61	55	57	59	60	61	62
Ground Water	CARRIZO-WILCOX	55	24	26	26	27	27	28
Ground Water	OTHER AQUIFER	387	53	55	56	57	58	59
Ground Water	OTHER AQUIFER	55	24	25	25	25	26	26
<b>Total Supply (AF/yr)</b>		<b>593</b>	<b>191</b>	<b>197</b>	<b>200</b>	<b>203</b>	<b>206</b>	<b>208</b>
<b>Projected Supply Surplus/Deficit</b>		<b>453</b>	<b>35</b>	<b>35</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>33</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract		\$ -	\$ 455.56						
Desalination:	0			0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Jim Hogg County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	27	33	36	37	38	39	40

<b>Current Water Supply</b>	<b>Source</b>							
Ground Water	GULF COAST	1,140	37	37	37	37	37	37
Ground Water	GULF COAST	160	4	4	4	4	4	4
<b>Total Supply (AF/yr)</b>		<b>1,300</b>	<b>41</b>	<b>41</b>	<b>41</b>	<b>41</b>	<b>41</b>	<b>41</b>
<b>Projected Supply Surplus/Deficit</b>		<b>1,273</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Hidalgo County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1196	1442	1561	1633	1704	1774	1836

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	174	183	182	181	179	177	175
Surface Water	AMISTAD/FALCON	33	23	22	21	21	21	20
Ground Water	GULF COAST	928	1,291	1,398	1,462	1,526	1,589	1,644
Ground Water	GULF COAST	272	151	163	171	178	185	192
<b>Total Supply (AF/yr)</b>		<b>1,407</b>	<b>1,648</b>	<b>1,765</b>	<b>1,835</b>	<b>1,904</b>	<b>1,972</b>	<b>2,031</b>
<b>Projected Supply Surplus/Deficit</b>		<b>211</b>	<b>206</b>	<b>204</b>	<b>202</b>	<b>200</b>	<b>198</b>	<b>195</b>

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Mining: Cameron County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	8	6	6	6	6	6	6

<b>Current Water Supply</b>	<b>Source</b>						
Surface Water	AMISTAD/FALCON	4	4	4	4	4	4
Ground Water	GULF COAST	494	8	8	8	8	8
<b>Total Supply (AF/yr)</b>		<b>498</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>
<b>Projected Supply Surplus/Deficit</b>		<b>490</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Summary**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	6780	13463	16864	19716	23192	27430	32598

**Current Water Supply**

<b>Total Supply (AF/yr)</b>	<b>21,883</b>	<b>16,216</b>	<b>16,216</b>	<b>16,216</b>	<b>16,216</b>	<b>16,216</b>	<b>16,216</b>
<b>Projected Supply Surplus/Deficit</b>	<b>0</b>	<b>2,753</b>	<b>-649</b>	<b>-3,501</b>	<b>-6,977</b>	<b>-11,215</b>	<b>-16,383</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	118	400
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	10,800	\$ 4,484,376.00	\$ 415.22		0	1,000	2,000	4,000	7,250	10,800
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:					0	0	0	0	0	0
Purchase	5,183	\$ 2,813,021.42	\$ 542.74		0	980	2,374	3,291	3,847	5,183
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Zapata County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

**Current Water Supply**

<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Willacy County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

**Current Water Supply**

<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Webb County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1795	1492	1190	1391	1636	1935	2300

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	2,195	1,645	1,645	1,645	1,645	1,645	1,645	1,645
<b>Total Supply (AF/yr)</b>		<b>2,195</b>	<b>1,645</b>	<b>1,645</b>	<b>1,645</b>	<b>1,645</b>	<b>1,645</b>	<b>1,645</b>	<b>1,645</b>
<b>Projected Supply Surplus/Deficit</b>		<b>400</b>	<b>153</b>	<b>455</b>	<b>254</b>	<b>9</b>	<b>-291</b>	<b>-656</b>	

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	256	\$ 77,941.76	\$ 304.46		0	0	0	0	91	256
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	400	\$ 166,088.00	\$ 415.22		0	0	0	0	200	400
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Starr County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

**Current Water Supply**

<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Maverick County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

**Current Water Supply**

<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Jim Hogg County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

**Current Water Supply**

<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Hidalgo County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	3487	10355	14151	16545	19462	23018	27354

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	6,243	5,941	5,941	5,941	5,941	5,941	5,941	5,941
Surface Water	REUSE	9,856	5,040	5,040	5,040	5,040	5,040	5,040	5,040
Ground Water	GULF COAST	1,190	1,190	1,190	1,190	1,190	1,190	1,190	1,190
<b>Total Supply (AF/yr)</b>		<b>17,289</b>	<b>12,171</b>	<b>12,171</b>	<b>12,171</b>	<b>12,171</b>	<b>12,171</b>	<b>12,171</b>	<b>12,171</b>
<b>Projected Supply Surplus/Deficit</b>		<b>13,802</b>	<b>1,816</b>	<b>-1,980</b>	<b>-4,374</b>	<b>-7,291</b>	<b>-10,847</b>	<b>-15,183</b>	

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	10,000	\$ 4,152,200.00	\$ 415.22		0	1000	2000	4000	7000	10000
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	5,183	\$ 2,813,021.42	\$ 542.74		0	980	2374	3291	3847	5183
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Steam Electric: Cameron County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1498	1616	1523	1780	2094	2477	2944

<b>Current Water Supply</b>	<b>Source</b>						
Surface Water	<u>AMISTAD/FALCON</u>	2400	2400	2400	2400	2400	2400
<b>Total Supply (AF/yr)</b>		<b>2400</b>	<b>2400</b>	<b>2400</b>	<b>2400</b>	<b>2400</b>	<b>2400</b>
<b>Projected Supply Surplus/Deficit</b>		<b>902</b>	<b>784</b>	<b>877</b>	<b>620</b>	<b>306</b>	<b>-544</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	144	\$ 43,842.24	\$ 304.46		0	0	0	0	27	144
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	400	\$ 166,088.00	\$ 415.22		0	0	0	0	50	400
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock Summary**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	5,817	5,817	5,817	5,817	5,817	5,817	5,817

**Current Water Supply**

**Source**

<b>Total Supply (AF/yr)</b>	<b>24,588</b>	<b>5,817</b>	<b>5,817</b>	<b>5,817</b>	<b>5,817</b>	<b>5,817</b>	<b>5,817</b>
<b>Projected Supply Surplus/Deficit</b>	<b>18,771</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Zapata County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	474	474	474	474	474	474	474

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	LIVESTOCK LOCAL SUPPLY	446	0	0	0	0	0	0	0
Ground Water	OTHER AQUIFER	80	474	474	474	474	474	474	474
<b>Total Supply (AF/yr)</b>		<b>526</b>	<b>474</b>	<b>474</b>	<b>474</b>	<b>474</b>	<b>474</b>	<b>474</b>	<b>474</b>
<b>Projected Supply Surplus/Deficit</b>		<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract		\$ -	\$ 455.56						
Desalination:	0			0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Willacy County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	151	151	151	151	151	151	151

<b>Current Water Supply</b>	<b>Source</b>						
Ground Water	Gulf Coast	240	151	151	151	151	151
<b>Total Supply (AF/yr)</b>		<b>240</b>	<b>151</b>	<b>151</b>	<b>151</b>	<b>151</b>	<b>151</b>
<b>Projected Supply Surplus/Deficit</b>		<b>89</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Webb County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1,513	1,513	1,513	1,513	1,513	1,513	1,513

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	LIVESTOCK LOCAL SUPPLY	313	0	0	0	0	0	0
Ground Water	GULF COAST	37	153	153	153	153	153	153
Ground Water	GULF COAST	159	21	21	21	21	21	21
Ground Water	GULF COAST	37	174	174	174	174	174	174
Ground Water	CARRIZO-WILCOX	11,170	440	440	440	440	440	440
Ground Water	CARRIZO-WILCOX	5,768	499	499	499	499	499	499
Ground Water	OTHER AQUIFER	36	73	73	73	73	73	73
Ground Water	OTHER AQUIFER	5	70	70	70	70	70	70
Ground Water	OTHER AQUIFER	39	83	83	83	83	83	83
<b>Total Supply (AF/yr)</b>		<b>17,564</b>	<b>1,513</b>	<b>1,513</b>	<b>1,513</b>	<b>1,513</b>	<b>1,513</b>	<b>1,513</b>
<b>Projected Supply Surplus/Deficit</b>		<b>16,051</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract		\$ -	\$ 455.56							
Desalination:	0			0	0	0	0	0	0	
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Starr County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1,117	1,117	1,117	1,117	1,117	1,117	1,117

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	LIVESTOCK LOCAL SUPPLY	679	0	0	0	0	0	0	0
Surface Water	LIVESTOCK LOCAL SUPPLY	37	0	0	0	0	0	0	0
Ground Water	GULF COAST	399	224	224	224	224	224	224	224
Ground Water	GULF COAST	259	793	793	793	793	793	793	793
Ground Water	OTHER AQUIFER	2	22	22	22	22	22	22	22
Ground Water	OTHER AQUIFER	8	78	78	78	78	78	78	78
<b>Total Supply (AF/yr)</b>		<b>1,384</b>	<b>1,117</b>	<b>1,117</b>	<b>1,117</b>	<b>1,117</b>	<b>1,117</b>	<b>1,117</b>	<b>1,117</b>
<b>Projected Supply Surplus/Deficit</b>		<b>267</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Maverick County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	260	260	260	260	260	260	260

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	LIVESTOCK LOCAL SUPPLY	761	0	0	0	0	0	0	0
Surface Water	LIVESTOCK LOCAL SUPPLY	436	0	0	0	0	0	0	0
Ground Water	CARRIZO-WILCOX	95	1	1	1	1	1	1	1
Ground Water	CARRIZO-WILCOX	87	80	80	80	80	80	80	80
Ground Water	OTHER AQUIFER	141	103	103	103	103	103	103	103
Ground Water	OTHER AQUIFER	19	76	76	76	76	76	76	76
<b>Total Supply (AF/yr)</b>		<b>1,539</b>	<b>260</b>	<b>260</b>	<b>260</b>	<b>260</b>	<b>260</b>	<b>260</b>	<b>260</b>
<b>Projected Supply Surplus/Deficit</b>		<b>1,279</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	104	\$ 56,444.96	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Jim Hogg County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	518	518	518	518	518	518	518

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	LIVESTOCK LOCAL SUPPLY	120	0	0	0	0	0	0
Surface Water	LIVESTOCK LOCAL SUPPLY	139	0	0	0	0	0	0
Ground Water	GULF COAST	636	383	383	383	383	383	383
Ground Water	GULF COAST	89	135	135	135	135	135	135
<b>Total Supply (AF/yr)</b>		<b>984</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>
<b>Projected Supply Surplus/Deficit</b>		<b>466</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Hidalgo County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	681	681	681	681	681	681	681

<b>Current Water Supply</b>	<b>Supply</b>							
Surface Water	LIVESTOCK LOCAL SUPPLY	725	0	0	0	0	0	0
Surface Water	LIVESTOCK LOCAL SUPPLY	38	0	0	0	0	0	0
Ground Water	GULF COAST	71	647	647	647	647	647	647
Ground Water	GULF COAST	21	34	34	34	34	34	34
<b>Total Supply (AF/yr)</b>		<b>855</b>	<b>681</b>	<b>681</b>	<b>681</b>	<b>681</b>	<b>681</b>	<b>681</b>
<b>Projected Supply Surplus/Deficit</b>		<b>174</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Livestock: Cameron County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	1,103	1,103	1,103	1,103	1,103	1,103	1,103

<b>Current Water Supply</b>	<b>Source</b>						
Surface Water	AMISTAD/FALCON	73	0	0	0	0	0
Surface Water	LIVESTOCK LOCAL SUPPLY	826	0	0	0	0	0
Ground Water	GULF COAST	597	1103	1103	1103	1103	1103
<b>Total Supply (AF/yr)</b>		<b>1496</b>	<b>1103</b>	<b>1103</b>	<b>1103</b>	<b>1103</b>	<b>1103</b>
<b>Projected Supply Surplus/Deficit</b>		<b>393</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Summary**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	6,208	7,509	8,274	8,966	9,654	10,256	11,059

**Current Water Supply**

**Source**

<b>Total Supply (AF/yr)</b>	<b>7,517</b>	<b>6,549</b>	<b>6,552</b>	<b>6,555</b>	<b>6,558</b>	<b>6,560</b>	<b>6,563</b>
<b>Projected Supply Surplus/Deficit</b>	<b>0</b>	<b>-960</b>	<b>-1,722</b>	<b>-2,411</b>	<b>-3,096</b>	<b>-3,696</b>	<b>-4,496</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		1,000	1,000	1,000	1,000	1,100	1,200
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	3,020	\$ 1,253,964.40	\$ 415.22		811	1,245	1,638	2,027	2,464	3,020
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	304	\$ 164,992.96	\$ 542.74		110	110	110	110	165	304
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Zapata County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

<b>Current Water Supply</b>	<b>Source</b>						
<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Willacy County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	25	25	25	25	25	25	25

<b>Current Water Supply</b>	<b>Supple</b>						
Surface Water	AMISTAD/FALCON	0	0	0	0	0	0
Surface Water*	OTHER LOCAL SUPPLY	0	0	0	0	0	0
<b>Total Supply (AF/yr)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Projected Supply Surplus/Deficit</b>		<b>-25</b>	<b>-25</b>	<b>-25</b>	<b>-25</b>	<b>-25</b>	<b>-25</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	15	\$ 6,228.30	\$ 415.22		15	15	15	15	15	15
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	10	\$ 5,427.40	\$ 542.74		10	10	10	10	10	10
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Webb County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	23	28	31	34	37	39	42

<b>Current Water Supply</b>	<b>Supply</b>							
Surface Water	AMISTAD/FALCON	43.4145	0	0	0	0	0	0
Ground Water	OTHER AQUIFER	4	2.74393	3.04287	3.33693	3.63274	3.82508	4.11875
Ground Water	OTHER AQUIFER	1	4.11165	4.55012	4.99202	5.43113	5.72607	6.16722
Ground Water	OTHER AQUIFER	5	21.1444	23.407	25.6711	27.9361	29.4488	31.714
<b>Total Supply (AF/yr)</b>		<b>53.4145</b>	<b>28</b>	<b>31</b>	<b>34</b>	<b>37</b>	<b>39</b>	<b>42</b>
<b>Projected Supply Surplus/Deficit</b>		<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract		\$ -	\$ 455.56						
Desalination:	0			0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Starr County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

<b>Current Water Supply</b>	<b>Source</b>						
<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Maverick County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	56	64	69	73	77	80	85

<b>Current Water Supply</b>	<b>Source</b>						
Surface Water	<u>AMISTAD/FALCON</u>	76	114	114	114	114	114
<b>Total Supply (AF/yr)</b>		<b>76</b>	<b>114</b>	<b>114</b>	<b>114</b>	<b>114</b>	<b>114</b>
<b>Projected Supply Surplus/Deficit</b>		<b>20</b>	<b>50</b>	<b>45</b>	<b>41</b>	<b>37</b>	<b>29</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract		\$ -	\$ 455.56						
Desalination:	0			0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Jim Hogg County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	0	0	0	0	0	0	0

<b>Current Water Supply</b>	<b>Source</b>						
<b>Total Supply (AF/yr)</b>	0	0	0	0	0	0	0
<b>Projected Supply Surplus/Deficit</b>	0	0	0	0	0	0	0

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Hidalgo County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	2,674	3,236	3,559	3,851	4,143	4,403	4,742

<b>Current Water Supply</b>	<b>Source</b>							
Surface Water	AMISTAD/FALCON	3,718	3,240	3,240	3,240	3,240	3,240	3,240
Ground Water	GULF COAST	60	908	908	908	908	908	908
Ground Water	GULF COAST	17	0	0	0	0	0	0
<b>Total Supply (AF/yr)</b>		<b>3,795</b>	<b>4,148</b>	<b>4,148</b>	<b>4,148</b>	<b>4,148</b>	<b>4,148</b>	<b>4,148</b>
<b>Projected Supply Surplus/Deficit</b>		<b>1,121</b>	<b>912</b>	<b>589</b>	<b>297</b>	<b>5</b>	<b>-255</b>	<b>-594</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	200	\$ 60,892.00	\$ 304.46		0	0	0	0	100	200
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	200	\$ 83,044.00	\$ 415.22		0	0	0	0	100	200
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	194	\$ 105,291.56	\$ 542.74		0	0	0	0	55	194
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

912      589      297      5      0      0

**WATER SUPPLY AND DEMAND ANALYSIS**

**Manufacturing: Cameron County**

<b>Year</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Water Demand</b>	3,430	4,156	4,590	4,983	5,372	5,709	6,165

<b>Current Water Supply</b>	<b>Source</b>								
Surface Water	AMISTAD/FALCON	1,354	20	20	20	20	20	20	20
Surface Water	INDIRECT REUSE	2,239	2,240	2,240	2,240	2,240	2,240	2,240	2,240
<b>Total Supply (AF/yr)</b>		<b>3,593</b>	<b>2,260</b>	<b>2,260</b>	<b>2,260</b>	<b>2,260</b>	<b>2,260</b>	<b>2,260</b>	<b>2,260</b>
<b>Projected Supply Surplus/Deficit</b>		<b>163</b>	<b>-1,896</b>	<b>-2,330</b>	<b>-2,723</b>	<b>-3,112</b>	<b>-3,449</b>	<b>-3,905</b>	

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		1,000	1000	1000	1000	1000	1000
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	2,805	\$ 1,164,692.10	\$ 415.22		796	1230	1623	2012	2349	2805
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	100	\$ 54,274.00	\$ 542.74		100	100	100	100	100	100
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract		\$ -	\$ 455.56							
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

0      0      0      0      0      0

DBWUGI\_wug\_name wug\_wmpg\_wug\_bas wug\_county city\_id PCS\_2010PCS\_2020PCS\_2030PCS\_2040PCS\_2050PCS\_2060CNWD\_2010CNWD\_2020CNWD\_2030CNWD\_2040CNWD\_2050CNWD\_2060

2544 BROWNSVILLE	M	N-RG	CAMERON	0080	866.94	1869.22	3027.98	3801.12	4673.38	5170.53	4331.9	51637	60009	68737	77384	85910
2545 BROWNSVILLE	RO	N-RG	CAMERON	0080	7.5	14.51	23.5	29.49	38.16	48.12	43.7	481	488	533	601	687
2546 COMBES	M	N-RG	CAMERON	0050	17.3	36.85	52.24	70.23	84.79	93.5	208	229	256	281	309	341
2587 COUNTY OTHER	M	N-RG	CAMERON	0757	252.08	462.12	653.62	875.23	1046.65	1140.3	6907	7798	8693	9555	10466	11403
2588 COUNTY OTHER	M	RG	CAMERON	0757	0.46	0.94	1.59	1.99	2.37	13	14	16	17	19	21	24
2579 EAST RIO HONDO WSC	M	N-RG	CAMERON	4099	111.48	236.75	334.25	491.25	574	652.71	2498	3107	3862	4555	5323	6052
3781 EL JARDIN	M	N-RG	CAMERON	4103	60.48	126.48	181.28	233	293.87	326.75	1889	2319	2755	3194	3635	4072
3782 EL JARDIN	M	RG	CAMERON	4103	0.34	0.68	1.03	1.32	1.64	11	13	16	18	20	23	25
2553 HARLINGEN	M	N-RG	CAMERON	2025	299.32	600.43	970.87	1300.37	1555.37	1894.84	11374	12780	14175	15904	17109	18643
3774 INDIAN LAKE	M	N-RG	CAMERON	1028	3.13	6.76	10.47	13.96	17.64	19.08	67	67	66	76	65	56
2622 IRRIGATION	M	N-RG	CAMERON	1004							153281	144873	135181	135181	135181	135181
2623 IRRIGATION	M	N-RG	CAMERON	1004							5687	5623	5623	5623	5623	5623
2556 LA FERIA	M	N-RG	CAMERON	0335	53.46	99.78	146.73	187	231.77	259.52	855	1031	1214	1403	1587	1777
3764 LAGUNA MADRE WD	M	N-RG	CAMERON	4224	34.61	76.67	102.46	149.06	178.82	207.13	2310	3396	4516	5622	6744	7812
2560 LAGUNA VISTA	M	N-RG	CAMERON	1225	12.18	27.41	40.54	51.67	64.16	71.94	294	323	362	444	503	584
2633 LIVESTOCK	M	N-RG	CAMERON	1004							1048	1048	1048	1048	1048	1048
2634 LIVESTOCK	M	N-RG	CAMERON	1004							356	356	356	356	356	356
2562 LOS FRESNOS	M	N-RG	CAMERON	0369	29.79	59.87	100.75	136.81	180.28	182.81	787	1008	1247	1490	1745	1988
3785 LOS INDIOS	M	N-RG	CAMERON	1040	7.94	15.26	24.61	30.78	37.61	41.68	230	271	311	354	396	439
2602 MANUFACTURING	M	N-RG	CAMERON	1001							4186	4980	6283	8232	9788	11663
3768 MILITARY HIGHWAY WSC	M	N-RG	CAMERON	4255	63.16	124.22	203.71	258.03	318.32	355.21	1495	1755	2037	2344	2645	2951
3769 MILITARY HIGHWAY WSC	M	N-RG	CAMERON	4255	0.91	1.78	2.92	3.7	4.56	5.08	31	35	39	34	38	42
2609 MINING	M	N-RG	CAMERON	1003							6	6	6	6	6	6
3771 OLMITO WSC	M	N-RG	CAMERON	4252	40.67	80	118.68	164.07	194.64	223.71	952	1314	1691	2080	2444	2809
2567 PALM VALLEY	M	N-RG	CAMERON	0753	7.85	15.95	20.02	27.26	31.1	32.82	413	440	468	494	525	555
3772 PALM VALLEY ESTATES UD	M	N-RG	CAMERON	4255	1.54	3.48	5.51	8.01	9.28	10.49	80	108	132	155	180	203
2570 PORT ISABEL	M	N-RG	CAMERON	1477	23.87	44.87	69.21	95.59	111.15	117.83	2645	2849	3052	3254	3470	3681
2571 PRINERA	M	N-RG	CAMERON	0735	23.18	42.51	67.36	84.49	103.39	115.2	525	628	730	838	945	1053
2573 RANCHO VIEJO	M	N-RG	CAMERON	0943	11.94	28.45	41.53	56.61	66.61	76.12	373	496	627	755	888	1015
2576 RIO HONDO	M	N-RG	CAMERON	0503	11.75	29.28	29.69	40.84	46.81	49.33	404	428	453	476	503	533
2578 SAN BENITO	M	N-RG	CAMERON	0552	120.63	239.83	385.33	513.33	611.29	663.79	4916	5484	6050	6630	7241	7863
2581 SANTA ROSA	M	N-RG	CAMERON	0541	18.45	41.82	69.87	95.82	120.87	131	379	429	478	531	588	646
2583 SOUTH PADRE ISLAND	M	N-RG	CAMERON	0805	21.53	40.61	60.14	77.05	95.86	107.64	2504	3136	3789	4443	5095	5722
2606 STEAM ELECTRIC POWER	M	N-RG	CAMERON	1002							1616	1523	1790	2094	2477	2944
3776 VALLEY MUD #2	M	RG	CAMERON	4369	3.58	7.16	10.75	14.33	16.72	16.72	734	731	727	724	721	721
3778 VALLEY MUD #2	M	RG	CAMERON	4369	0.6	1.21	1.81	2.42	2.82	2.82	124	123	123	122	122	122
2542 WILCOX	M	N-RG	CAMERON	0753	24.77	54.7	89.48	123.54	150.86	179.11	749	922	1098	1277	1458	1644
2543 ALTON	M	N-RG	CAMERON	0735	55.3	121.64	192.19	256.59	333.96	387.03	3346	4153	5061	6056	7135	8288
2589 COUNTY OTHER	M	N-RG	CAMERON	0757	424.61	922.64	1493.86	2048.57	2491.34	2945.55	9341	12340	15686	19398	23554	27849
2590 COUNTY OTHER	RG	N-RG	CAMERON	0757	24.77	54.7	89.48	123.54	150.86	179.11	749	922	1098	1277	1458	1644
2547 DONNA	M	N-RG	CAMERON	0168	75.08	149.61	242.87	329.3	401.53	447.47	2309	2565	2842	3156	3521	3924
2548 EDCUCH	M	N-RG	CAMERON	0735	21.19	43.23	65.3	85.86	103.82	114.94	489	547	604	668	743	829
2550 EDDINBURG	M	N-RG	CAMERON	0182	362.88	751.56	1060.93	1892.73	2211.93	8274	10428	12967	15528	18583	21717	
2552 ELSA	M	N-RG	CAMERON	0190	19.62	48.42	73.4	101.38	116.17	123.35	1099	1134	1182	1232	1303	1383
2555 HIDALGO	M	N-RG	CAMERON	0278	47.81	109.28	176.37	256.35	307.07	365.28	1387	1712	2028	2328	2647	2947
3780 HIDALGO	M	RG	CAMERON	0278	1.96	4.12	7.25	10.29	12.62	15.01	42	57	73	91	112	133
3783 HIDALGO COUNTY MUD #1	M	N-RG	CAMERON	1004	29.57	66.99	100.17	141.12	173.68	207.08	1033	1287	1561	1851	2160	2488
2624 IRRIGATION	M	RG	CAMERON	1004							528251	471384	403600	403500	403500	403500
2625 IRRIGATION	M	RG	CAMERON	1004							21309	19131	16376	16376	16376	16376
2558 LA JOYA	RG	N-RG	CAMERON	0338	6.59	12.99	20.47	29.22	35.13	39.99	120	160	182	208	237	267
3751 LA JOYA	M	N-RG	CAMERON	0338	15.59	29.77	48.37	66.69	83.02	94.5	287	331	378	431	492	560
2559 LA VILLA	M	N-RG	CAMERON	0349	5.85	10.23	14.62	19.2	21.93	21.93	234	239	225	221	210	218
2635 LIVESTOCK	M	N-RG	CAMERON	1005							647	647	647	647	647	647
2636 LIVESTOCK	M	N-RG	CAMERON	1005							34	34	34	34	34	34
2603 MANUFACTURING	M	N-RG	CAMERON	1001							3208	3059	3851	4163	4603	4742
2564 MCALLEN	M	N-RG	CAMERON	0376	571.01	1362.32	2011.35	2814.13	3522.33	4008.68	28993	33547	39221	45281	52025	59045
3752 MCALLEN	M	RG	CAMERON	0376	0.08	0.18	0.27	0.38	0.47	0.52	4	6	8	10	12	8
2565 MERCEDES	M	N-RG	CAMERON	0397	65.17	139.75	209.63	282.92	326.45	350.38	1890	1956	2048	2142	2285	2453
3767 MILITARY HIGHWAY WSC	M	N-RG	CAMERON	4255	57.47	107.96	173.12	217.97	270.59	305.93	1333	1525	1731	1980	2248	2542
3768 MILITARY HIGHWAY WSC	M	N-RG	CAMERON	4255	0.58	1.08	1.74	2.19	2.72	3.07	33	35	37	23	23	26
2610 MINING	M	N-RG	CAMERON	1003							1291	1398	1462	1526	1589	1644
2611 MINING	M	N-RG	CAMERON	1003							181	181	178	185	192	192
2566 MISSION	M	N-RG	CAMERON	0408	342.51	712.87	1121.9	1645.99	1973.34	2309.15	6964	12594	15554	18792	22529	26363
3769 NORTH ALAMO WSC	M	N-RG	CAMERON	4273	641.5	1377.98	2214.67	3022.03	3911.94	4318.38	11675	15108	19046	23382	28297	33369
3776 PALMBURST	M	N-RG	CAMERON	1051	10.24	19.63	29.1	39.87	50.7	63.87	497	578	667	763	866	987
2568 PALMVIEW	M	N-RG	CAMERON	0474	28.04	58.85	90.85	131.12	160.93	191.52	889	1199	1507	1867	2414	2873
3757 PENTAS	M	N-RG	CAMERON	0582	4.04	8.34	14.39	19.47	25.72	29.87	159	159	151	151	151	161
2569 PHARR	M	N-RG	CAMERON	0463	333.64	669	1025.53	1353.35	1744.8	2020.17	8474	10370	12511	14887	17448	20202
2572 PROGRESO	M	N-RG	CAMERON	0941	21.33	45.35	78.85	109.11	128.86	151.14	576	717	867	1037	1234	1436
3775 SAN JUAN	M	N-RG	CAMERON	0638	218.84	454.64	784.69	1097.62	1342.41	1603.61	9001	4965	903	1784	303	10720
3774 SHARVLDAN WSC	M	N-RG	CAMERON	4333	142.86	285.71	465.29	685.24	891.94	995.83	4893	5469	6055	6747	7462	8305
2607 STEAM ELECTRIC POWER	M	N-RG	CAMERON	1004							1616	1523	1790	2094	2477	2944
2584 SULLIVAN CITY	M	RG	CAMERON	0956	30.96	65.55	93.93	141.49	170.64	200.55	526	672	845	1016	1228	1440
2585 WESLACO	M	N-RG	CAMERON	0838	172.94	357.73	546.34	724.96	879.22	984.34	5534	6201	6966	7819	8792	9843
2591 COUNTY OTHER	M	N-RG	CAMERON	0757	3.33	7.13	10.31	13.64	14.47	13.63	147	147	156	147	148	142
2592 COUNTY OTHER	M	RG	JIM HOGG	0757	1.18	2.36	3.54	4.72	5.9	6.08	16	16	17	17	17	16
2594 HEIDORVILLE	M	N-RG	JIM HOGG	0288	16.01	39.97	59.97	81.1	96.39	83.15	731	859	782	792	782	782
2626 IRRIGATION	M	N-RG	JIM HOGG	1004							794	796	744	744	744	744
2637 LIVESTOCK	M	N-RG	JIM HOGG	1005							383	383	383	383	383	383
2638 LIVESTOCK	M	RG	JIM HOGG	1005							35	35	135	136	136	136
2612 MINING	M	N-RG	JIM HOGG	1003							33	36	37	38	39	40
2590 COUNTY OTHER	M	NU														

DBWUGID	wug_name	wug_rwp	wug_basin	wug_county	city_id	P2000	P2010	P2020	P2030	P2040	P2050	P2060
2544	BROWNSVILLE	M	N-RG	CAMERON	0080	138646	172646	208591	245746	282785	319834	355073
2545	BROWNSVILLE	M	RG	CAMERON	0080	1076	1340	1619	1907	2194	2482	2755
2546	COMBES	M	N-RG	CAMERON	0690	2553	3089	3655	4240	4823	5407	5962
2587	COUNTY-OTHER	M	N-RG	CAMERON	0757	38801	45008	51569	58351	65113	71876	78307
2588	COUNTY-OTHER	M	RG	CAMERON	0757	71	82	94	106	118	130	142
3769	EAST RIO HONDO WSC	M	N-RG	CAMERON	4292	13741	19989	26420	33155	39689	46585	52973
3761	EL JARDIN	M	N-RG	CAMERON	4103	8294	10798	13445	16182	18910	21639	24234
3762	EL JARDIN	M	RG	CAMERON	4103	47	61	76	92	107	122	137
2553	HARLINGEN	M	N-RG	CAMERON	0265	57564	66805	76575	86674	96741	106811	116389
3754	INDIAN LAKE	M	N-RG	CAMERON	1026	541	699	866	1039	1211	1383	1547
2556	LA FERIA	M	N-RG	CAMERON	0333	6115	7954	9898	11908	13912	15916	17822
3764	LAGUNA MADRE WD	M	N-RG	CAMERON	4224	4242	7725	11408	15215	19010	22806	26416
2560	LAGUNA VISTA	M	N-RG	CAMERON	0788	1658	2174	2719	3282	3844	4406	4940
2562	LOS FRESNOS	M	N-RG	CAMERON	0369	4512	6649	8908	11243	13571	15899	18114
3755	LOS INDIOS	M	N-RG	CAMERON	1040	1149	1418	1703	1997	2290	2583	2862
3765	MILITARY HIGHWAY WSC	M	N-RG	CAMERON	4255	8834	11278	13862	16533	19196	21860	24393
3766	MILITARY HIGHWAY WSC	M	RG	CAMERON	4255	127	162	199	237	275	313	349
3771	OLMITO WSC	M	N-RG	CAMERON	4292	4479	7261	10203	13244	16275	19307	22191
2567	PALM VALLEY	M	N-RG	CAMERON	0793	1298	1402	1512	1625	1738	1851	1959
3772	PALM VALLEY ESTATES UD	M	N-RG	CAMERON	4295	250	344	444	547	650	753	851
2570	PORT ISABEL	M	N-RG	CAMERON	0477	4865	5282	5723	6179	6633	7088	7520
2571	PRIMERA	M	N-RG	CAMERON	0735	2723	3449	4217	5011	5802	6593	7346
2573	RANCHO VIEJO	M	N-RG	CAMERON	0943	1754	2665	3628	4623	5615	6607	7551
2576	RIO HONDO	M	N-RG	CAMERON	0503	1942	2098	2263	2434	2604	2774	2936
2578	SAN BENITO	M	N-RG	CAMERON	0532	23444	26922	30599	34400	38189	41979	45584
2581	SANTA ROSA	M	N-RG	CAMERON	0541	2833	3472	4148	4847	5543	6240	6903
2583	SOUTH PADRE ISLAND	M	N-RG	CAMERON	0805	2422	3203	4028	4881	5732	6583	7392
3775	VALLEY MUD #2	M	N-RG	CAMERON	4369	1066	1066	1066	1066	1066	1066	1066
3776	VALLEY MUD #2	M	RG	CAMERON	4369	180	180	180	180	180	180	180
2542	ALAMO	M	N-RG	HIDALGO	0003	14760	20915	28107	36163	44880	54400	64166
2543	ALTON	M	N-RG	HIDALGO	0675	4384	12342	15513	19064	22907	27104	31411
2589	COUNTY-OTHER	M	N-RG	HIDALGO	0757	57825	75813	102960	133363	166259	202193	239056
2590	COUNTY-OTHER	M	RG	HIDALGO	0757	2983	4422	6104	7988	10026	12252	14536
2547	DONNA	M	N-RG	HIDALGO	0168	14768	16757	19080	21682	24498	27574	30729
2549	EDCOUCH	M	N-RG	HIDALGO	0178	3342	3778	4287	4858	5475	6149	6841
2550	EDINBURG	M	N-RG	HIDALGO	0182	48465	64792	83869	105237	128358	153611	179517
2552	ELSA	M	N-RG	HIDALGO	0190	5549	5838	6175	6553	6962	7408	7866
2555	HIDALGO	M	N-RG	HIDALGO	0275	7033	10671	14921	19862	24833	30459	36231
3750	HIDALGO	M	RG	HIDALGO	0275	438	438	438	438	438	438	438
3763	HIDALGO COUNTY MUD #1	M	N-RG	HIDALGO	4204	3400	5280	7476	9936	12598	15505	18487
2558	LA JOYA	M	RG	HIDALGO	0336	982	1177	1405	1661	1938	2240	2550
3751	LA JOYA	M	N-RG	HIDALGO	0336	2321	2783	3322	3926	4580	5294	6026
2559	LA VILLA	M	N-RG	HIDALGO	0349	1305	1305	1305	1305	1305	1305	1305
2564	MALLEN	M	N-RG	HIDALGO	0376	106400	127441	152025	179562	209358	241901	275286
3752	MALLEN	M	RG	HIDALGO	0376	14	17	20	24	28	32	36
2565	MERCEDES	M	N-RG	HIDALGO	0397	13649	14546	15595	16770	18041	19429	20853
3767	MILITARY HIGHWAY WSC	M	N-RG	HIDALGO	4255	8731	10261	12048	14050	16216	18582	21009
3768	MILITARY HIGHWAY WSC	M	RG	HIDALGO	4255	88	103	121	141	163	187	211
2566	MISSION	M	N-RG	HIDALGO	0408	45408	61154	79551	100157	122454	146807	171790
3769	NORTH ALAMO WSC	M	N-RG	HIDALGO	4273	80960	114538	153770	197713	245263	297197	350473
3756	PALMHURST	M	N-RG	HIDALGO	1051	4872	9144	14136	19727	25777	32384	39162
2568	PALMVIEW	M	N-RG	HIDALGO	0794	4107	6258	8771	11586	14632	17959	21372
3757	PENITAS	M	N-RG	HIDALGO	1052	1167	1201	1241	1285	1333	1385	1439
2569	PHARR	M	N-RG	HIDALGO	0463	46660	59571	74656	91553	109636	129805	150291
2572	PROGRESO	M	N-RG	HIDALGO	0941	4851	6348	8097	10056	12176	14491	16866
2579	SAN JUAN	M	N-RG	HIDALGO	0536	22229	39074	54082	70992	89081	108947	129327
3774	SHARVYLAND WSC	M	N-RG	HIDALGO	4333	27988	31885	36438	41538	47057	53085	59268
2584	SULLIVAN CITY	M	RG	HIDALGO	0966	3998	5528	7315	9317	11483	13849	16276
2585	WESLACO	M	N-RG	HIDALGO	0638	26935	30878	35485	40645	46229	52328	58584
2591	COUNTY-OTHER	M	N-RG	JIM HOGG	0757	703	744	796	837	870	901	929
2592	COUNTY-OTHER	M	RG	JIM HOGG	0757	80	85	91	95	99	103	107
2554	HEBBRONVILLE	M	N-RG	JIM HOGG	0268	4498	4764	5098	5354	5699	6049	6404
2593	COUNTY-OTHER	M	NUECES	MAVERICK	0757	37	48	59	69	78	86	92
2594	COUNTY-OTHER	M	RG	MAVERICK	0757	19612	25050	30803	36243	40958	45272	48772
2548	EAGLE PASS	M	RG	MAVERICK	0173	22413	23800	25267	26654	27856	28956	29849
3760	EL INDIO WSC	M	RG	MAVERICK	4102	5235	6994	8855	10615	12140	13536	14668
2595	COUNTY-OTHER	M	N-RG	STARR	0757	1118	1470	1846	2234	2624	3009	3378
2596	COUNTY-OTHER	M	RG	STARR	0757	27652	36356	45658	55237	64893	74409	83541
2557	LA GRULLA	M	RG	STARR	0335	1211	1211	1211	1211	1211	1211	1211
2575	RIO GRANDE CITY	M	RG	STARR	0502	11923	13061	14277	15529	16791	18035	19229
3773	RIO WSC	M	RG	STARR	4319	2076	2942	3868	4821	5782	6729	7638
2577	ROMA CITY	M	RG	STARR	0515	9617	11097	12678	14306	15948	17566	19118
2597	COUNTY-OTHER	M	NUECES	WEBB	0757	646	751	873	1010	1159	1323	1496
2598	COUNTY-OTHER	M	N-RG	WEBB	0757	968	1123	1306	1510	1735	1981	2241
2599	COUNTY-OTHER	M	RG	WEBB	0757	4978	5777	6716	7767	8923	10187	11522
2551	EL CENIZO	M	RG	WEBB	0770	3545	5929	8729	11865	15315	19085	23068
2561	LAREDO	M	RG	WEBB	0347	176576	234423	302377	378468	462176	553670	650317
3758	RIO BRAVO	M	RG	WEBB	1055	5553	8318	11566	15203	19205	23579	28199
3777	WEBB COUNTY WATER UTILITY	M	RG	WEBB	4376	851	1326	1884	2509	3197	3949	4743
2600	COUNTY-OTHER	M	N-RG	WILLACY	0757	385	385	385	385	385	385	384
2563	LYFORD	M	N-RG	WILLACY	0373	1973	2091	2207	2313	2398	2456	2485
3770	NORTH ALAMO WSC	M	N-RG	WILLACY	4273	5696	7187	8649	9981	11052	11781	12141
2574	RAYMONDVILLE	M	N-RG	WILLACY	0495	9733	10071	10402	10704	10947	11112	11194
2580	SAN PERLITA	M	N-RG	WILLACY	0956	680	747	812	871	919	952	968
3778	SEBASTIAN MUD	M	N-RG	WILLACY	4410	1615	2038	2452	2830	3134	3340	3442
2601	COUNTY-OTHER	M	RG	ZAPATA	0757	7326	9169	11361	13559	15630	17498	18877
2586	ZAPATA	M	RG	ZAPATA	0672	4856	4856	4856	4856	4856	4856	4856

DBWUGID wug\_name wug\_wpp wug\_basin wug\_county city\_id TWD2000 TWD2010 TWD2020 TWD2030 TWD2040 TWD2050 TWD2060 WUG\_Reg\_Com

2544 BROWNVILLE	M	N	R	G	CAMERON	0080	35564	44288	53506	63037	72538	82042	91981
2545 BROWNVILLE	M	R	C	CAMERON	0080	276	244	415	489	563	637	707	777
2546 COMBES	M	N	R	G	CAMERON	0690	195	225	266	309	351	394	434
2587 COUNTY OTHER	M	N	R	G	CAMERON	0757	6215	7209	8260	9347	10430	11513	12543
2596 COUNTY OTHER	M	R	C	CAMERON	0757	11	13	15	17	19	21	23	25
3759 EAST RIO HONDO WSC	M	N	R	G	CAMERON	4099	1739	2519	3344	4197	5046	5897	6705
3761 EL JARDIN	M	N	R	G	CAMERON	4103	1059	1959	2840	3726	4611	5497	6383
3762 EL JARDIN	M	R	C	CAMERON	4103	9	11	14	17	19	22	25	28
2353 HARLINGEN	M	N	R	G	CAMERON	0285	10059	11674	13381	15146	16905	18664	20338
3764 INDIAN LAKE	M	N	R	G	CAMERON	1005	49	62	84	107	130	154	179
2622 IRRIGATION	M	N	R	G	CAMERON	1004	160435	153281	144873	135181	135181	135181	135181
2623 IRRIGATION	M	R	C	CAMERON	1004	6868	6387	6008	5623	5233	4833	4433	4033
2556 LA FERIA	M	N	R	G	CAMERON	0333	699	909	1131	1361	1600	1818	2036
3764 LAGUNA MADRE WD	M	N	R	G	CAMERON	4224	1288	2345	3483	4619	5771	6923	8019
2565 LAGUNA VISTA	M	N	R	G	CAMERON	0788	214	280	350	423	495	568	638
2633 LIVESTOCK	M	N	R	G	CAMERON	1005	1048	1048	1048	1048	1048	1048	1048
2634 LIVESTOCK	M	R	C	CAMERON	1005	35	35	35	35	35	35	35	35
2562 LOS PRESNOS	M	N	R	G	CAMERON	0369	541	797	1068	1348	1627	1906	2171
3755 LOS INDIOS	M	N	R	G	CAMERON	1040	193	238	286	336	385	434	481
2602 MANUFACTURING	M	N	R	G	CAMERON	1001	3438	4186	4998	5883	6732	7576	8385
3765 MILITARY HIGHWAY WSC	M	N	R	G	CAMERON	4255	1197	1529	1879	2241	2602	2963	3306
3766 MILITARY HIGHWAY WSC	M	R	C	CAMERON	4255	17	22	27	32	37	42	47	51
2605 MINING	M	N	R	G	CAMERON	1003	5	6	7	8	9	10	11
3771 OLMITO WSC	M	N	R	G	CAMERON	4292	612	892	1194	1510	1824	2136	2433
2697 PALM VALLEY	M	N	R	G	CAMERON	0793	380	421	464	508	552	596	638
3772 PALM VALLEY ESTATES UD	M	N	R	G	CAMERON	4295	63	86	111	137	163	189	214
2575 PORT ISABEL	M	N	R	G	CAMERON	0477	2458	2688	2891	3122	3351	3581	3799
2571 PRIMEA	M	N	R	G	CAMERON	0735	433	549	671	797	923	1049	1168
2573 RANCHO VIEJO	M	N	R	G	CAMERON	0943	253	385	524	668	811	955	1091
2578 RIO HONDO	M	N	R	G	CAMERON	0303	388	416	449	483	516	549	582
2579 SAN BENITO	M	N	R	G	CAMERON	0532	4386	5038	5724	6435	7144	7853	8527
2581 SANTA ROSA	M	N	R	G	CAMERON	0541	288	350	418	489	559	628	698
2583 SOUTH PADRE ISLAND	M	N	R	G	CAMERON	0805	1910	2526	3176	3849	4520	5191	5829
2606 STEAM ELECTRIC POWER	M	N	R	G	CAMERON	1002	1498	1616	1723	1790	2094	2477	2944
3775 VALLEY MUD #1	M	N	R	G	CAMERON	4369	738	738	738	738	738	738	738
3776 VALLEY MUD #2	M	R	C	CAMERON	4369	125	125	125	125	125	125	125	125
2542 ALAMO	M	N	R	G	HIDALGO	0503	1703	2413	3243	4173	5178	6214	7283
2543 ALTON	M	N	R	G	HIDALGO	0675	1208	1401	1627	1884	2171	2486	2828
2596 COUNTY OTHER	M	N	R	G	HIDALGO	0757	7449	9766	13263	17179	21417	26046	30794
2596 COUNTY OTHER	M	R	C	HIDALGO	0757	796	384	670	796	1029	1292	1576	1872
2547 DONNA	M	N	R	G	HIDALGO	0168	2101	2384	2714	3084	3485	3923	4371
2545 EDGECOH	M	N	R	G	HIDALGO	0178	480	521	591	659	754	847	943
2550 EDNBURG	M	N	R	G	HIDALGO	0182	6460	8637	11179	14028	17110	20476	23929
2552 ELSA	M	N	R	G	HIDALGO	0190	1063	1118	1183	1256	1334	1419	1507
2555 HIDALGO	M	N	R	G	HIDALGO	0275	701	1064	1488	1962	2476	3037	3612
3768 HIDALGO	M	R	C	HIDALGO	0275	29	44	61	81	102	125	148	174
3763 HIGHLAND COUNTY MUD #1	M	N	R	G	HIDALGO	4204	1116	1133	1148	1164	1180	1195	1207
2624 IRRIGATION	M	N	R	G	HIDALGO	1004	57471	52651	47194	40300	40300	40300	40300
2622 IRRIGATION	M	R	C	HIDALGO	1004	23152	21309	19131	16376	16376	16376	16376	16376
2556 LA JOYA	M	N	R	G	HIDALGO	0338	107	128	153	181	211	243	277
3751 LA JOYA	M	N	R	G	HIDALGO	0338	252	302	361	427	498	575	655
2555 LA VILLA	M	N	R	G	HIDALGO	0348	240	240	240	240	240	240	240
2635 LIVESTOCK	M	N	R	G	HIDALGO	1005	647	647	647	647	647	647	647
2636 LIVESTOCK	M	R	C	HIDALGO	1005	34	34	34	34	34	34	34	34
2603 MANUFACTURING	M	N	R	G	HIDALGO	1001	2074	3204	4609	6123	7651	9244	10912
2584 MALLEN	M	N	R	G	HIDALGO	0376	2433	2924	3499	4123	48075	55848	63214
3752 MALLEN	M	R	C	HIDALGO	0376	3	4	5	6	7	8	9	10
2565 MERCEDES	M	N	R	G	HIDALGO	0397	1835	1955	2096	2254	2425	2612	2803
3767 MILITARY HIGHWAY WSC	M	N	R	G	HIDALGO	4255	1183	1391	1633	1904	2198	2519	2848
3768 MILITARY HIGHWAY WSC	M	R	C	HIDALGO	4255	12	14	16	19	22	25	29	33
2610 MINING	M	N	R	G	HIDALGO	1003	1071	1291	1598	1462	1536	1589	1644
2611 MINING	M	R	C	HIDALGO	1003	128	151	183	171	176	185	192	197
2561 MISSION	M	N	R	G	HIDALGO	0408	7579	10207	13277	16716	20438	24502	28972
3769 NORTH ALAMO WSC	M	N	R	G	HIDALGO	4273	8706	12317	16535	21261	26374	31959	37688
3766 PALMHURST	M	N	R	G	HIDALGO	0581	822	1168	1505	1919	2392	2916	3501
2568 PALMVIEW	M	N	R	G	HIDALGO	0794	589	897	1258	1681	2098	2575	3094
3757 PENTAS	M	N	R	G	HIDALGO	1552	149	153	158	164	170	177	184
2569 PHARR	M	N	R	G	HIDALGO	0463	6899	8808	11039	13537	16240	19193	22222
2572 PROGRESO	M	N	R	G	HIDALGO	0941	456	597	762	946	1146	1363	1587
2575 SAN JUAN	M	N	R	G	HIDALGO	0536	2467	3720	5146	6760	8452	10323	12314
3774 SHARYLAND WSC	M	N	R	G	HIDALGO	4333	4420	5038	5755	6561	7432	8384	9361
2607 STEAM ELECTRIC POWER	M	N	R	G	HIDALGO	1002	3461	3655	3815	3945	4062	4168	4264
2584 SULLIVAN CITY	M	N	R	G	HIDALGO	0566	403	557	727	939	1158	1396	1641
2589 WESLACO	M	N	R	G	HIDALGO	0638	4978	5707	6558	7512	8544	9671	10828
2591 COUNTY OTHER	M	N	R	G	JIM HOGG	0757	132	140	150	158	164	167	168
2592 COUNTY OTHER	M	R	C	JIM HOGG	0757	15	16	17	18	19	19	18	18
2584 HEBBORNVILLE	M	N	R	G	JIM HOGG	0589	705	847	799	850	873	864	851
2628 IRRIGATION	M	N	R	G	JIM HOGG	1004	817	794	766	744	744	744	744
2637 LIVESTOCK	M	N	R	G	JIM HOGG	1005	383	383	383	383	383	383	383
2638 LIVESTOCK	M	R	C	JIM HOGG	1005	135	135	135	135	135	135	135	135
2612 MINING	M	N	R	G	JIM HOGG	1003	27	33	38	43	48	53	58
2598 COUNTY OTHER	M	N	R	G	NUECES	MAVERICK 0757	4	5	7	8	9	10	10
2594 COUNTY OTHER	M	R	C	MAVERICK	0757	2219	2834	3485	4100	4634	5122	5518	5818
2546 EAGLE PASS	M	N	R	G	MAVERICK	0173	4720	5012	5321	5613	5896	6098	6296
3760 EL INDO WSC	M	R	C	MAVERICK	4102	969	1263	1637	1962	2244	2502	2711	2841
2627 IRRIGATION	M	N	R	G	NUECES	MAVERICK 1004	4274	4213	4055	3874	3874	3874	3874
2628 IRRIGATION	M	R	C	MAVERICK	1004	9994	9642	9484	90012	90012	90012	90012	90012
2639 LIVESTOCK	M	N	R	G	NUECES	MAVERICK 1005	104	104	104	104	104	104	104
2640 LIVESTOCK	M	R	C	MAVERICK	1005	156	156	156	156	156	156	156	156
2604 MANUFACTURING	M	N	R	G	MAVERICK	1001	56	64	85	73	177	80	85
2613 MINING	M	N	R	G	NUECES	MAVERICK 1003	97	108	112	115	117	119	121
2614 MINING	M	R	C	MAVERICK	1003	43	48	50	51	52	53	54	54
2595 COUNTY OTHER	M	N	R	G	STARR	0757	186	249	312	378	444	508	571
2596 COUNTY OTHER	M	R	C	STARR	0757	4677	6149	7723	9343	10976	12586	14130	15619
2629 IRRIGATION	M	N	R	G	STARR	1004	1066	965	856	877	877	877	877
2557 LA GRULLA	M	N	R	G	STARR	0335	643	643	643	643	643	643	643
2641 LIVESTOCK	M	N	R	G	STARR	1005	246	246	246	246	246	246	246
2642 LIVESTOCK	M	R	C	STARR	1005	871	871	871	871	871	871	871	871
2615 MINING	M	N	R	G	STARR	1003	704	770	793	803	813	823	835
2616 MINING	M	R	C	STARR	1003	499	545	562	570	577	584	591	591
2578 RIO GRANDE CITY	M	N	R	G	STARR	0502	2404	2633	2879	3131	3396	3636	3877
3773 RIO WSC	M	R	C	STARR	4319	351	488	654	815	978	1138	1292	1441
2577 ROMA CITY	M	N	R	G	STARR	0515	2413	2784	3181	3590	4002	4408	4797
2597 COUNTY OTHER	M	N	R	G	NUECES	WEBB 0757	120	140	162	188	216	246	278
2598 COUNTY OTHER	M	R	C	WEBB	0757	149	209	243	291	353	369	417	471
2599 COUNTY OTHER	M	N	R	G	WEBB	0757	925	1074	1249	1444	1659	1884	2142
2581 EL CENIZO	M	N	R	G	WEBB	0779	417	607	827	1089	1391	1745	2133

## WATER SUPPLY AND DEMAND ANALYSIS

### Municipal County Breakdown (ac-ft/yr)

<b>WMS</b>	<b>Cameron County</b>	<b>Hidalgo</b>	<b>Jim Hogg</b>	<b>Maverick</b>	<b>Star</b>	<b>Webb</b>	<b>Willacy</b>	<b>Zapata</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>
Additional Groundwater	2,250	7,214	73	0	4,138	25,000	0	0	38,675	\$ 11,774,990.50	\$ 304.46
Advanced Water Conservation Measures	3,713	10,281	9	341	595	3,907	78	85	19,009	\$ 2,137,995.43	\$ 112.47
Non-Potable Water Re-use	500	18,991	0	0	0	11,200	0	0	30,691	\$ 12,743,517.02	\$ 415.22
Potable Water Re-use	0	1,120	0	0	0	0	0	0	1,120	\$ 790,596.80	\$ 705.89
Brownsville Weir and Reservoir	20,643	0	0	0	0	0	0	0	20,643	\$ 11,090,864.61	\$ 537.27
<i>Acquisition of Water Rights:</i>											
Purchase	15,435	58,906	8	2,227	11,443	33,300	88	1,813	123,220	\$ 66,876,477.07	\$ 542.74
Urbanization	0	15,468	0	0	0	0	0	0	15,468	\$ 5,697,947.16	\$ 368.37
Contract	847	2,256	0	0	187	1,337	5	0	4,632	\$ 2,110,040.03	\$ 455.56
<i>Desalination:</i>											
Brackish Groundwater Desalination	14,121	21,592	0	641	0	22,400	11,426	0	70,180	\$ 35,476,691.80	\$ 505.51
Seawater Desalination	889	0	0	0	0	0	0	0	889	\$ 682,423.07	\$ 767.63
<b>Totals:</b>	<b>58398.34865</b>	<b>135827.924</b>	<b>90.293001</b>	<b>3208.749</b>	<b>16363</b>	<b>97144</b>	<b>11596.9</b>	<b>1898.4</b>	<b>324,527</b>	<b>\$ 149,381,543.50</b>	<b>\$ 4,715.12</b>

WATER SUPPLY AND DEMAND ANALYSIS										
County-Other: Zapata County										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	7,326	9,169	11,361	13,559	15,630	17,498	18,877			
<b>Total Water Demand</b>		1,232	1,514	1,792	2,048	2,293	2,474			
<b>Advanced Water Conservation WMS (ac-ft)</b>		14	30	46	61	75	85			
<b>Net Water Demand (ac-ft)</b>		<b>1,218</b>	<b>1,484</b>	<b>1,746</b>	<b>1,987</b>	<b>2,218</b>	<b>2,389</b>			
Current Water Supply		Type								
AMISTAD/FALCON		Surface Water	661	661	661	661	661	661	661	
OTHER AQUIFER		Ground Water	0	0	0	0	0	0	0	
<b>Total Supply (AF/yr)</b>			<b>661</b>	<b>661</b>	<b>661</b>	<b>661</b>	<b>661</b>	<b>661</b>	<b>661</b>	
<b>Projected Supply Surplus/Deficit</b>			<b>-571</b>	<b>-853</b>	<b>-1,131</b>	<b>-1,387</b>	<b>-1,632</b>	<b>-1,813</b>		
Evaluation of Selected Water Management Strategies		Additional Supply by Decade								
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	85	\$ 9,604.55	\$ 112.47		14	30	46	61	75	85
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	1,813	\$ 983,987.62	\$ 542.74		571	853	1,131	1,387	1,632	1,813
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

585 883 1,177 1,448 1,707 1,898  
14 30 46 61 75 85

WATER SUPPLY AND DEMAND ANALYSIS									
County-Other: Willacy County									
Year	2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	385	385	385	385	385	385	384		
<b>Total Water Demand</b>	215	213	212	211	210	209			
<b>Current Water Supply</b>									
	<b>Type</b>								
AMISTAD/FALCON	Surface Water		698	579	471	370	267		
<b>Total Supply (AF/yr)</b>	<b>698</b>	<b>579</b>	<b>471</b>	<b>370</b>	<b>267</b>	<b>267</b>			
<b>Projected Supply Surplus/Deficit</b>	<b>483</b>	<b>366</b>	<b>259</b>	<b>159</b>	<b>57</b>	<b>58</b>			
<b>Evaluation of Selected Water Management Strategies</b>									
<b>Additional Supply by Decade</b>									
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

0 0 0 0 0 0  
483 366 259 159 57 58

WATER SUPPLY AND DEMAND ANALYSIS									
County-Other: Webb County									
Year	2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	6,592	7,651	8,895	10,287	11,817	13,491	15,259		
<b>Total Water Demand</b>	1,388	1,575	1,786	2,025	2,296	2,599			
<b>Current Water Supply</b>									
	<b>Type</b>								
AMISTAD/FALCON	Surface Water	0	0	0	0	0	0		
AMISTAD/FALCON	Surface Water	0	0	0	0	0	0		
AMISTAD/FALCON	Surface Water	1	1	1	1	1	1		
CARRIZO-WILCOX	Ground Water	77	77	77	77	77	77		
CARRIZO-WILCOX	Ground Water	115	115	115	116	116	116		
CARRIZO-WILCOX	Ground Water	593	593	594	595	595	596		
GULF COAST	Ground Water	27	27	27	27	27	27		
GULF COAST	Ground Water	40	40	40	40	40	40		
GULF COAST	Ground Water	207	207	207	207	207	208		
OTHER AQUIFER	Ground Water	13	13	13	13	13	13		
OTHER AQUIFER	Ground Water	19	19	19	19	19	19		
OTHER AQUIFER	Ground Water	99	99	99	99	99	99		
<b>Total Supply (AF/yr)</b>		<b>1,191</b>	<b>1,192</b>	<b>1,193</b>	<b>1,194</b>	<b>1,195</b>	<b>1,196</b>		
<b>Projected Supply Surplus/Deficit</b>		<b>-197</b>	<b>-383</b>	<b>-593</b>	<b>-831</b>	<b>-1,101</b>	<b>-1,403</b>		
<b>Evaluation of Selected Water Management Strategies</b>									
<b>Additional Supply by Decade</b>									
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060
Additional Groundwater	529	\$ 161,059.34	\$ 304.46	74	144	224	313	416	529
Advanced Water Conservation Measures	64	\$ 7,206.53	\$ 112.47	8	17	27	39	51	64
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	874	\$ 474,354.76	\$ 542.74	123	240	370	518	686	874
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

205 401 621 870 1,153 1,467  
8 18 28 39 52 64

WATER SUPPLY AND DEMAND ANALYSIS									
County-Other: Starr County									
Year	2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	28,770	37,826	47,504	57,471	67,517	77,418	86,919		
<b>Total Water Demand</b>	6,228	7,663	9,141	10,663	12,141	13,631			
<b>Current Water Supply</b>									
	<b>Type</b>								
AMISTAD/FALCON	Surface Water	30	30	30	30	30	30		
AMISTAD/FALCON	Surface Water	751	751	751	751	751	751		
OTHER AQUIFER	Ground Water	3	3	3	3	3	3		
OTHER AQUIFER	Ground Water	74	74	74	74	74	74		
GULF COAST	Ground Water	748	748	748	748	748	748		
<b>Total Supply (AF/yr)</b>		<b>1,607</b>	<b>1,607</b>	<b>1,607</b>	<b>1,607</b>	<b>1,607</b>	<b>1,607</b>		
<b>Projected Supply Surplus/Deficit</b>		<b>-4,621</b>	<b>-6,056</b>	<b>-7,534</b>	<b>-9,056</b>	<b>-10,534</b>	<b>-12,024</b>		
<b>Evaluation of Selected Water Management Strategies</b>									
				<b>Additional Supply by Decade</b>					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060
Additional Groundwater	4,138	\$ 1,259,855.48	\$ 304.46	1,580	3270	2981	3712	4022	4138
Advanced Water Conservation Measures	430	\$ 48,350.35	\$ 112.47	67	139	212	286	360	430
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	7,886	\$ 4,280,047.64	\$ 542.74	3,041	2786	4,553	5334	6,512	7886
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

4,688 6,195 7,746 9,332 10,894 12,454  
67 138 212 276 359 430

WATER SUPPLY AND DEMAND ANALYSIS											
County-Other: Maverick County											
Year	2010	2020	2030	2040	2050	2060					
<b>Total Population</b>	19,649	25,098	30,862	36,312	41,036	45,358	48,864				
<b>Total Water Demand</b>	2,727	3,249	3,742	4,183	4,573	4,926					
<b>Current Water Supply</b>											
							<b>Type</b>				
AMISTAD/FALCON	2,174	2,174	2,174	2,174	2,174	2,174	Surface Water				
CARRIZO-WILCOX	1	1	1	1	1	1	Ground Water				
CARRIZO-WILCOX	267	267	267	267	267	267	Ground Water				
OTHER AQUIFER	1	1	1	1	1	1	Ground Water				
OTHER AQUIFER	257	257	257	257	257	257	Ground Water				
<b>Total Supply (AF/yr)</b>	<b>2,700</b>	<b>2,700</b>	<b>2,700</b>	<b>2,700</b>	<b>2,700</b>	<b>2,700</b>					
<b>Projected Supply Surplus/Deficit</b>	<b>-27</b>	<b>-549</b>	<b>-1,042</b>	<b>-1,483</b>	<b>-1,873</b>	<b>-2,226</b>					
<b>Evaluation of Selected Water Management Strategies</b>											
<b>Additional Supply by Decade</b>											
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060		
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	0	
Advanced Water Conservation Measures	216	\$ 24,292.00	\$ 112.47	40	83	123	158	190	216		
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	0	
Acquisition of Water Rights:											
Purchase	2,226	\$ 1,208,139.24	\$ 542.74	27	549	1042	1483	1,873	2226		
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	0	
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0	0	
Desalination:											
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	0	

67 632 1,165 1,641 2,063 2,442  
40 83 123 158 190 216

WATER SUPPLY AND DEMAND ANALYSIS										
County-Other: Jim Hogg County										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	783	829	887	932	969	959	923			
<b>Total Water Demand</b>		153	159	164	167	165	158			
<b>Current Water Supply</b>										
		<b>Type</b>								
GULF COAST		Ground Water	77	77	77	77	77	77	77	77
GULF COAST		Ground Water	9	9	9	9	9	9	9	9
<b>Total Supply (AF/yr)</b>			<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>
<b>Projected Supply Surplus/Deficit</b>			<b>-67</b>	<b>-73</b>	<b>-78</b>	<b>-81</b>	<b>-79</b>	<b>-72</b>		
<b>Evaluation of Selected Water Management Strategies</b>										
<b>Additional Supply by Decade</b>										
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	73	\$ 22,225.58	\$ 304.46		60	66	70	73	71	65
Advanced Water Conservation Measures	1	\$ 154.66	\$ 112.47		0	1	1	1	1	1
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	8	\$ 4,341.92	\$ 542.74		7	7	8	8	8	7
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

67      74      79      82      80      73  
0      1      1      1      1      1

WATER SUPPLY AND DEMAND ANALYSIS									
County-Other: Hidalgo County									
Year	2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	60,808	80,235	109,064	141,351	176,285	214,445	253,592		
<b>Total Water Demand</b>	9,886	13,072	16,626	20,536	24,981	29,542			
<b>Current Water Supply</b>									
	<b>Type</b>								
AMISTAD/FALCON	Surface Water	8,827	8,714	8,612	8,515	8,418	8,327		
AMISTAD/FALCON	Surface Water	465	459	453	448	443	438		
GULF COAST	Ground Water	1,589	1,447	1,299	1,131	939	743		
GULF COAST	Ground Water	93	86	78	68	57	45		
<b>Total Supply (AF/yr)</b>	<b>10,974</b>	<b>10,706</b>	<b>10,442</b>	<b>10,163</b>	<b>9,857</b>	<b>9,553</b>			
<b>Projected Supply Surplus/Deficit</b>	<b>1,088</b>	<b>-2,366</b>	<b>-6,184</b>	<b>-10,373</b>	<b>-15,124</b>	<b>-19,989</b>			
<b>Evaluation of Selected Water Management Strategies</b>									
				<b>Additional Supply by Decade</b>					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060
Additional Groundwater	4,389	\$ 1,336,274.94	\$ 304.46	0	1089	1887	3861	4098	4389
Advanced Water Conservation Measures	1,425	\$ 160,298.11	\$ 112.47	144	357	595	854	1,136	1,425
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	15,600	\$ 8,466,744.00	\$ 542.74	0	1277	4297	6512	11,026	15600
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

144 2,723 6,779 11,227 16,260 21,414  
1,231 356 595 854 1,136 1,425

WATER SUPPLY AND DEMAND ANALYSIS									
County-Other: Cameron County									
Year	2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	38,872	45,090	51,663	58,457	65,231	72,006	78,449		
<b>Total Water Demand</b>	6,970	7,812	8,709	9,572	10,485	11,424			
<b>Current Water Supply</b>									
							<b>Type</b>		
AMISTAD/FALCON	13,090	13,078	13,068	13,059	13,052	13,047	Surface Water		
OTHER LOCAL SUPPLY*	0	0	0	0	0	0	Surface Water		
GULF COAST	2,519	2,478	2,439	2,396	2,354	2,311	Ground Water		
GULF COAST	5	5	4	4	4	4	Ground Water		
<b>Total Supply (AF/yr)</b>	<b>15,614</b>	<b>15,561</b>	<b>15,511</b>	<b>15,459</b>	<b>15,410</b>	<b>15,362</b>			
<b>Projected Supply Surplus/Deficit</b>	<b>8,644</b>	<b>7,749</b>	<b>6,802</b>	<b>5,887</b>	<b>4,925</b>	<b>3,938</b>			
<b>Evaluation of Selected Water Management Strategies</b>									
				<b>Additional Supply by Decade</b>					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	293	\$ 32,907.91	\$ 112.47	46	95	145	195	245	293
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Although there are water rights located on water courses in this basin other than the Rio Grande, these water rights are based to a large extent on irrigation return flows with poor water quality, therefore, the available supply has been set to zero.

46 95 145 195 245 293  
8,690 7,844 6,946 6,082 5,170 4,230

**WATER SUPPLY AND DEMAND ANALYSIS**

**CITY OF BROWNSVILLE**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	139722	173,986	210,210	247,653	284,979	322,316
<b>Total Water Demand (ac-ft)</b>	44,630	53,921	63,526	73,101	82,679	91,788
<b>Advanced Water Conservation WMS (ac-ft)</b>	974	1,884	3,051	3,831	4,694	5,211
<b>Net Water Demand (ac-ft)</b>	<b>43,656</b>	<b>52,037</b>	<b>60,475</b>	<b>69,270</b>	<b>77,985</b>	<b>86,577</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts	865	29,285	MUNI	29,285	29,285	29,285	29,285	29,285	29,285
Groundwater-SRWA		7,800	GW	7,800	7,800	7,800	7,800	7,800	7,800
<b>Total Supply (AF/yr)</b>		<b>37,085</b>		<b>37,085</b>	<b>37,085</b>	<b>37,085</b>	<b>37,085</b>	<b>37,085</b>	<b>37,085</b>
<b>Projected Supply Surplus/Deficit</b>				<b>-6,570</b>	<b>-14,952</b>	<b>-23,389</b>	<b>-32,185</b>	<b>-40,900</b>	<b>-49,492</b>

**Evaluation of Selected Water Management Strategies** **Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	1,000	\$ 304,460.00	\$ 304.46		0	1000	1000	1000	1000	1000
Advanced Water Conservation Measures	1,612	\$ 181,353.11	\$ 112.47		253	521	798	1,074	1,350	1,612
Non-Potable Water Re-use	500	\$ 207,610.00	\$ 415.22		0	500	500	500	500	500
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	20,643	\$ 11,090,864.61	\$ 537.27		20,643	20,643	20,643	20,643	20,643	20,643
Acquisition of Water Rights:										
Purchase	1,793	\$ 973,132.82	\$ 542.74		0	0	0	0	0	1793
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	129	\$ 58,767.24	\$ 455.56		0	0	0	0	0	129
Desalination:										
Brackish Groundwater Desalination	6,070	\$ 3,068,445.70	\$ 505.51		6,070	6,070	6,070	6,070	6,070	6,070
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

26,966    28,734    29,011    29,287    29,563    31,747  
 20,396    13,782    5,622    -2,898    -11,337    -17,745

WATER SUPPLY AND DEMAND ANALYSIS										
COMBES										
Year					2010	2020	2030	2040	2050	2060
Total Population	2553				3,089	3,655	4,240	4,823	5,407	5,962
Total Water Demand					225	266	309	351	394	434
Advanced Water Conservation WMS (ac-ft)					17	37	52	70	85	94
Net Water Demand (ac-ft)					208	229	257	281	309	341
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts* Groundwater	831	429.6	MUNI GW		430	430	430	430	430	430
<b>Total Supply (AF/yr)</b>		<b>429.6</b>			<b>430</b>	<b>430</b>	<b>430</b>	<b>430</b>	<b>430</b>	<b>430</b>
<b>Projected Supply Surplus/Deficit</b>					<b>222</b>	<b>200</b>	<b>173</b>	<b>149</b>	<b>120</b>	<b>89</b>
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	25	\$ 2,834.55	\$ 112.47		4	8	12	17	21	25
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	25	\$ 12,637.75	\$ 505.51		0	25	25	25	25	25
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*City of Harlingen

Surplus/Deficit after WMS's 226 234 210 191 166 139

**WATER SUPPLY AND DEMAND ANALYSIS**

**E. RIO HONDO WSC**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	13741	13,741	19,904	26,420	33,155	46,585
<b>Total Water Demand</b>	2,519	3,344	4,197	5,046	5,897	6,705
<b>Advanced Water Conservation WMS (ac-ft)</b>	111	237	334	491	574	653
<b>Net Water Demand (ac-ft)</b>	<b>2,408</b>	<b>3,107</b>	<b>3,863</b>	<b>4,555</b>	<b>5,323</b>	<b>6,052</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Amistad-Falcon Water Right/Contracts*	73, 284, 296, 838, 841, 625, 3269, 692	5,046	MUNI	5,046	5,046	5,046	5,046	5,046	5,046
Groundwater		0	GW						
<b>Total Supply (AF/yr)</b>		<b>5,046</b>		<b>5,046</b>	<b>5,046</b>	<b>5,046</b>	<b>5,046</b>	<b>5,046</b>	<b>5,046</b>
<b>Projected Supply Surplus/Deficit</b>				<b>2,639</b>	<b>1,939</b>	<b>1,184</b>	<b>492</b>	<b>-277</b>	<b>-1,006</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	243	\$ 27,309.48	\$ 112.47	0	46	94	144	193	243
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	95	\$ 51,560.30	\$ 542.74	0	0	0	0	95	95
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	5	\$ 2,277.80	\$ 455.56	0	0	0	0	5	5
Desalination:									
Brackish Groundwater Desalination	906	\$ 457,992.06	\$ 505.51	100	100	100	100	177	906
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 2,739    2,085    1,377    735    194    243

WATER SUPPLY AND DEMAND ANALYSIS										
EL JARDIN										
Year					2010	2020	2030	2040	2050	2060
Total Population	8341				10,859	13,521	16,274	19,017	21,761	24,371
Total Water Demand					1,970	2,454	2,953	3,450	3,949	4,423
Advanced Water Conservation WMS (ac-ft)					61	121	182	234	293	328
Net Water Demand (ac-ft)					1,909	2,333	2,771	3,216	3,656	4,095
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts* Groundwater	843	1,600 0	MUNI GW							
<b>Total Supply (AF/yr)</b>		<b>1,600</b>			<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>	<b>1,600</b>
<b>Projected Supply Surplus/Deficit</b>					<b>-309</b>	<b>-733</b>	<b>-1,171</b>	<b>-1,616</b>	<b>-2,056</b>	<b>-2,495</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	119	\$ 13,328.80	\$ 112.47		19	38	59	79	99	119
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	2,370	\$ 1,286,429.49	\$ 542.74		294	696	1,112	1,535	1,953	2,370
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	125	\$ 56,831.11	\$ 455.56		15	37	59	81	103	125
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Brownsville Irrigation District

Surplus/Deficit after WMS's

18 38 59 79 99 118

WATER SUPPLY AND DEMAND ANALYSIS										
HARLINGEN										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>		57564			66,805	76,575	86,674	96,741	106,811	116,389
<b>Total Water Demand</b>					11,674	13,381	15,146	16,905	18,664	20,338
<b>Advanced Water Conservation WMS (ac-ft)</b>					299	600	971	1,300	1,555	1,695
<b>Net Water Demand (ac-ft)</b>					<b>11,375</b>	<b>12,781</b>	<b>14,175</b>	<b>15,605</b>	<b>17,109</b>	<b>18,643</b>
<b>Current Water Supply</b>	<b>Water Right Number</b>		<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater	223, 831, 840, 5254		16,621.0 0.0	MUNI GW	16,621	16,621	16,621	16,621	16,621	16,621
<b>Total Supply (AF/yr)</b>			<b>16,621.0</b>		16,621	16,621	16,621	16,621	16,621	16,621
<b>Projected Supply Surplus/Deficit</b>					<b>5,246</b>	<b>3,840</b>	<b>2,446</b>	<b>1,016</b>	<b>-488</b>	<b>-2,022</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	435	\$ 48,912.44	\$ 112.47		68	141	215	290	364	435
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination*	2,022	\$ 1,022,141.22	\$ 505.51		0	25	25	25	488	2022
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Future Development of Desal. Plant or Wholesale Purchase

Surplus/Deficit after WMS's 5,315 4,006 2,686 1,331 364 435

**WATER SUPPLY AND DEMAND ANALYSIS**

**INDIAN LAKE**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	541	699	866	1,039	1,211	1,383	1,547
<b>Total Water Demand</b>		52	64	77	90	102	114
<b>Advanced Water Conservation WMS (ac-ft)</b>		3	7	10	14	17	19
<b>Net Water Demand (ac-ft)</b>		<b>49</b>	<b>57</b>	<b>67</b>	<b>76</b>	<b>85</b>	<b>95</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater	various WRS	30.7	MUNI						
<b>Total Supply (AF/yr)</b>		<b>30.7</b>		<b>31</b>	<b>31</b>	<b>31</b>	<b>31</b>	<b>31</b>	<b>31</b>
<b>Projected Supply Surplus/Deficit</b>				<b>-18</b>	<b>-27</b>	<b>-36</b>	<b>-46</b>	<b>-54</b>	<b>-64</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	7	\$ 836.48	\$ 112.47	1	2	4	5	6	7
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	64	\$ 32,352.64	\$ 505.51	18	27	36	46	54	64
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*supplied by ERHWSC

Surplus/Deficit after WMS's 1      3      4      5      6      7

**WATER SUPPLY AND DEMAND ANALYSIS**

**LA FERIA**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	6115	7,954	9,898	11,908	13,912	15,916	17,822
<b>Total Water Demand</b>		909	1,131	1,361	1,590	1,818	2,036
<b>Advanced Water Conservation WMS (ac-ft)</b>		53	100	147	187	232	260
<b>Net Water Demand (ac-ft)</b>		<b>856</b>	<b>1,031</b>	<b>1,214</b>	<b>1,403</b>	<b>1,586</b>	<b>1,776</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater	803	1,800.0 0.0	MUNI GW						
<b>Total Supply (AF/yr)</b>		<b>1,800.0</b>		<b>1,800</b>	<b>1,800</b>	<b>1,800</b>	<b>1,800</b>	<b>1,800</b>	<b>1,800</b>
<b>Projected Supply Surplus/Deficit</b>				<b>944</b>	<b>769</b>	<b>586</b>	<b>397</b>	<b>214</b>	<b>24</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	87	\$ 9,734.26	\$ 112.47	14	28	43	58	72	87
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination*	280	\$ 141,542.80	\$ 505.51	0	280	280	280	280	280
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\* supplied by La Feria ID Cameron Cty No. 3

\*Informed NRS through survey that they are looking into Brackish Desal. as a water supply

Surplus/Deficit after WMS's 958    1,077    909    735    566    390



WATER SUPPLY AND DEMAND ANALYSIS										
LAGUNA VISTA										
Year				2010	2020	2030	2040	2050	2060	
Total Population		1658		2,174	2,719	3,282	3,844	4,406	4,940	
Total Water Demand				280	350	423	495	568	636	
Advanced Water Conservation WMS (ac-ft)				12	27	40	52	64	72	
Net Water Demand (ac-ft)				268	323	383	443	504	564	
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts*	850, 5127	1,022.0	MUNI							
Groundwater		0.0	GW							
		0.0								
<b>Total Supply (AF/yr)**</b>		<b>1,022.0</b>		<b>1,022</b>	<b>1,022</b>	<b>1,022</b>	<b>1,022</b>	<b>1,022</b>	<b>1,022</b>	<b>1,022</b>
<b>Projected Supply Surplus/Deficit</b>				<b>754</b>	<b>699</b>	<b>639</b>	<b>579</b>	<b>518</b>	<b>458</b>	
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	24	\$ 2,728.95	\$ 112.47		4	8	12	16	20	24
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	25	\$ 19,190.75	\$ 767.63		25	25	25	25	25	25

\* Supplied by Laguna Madre WD water rights

\*\* Supply based on amount of water supplied in 2003

Surplus/Deficit after WMS's 783    732    676    620    563    507

**WATER SUPPLY AND DEMAND ANALYSIS**

**LOS FRESNOS**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
<b>Total Population</b>	4512	6,649	8,908	11,243	13,571	15,899	18,114
<b>Total Water Demand</b>	797	1,068	1,348	1,627	1,906	2,171	
<b>Advanced Water Conservation WMS (ac-ft)</b>	12	27	40	52	64	72	
<b>Net Water Demand (ac-ft)</b>	<b>785</b>	<b>1,041</b>	<b>1,308</b>	<b>1,575</b>	<b>1,842</b>	<b>2,099</b>	

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater	853	911.7 190.0	MUNI GW						
<b>Total Supply (AF/yr)</b>		<b>1,101.7</b>		<b>1,102</b>	<b>1,102</b>	<b>1,102</b>	<b>1,102</b>	<b>1,102</b>	<b>1,102</b>
<b>Projected Supply Surplus/Deficit</b>				<b>317</b>	<b>61</b>	<b>-206</b>	<b>-474</b>	<b>-740</b>	<b>-997</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	101	\$ 11,309.94	\$ 112.47	16	32	50	67	84	101
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	997	\$ 503,993.47	\$ 505.51	0	0	206	474	740	997
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 333      94      50      67      84      100

**WATER SUPPLY AND DEMAND ANALYSIS**

**LOS INDIOS**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
<b>Total Population</b>	1149	1,418	1,703	1,997	2,290	2,583	2,862
<b>Total Water Demand</b>	238	286	336	385	434	481	
<b>Advanced Water Conservation WMS (ac-ft)</b>	8	15	25	31	38	42	
<b>Net Water Demand (ac-ft)</b>	<b>230</b>	<b>271</b>	<b>311</b>	<b>354</b>	<b>396</b>	<b>439</b>	

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>
Amistad-Falcon Water Right/Contracts* Groundwater		0.0 230.0	MUNI GW
<b>Total Supply (AF/yr)**</b>		<b>230.0</b>	
<b>Projected Supply Surplus/Deficit</b>		<b>0</b>	<b>0</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	13	\$ 1,424.34	\$ 112.47	2	4	6	8	11	13
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Supplied by MHWSC

\*\*Projected supply based on MHWSC meeting demand through 2060

Surplus/Deficit after WMS's 2      4      6      8      10      12

WATER SUPPLY AND DEMAND ANALYSIS										
MILITARY HIGHWAY WSC										
Year					2010	2020	2030	2040	2050	2060
Total Population		8961			11,440	14,061	16,770	19,471	22,173	24,742
Total Water Demand					1,551	1,906	2,273	2,639	3,005	3,353
Advanced Water Conservation WMS (ac-ft)					64	126	207	262	323	360
Net Water Demand (ac-ft)					1,487	1,780	2,066	2,377	2,682	2,993
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	284, 285, 286, 831	2,792.6	MUNI		1,396	1,396	1,396	1,396	1,396	1,396
Groundwater		2,891.0	GW		1,163	1,122	1,044	935	799	655
Supplied to Los Indios					230	271	311	354	396	439
Supplied to Progresso					576	717	867	1,037	1,234	1,436
Total Supply (AF/yr)		5,683.6								
Total Supply (AF/yr) less contracts*					1,753	1,530	1,262	940	565	176
Projected Supply Surplus/Deficit					266	-250	-804	-1,437	-2,117	-2,817
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	1,250	\$ 380,575.00	\$ 304.46		0	250	500	750	1000	1250
Advanced Water Conservation Measures	117	\$ 13,121.75	\$ 112.47		18	38	58	78	98	117
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	1,489	\$ 808,139.86	\$ 542.74		0	0	289	653	1,061	1,489
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	78	\$ 35,533.68	\$ 455.56		0	0	15	34	56	78
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Available to meet customers other than Los Indios and Progresso

Surplus/Deficit after WMS's 285 37 58 77 98 117

WATER SUPPLY AND DEMAND ANALYSIS										
OLMITO WSC										
Year		2010	2020	2030	2040	2050	2060			
Total Population	4479	7,261	10,203	13,244	16,275	19,307	22,191			
Total Water Demand		992	1,394	1,810	2,224	2,638	3,033			
Advanced Water Conservation WMS (ac-ft)		41	80	119	164	195	224			
Net Water Demand (ac-ft)		951	1,314	1,691	2,060	2,443	2,809			
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	854	995.7	MUNI							
Groundwater		0.0	GW							
Total Supply (AF/yr)		995.7		996	995	996	996	996	996	996
Projected Supply Surplus/Deficit				44	-319	-696	-1,064	-1,448	-1,814	
Evaluation of Selected Water Management Strategies				Additional Supply by Decade						
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	
Advanced Water Conservation Measures	131	\$ 14,727.36	\$ 112.47	21	42	65	87	110	131	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	1,723	\$ 935,303.84	\$ 542.74	0	303	661	1,011	1,376	1,723	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract	91	\$ 41,319.29	\$ 455.56	0	16	35	53	72	91	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

Surplus/Deficit after WMS's

65 42 65 87 110 131

**WATER SUPPLY AND DEMAND ANALYSIS**

**PALM VALLEY**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	1298	1,402	1,512	1,625	1,738	1,851	1,959
<b>Total Water Demand</b>		421	454	488	522	556	588
<b>Advanced Water Conservation WMS (ac-ft)</b>		8	14	20	27	31	33
<b>Net Water Demand (ac-ft)</b>		<b>413</b>	<b>440</b>	<b>468</b>	<b>495</b>	<b>525</b>	<b>555</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts * Groundwater	809		MUNI GW						
<b>Total Supply (AF/yr)</b>				<b>331</b>	<b>319</b>	<b>309</b>	<b>300</b>	<b>293</b>	<b>288</b>
<b>Projected Supply Surplus/Deficit</b>				<b>-82</b>	<b>-122</b>	<b>-159</b>	<b>-195</b>	<b>-232</b>	<b>-268</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	5	\$ 549.62	\$ 112.47	1	2	2	3	4	5
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	255	\$ 138,181.60	\$ 542.74	78	116	151	185	220	255
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	13	\$ 6,104.50	\$ 455.56	4	6	8	10	12	13
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Supplied by Palm Valley UD and Harlingen ID water right

Surplus/Deficit after WMS's 1      2      2      4      4      5





WATER SUPPLY AND DEMAND ANALYSIS									
PRIMERA									
Year		2010	2020	2030	2040	2050	2060		
Total Population	2723	3,449	4,217	5,011	5,802	6,593	7,346		
Total Water Demand		549	671	797	923	1,049	1,168		
Advanced Water Conservation WMS (ac-ft)		23	43	67	84	103	115		
Net Water Demand (ac-ft)		526	628	730	839	946	1,053		
Current Water Supply	Water Right Number	Amount	Type						
Amistad-Falcon Water Right/Contracts* Groundwater	855, 831	584.0 0.0	MUNI GW	584	584	584	584	584	584
Total Supply (AF/yr)		584.0		584	584	584	584	584	584
Projected Supply Surplus/Deficit				58	-44	-146	-255	-362	-469
Evaluation of Selected Water Management Strategies				Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	34	\$ 3,843.98	\$ 112.47	5	11	17	23	29	34
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	422	\$ 228,927.73	\$ 542.74	0	18	115	219	320	422
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	22	\$ 10,113.43	\$ 455.56	0	1	6	12	17	22
Desalination:									
Brackish Groundwater Desalination	25	\$ 12,637.75	\$ 505.51	0	25	25	25	25	25
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*City of Primera water right, and Harlingen ID contract

Surplus/Deficit after WMS's 64 11 17 23 29 34

**WATER SUPPLY AND DEMAND ANALYSIS**

**RANCHO VIEJO**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	1754	2,665	3,628	4,623	5,615	6,607	7,551
<b>Total Water Demand</b>		385	524	668	811	955	1,091
<b>Advanced Water Conservation WMS (ac-ft)</b>		12	28	41	57	67	76
<b>Net Water Demand (ac-ft)</b>		<b>373</b>	<b>496</b>	<b>627</b>	<b>754</b>	<b>888</b>	<b>1,015</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater: SRWA + VMUD2 Contracts	202	See Valley MUD #2	MUNI GW	827	827	827	827	827	827
				355	355	355	355	355	355
<b>Total Supply (AF/yr)</b>				<b>1,182</b>	<b>1,182</b>	<b>1,182</b>	<b>1,182</b>	<b>1,182</b>	<b>1,182</b>
<b>Projected Supply Surplus/Deficit**</b>				<b>809</b>	<b>686</b>	<b>555</b>	<b>427</b>	<b>293</b>	<b>167</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	43	\$ 4,820.15	\$ 112.47		7	14	21	29	36	43
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\* Supplied Valley MUD #2 water right

\*\*Surplus/Deficit based on Valley MUD supplying demand through 2060

Surplus/Deficit after WMS's	815	700	576	456	329	210
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**WATER SUPPLY AND DEMAND ANALYSIS**

**RIO HONDO**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	1942	2,098	2,263	2,434	2,604	2,774	2,936
<b>Total Water Demand</b>		416	449	483	516	550	582
<b>Advanced Water Conservation WMS (ac-ft)</b>		12	20	30	41	47	49
<b>Net Water Demand (ac-ft)</b>		<b>404</b>	<b>429</b>	<b>453</b>	<b>475</b>	<b>503</b>	<b>533</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts	841	890.0		MUNI					
Groundwater		0.0		GW					
<b>Total Supply (AF/yr)</b>		<b>890.0</b>			<b>890</b>	<b>890</b>	<b>890</b>	<b>890</b>	<b>890</b>
<b>Projected Supply Surplus/Deficit</b>					<b>486</b>	<b>461</b>	<b>437</b>	<b>415</b>	<b>387</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	7	\$ 826.50	\$ 112.47	1	2	4	5	6	7
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 487    464    441    420    393    365

**WATER SUPPLY AND DEMAND ANALYSIS**

**SAN BENITO**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	23444	26,922	30,599	34,400	38,189	41,979	45,584
<b>Total Water Demand</b>		5,036	5,724	6,435	7,144	7,853	8,527
<b>Advanced Water Conservation WMS (ac-ft)</b>		121	240	385	513	611	664
<b>Net Water Demand (ac-ft)</b>		<b>4,915</b>	<b>5,484</b>	<b>6,050</b>	<b>6,631</b>	<b>7,242</b>	<b>7,863</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts * Groundwater	841	7,032.0 0.0	MUNI GW						
<b>Total Supply (AF/yr)</b>		<b>7,032.0</b>		<b>7,032</b>	<b>7,032</b>	<b>7,032</b>	<b>7,032</b>	<b>7,032</b>	<b>7,032</b>
<b>Projected Supply Surplus/Deficit</b>				<b>2,117</b>	<b>1,548</b>	<b>982</b>	<b>401</b>	<b>-210</b>	<b>-831</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	
Advanced Water Conservation Measures	164	\$ 18,409.20	\$ 112.47	26	53	81	109	137	164	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	789	\$ 428,466.09	\$ 542.74	0	0	0	0	199.5	789.45	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract	42	\$ 18,928.52	\$ 455.56	0	0	0	0	10.5	41.55	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

\*Supplied by Cameron County ID #2

Surplus/Deficit after WMS's	2,142	1,601	1,063	510	137	163
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WATER SUPPLY AND DEMAND ANALYSIS										
SANTA ROSA										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	2833	3,472	4,148	4,847	5,543	6,240	6,903			
<b>Total Water Demand</b>		350	418	489	559	629	696			
<b>Advanced Water Conservation WMS (ac-ft)</b>		19	42	60	81	98	108			
<b>Net Water Demand (ac-ft)</b>		<b>331</b>	<b>376</b>	<b>429</b>	<b>478</b>	<b>531</b>	<b>588</b>			
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts * Groundwater	803	900.0 0.0	MUNI GW							
<b>Total Supply (AF/yr)</b>		<b>900.0</b>		<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>
<b>Projected Supply Surplus/Deficit</b>				<b>569</b>	<b>524</b>	<b>471</b>	<b>422</b>	<b>369</b>	<b>312</b>	
<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	0
Advanced Water Conservation Measures	30	\$ 3,384.17	\$ 112.47	5	10	15	20	25	30	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	0

\*Supplied through LaFeria, Cameron County ID #2

Surplus/Deficit after WMS's 574    534    486    442    394    342

WATER SUPPLY AND DEMAND ANALYSIS										
SOUTH PADRE ISLAND										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>	2422				3,203	4,028	4,881	5,732	6,583	7,392
<b>Total Water Demand</b>					2,526	3,176	3,849	4,520	5,191	5,829
<b>Advanced Water Conservation WMS (ac-ft)</b>					22	41	60	77	96	108
<b>Net Water Demand (ac-ft)</b>					<b>2,504</b>	<b>3,135</b>	<b>3,789</b>	<b>4,443</b>	<b>5,095</b>	<b>5,721</b>
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts	850	1,754.0	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)</b>		<b>1,754.0</b>			<b>1,754</b>	<b>1,754</b>	<b>1,754</b>	<b>1,754</b>	<b>1,754</b>	<b>1,754</b>
<b>Projected Supply Surplus/Deficit</b>					<b>-750</b>	<b>-1,381</b>	<b>-2,035</b>	<b>-2,689</b>	<b>-3,341</b>	<b>-3,967</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	37	\$ 4,132.51	\$ 112.47		6	12	18	24	31	37
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	3,769	\$ 2,045,397.10	\$ 542.74		713	1,312	1,933	2,555	3,174	3,769
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	198	\$ 90,360.33	\$ 455.56		38	69	102	134	167	198
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\* Supplied by Laguna Madre WD water rights

\*\* Supply based on amount of water supplied in 2003

Surplus/Deficit after WMS's 5      11      18      25      31      36

**WATER SUPPLY AND DEMAND ANALYSIS**

**VALLEY MUD #2**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	1246	1,246	1,246	1,246	1,246	1,246
<b>Total Water Demand</b>	863	863	863	863	863	863
<b>Advanced Water Conservation WMS (ac-ft)</b>	4	8	13	17	20	20
<b>Net Water Demand (ac-ft)</b>	<b>859</b>	<b>855</b>	<b>850</b>	<b>846</b>	<b>843</b>	<b>843</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Amistad-Falcon Water Right/Contracts	own WR		MUNI	656	162	150	138	125	113
Groundwater: SRWA + VMUD2			GW	353	310	264	219	173	128
<b>Total Supply (AF/yr)</b>				<b>1,009</b>	<b>472</b>	<b>414</b>	<b>357</b>	<b>298</b>	<b>242</b>
<b>Projected Supply Surplus/Deficit</b>				<b>150</b>	<b>-383</b>	<b>-437</b>	<b>-489</b>	<b>-546</b>	<b>-602</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	316	\$ 171,695.80	\$ 542.74	0	113	160	209	263	316
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	17	\$ 7,585.07	\$ 455.56	0	6	8	11	14	17
Desalination:									
Brackish Groundwater Desalination	269	\$ 135,982.19	\$ 505.51	0	268	269	269	269	269
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 150      4      0      0      0      0

WATER SUPPLY AND DEMAND ANALYSIS										
ALAMO										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>		14760			20,915	28,107	36,163	44,880	54,400	64,166
<b>Total Water Demand</b>					2,413	3,243	4,172	5,178	6,276	7,403
<b>Advanced Water Conservation WMS (ac-ft)</b>					94	220	365	503	609	719
<b>Net Water Demand (ac-ft)</b>					<b>2,319</b>	<b>3,023</b>	<b>3,807</b>	<b>4,675</b>	<b>5,667</b>	<b>6,684</b>
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts*	808	1,804.3	MUNI		1,804	1,804	1,804	1,804	1,804	1,804
Groundwater		450.0	GW		450	450	450	450	450	450
<b>Total Supply (AF/yr)</b>		<b>2,254.3</b>			<b>2,254</b>	<b>2,254</b>	<b>2,254</b>	<b>2,254</b>	<b>2,254</b>	<b>2,254</b>
<b>Projected Supply Surplus/Deficit</b>					<b>-65</b>	<b>-768</b>	<b>-1,553</b>	<b>-2,421</b>	<b>-3,412</b>	<b>-4,430</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	100	\$ 30,446.00	\$ 304.46		0	100	100	100	100	100
Advanced Water Conservation Measures	365	\$ 41,080.63	\$ 112.47		46	99	158	223	293	365
Non-Potable Water Re-use	500	\$ 207,610.00	\$ 415.22		25	100	200	300	400	500
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	451	\$ 244,775.74	\$ 542.74		13	90	180	271	361	451
Urbanization	2,100	\$ 773,577.00	\$ 368.37		25	400	800	1,300	1,700	2,100
Contract		\$ -	\$ 455.56		2	5	10	14	19	24
Desalination:	0				0	0	0	0	0	0
Brackish Groundwater Desalination	1,255	\$ 634,415.05	\$ 505.51		0	73	263	436	832	1255
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Supplied by Hidalgo County ID #2

\*Current Policy of HCID#2 is to transfer water rights when land is excluded from the district at no charge.

Surplus/Deficit after WMS's 46      98      158      223      293      365

**WATER SUPPLY AND DEMAND ANALYSIS**

**ALTON**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	4384	12,342	15,513	19,064	22,907	31,411
<b>Total Water Demand</b>	3,401	4,275	5,253	6,312	7,469	8,655
<b>Advanced Water Conservation WMS (ac-ft)</b>	55	122	192	257	334	387
<b>Net Water Demand (ac-ft)</b>	<b>55</b>	<b>122</b>	<b>192</b>	<b>257</b>	<b>334</b>	<b>387</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts * Groundwater	809	3,346.0 0.0	MUNI GW	3,346	4,153	2,615	2,637	2,653	2,666
<b>Total Supply (AF/yr)</b>		<b>3,346.0</b>		<b>3,346</b>	<b>4,153</b>	<b>2,615</b>	<b>2,637</b>	<b>2,653</b>	<b>2,666</b>
<b>Projected Supply Surplus/Deficit</b>				<b>3,291</b>	<b>4,031</b>	<b>2,423</b>	<b>2,380</b>	<b>2,319</b>	<b>2,279</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	200	\$ 22,472.70	\$ 112.47	59	82	109	137	168	200
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Supplied by Sharyland WSC

Surplus/Deficit after WMS's	3,350	4,114	2,532	2,517	2,487	2,479
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WATER SUPPLY AND DEMAND ANALYSIS										
DONNA										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>		14768			16,757	19,080	21,682	24,498	27,574	30,729
<b>Total Water Demand</b>					2,384	2,714	3,084	3,485	3,923	4,371
<b>Advanced Water Conservation WMS (ac-ft)</b>					75	150	243	329	402	447
<b>Net Water Demand (ac-ft)</b>					<b>2,309</b>	<b>2,564</b>	<b>2,841</b>	<b>3,156</b>	<b>3,521</b>	<b>3,924</b>
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts	805	4,190.0	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)</b>		<b>4,190.0</b>			<b>4,190</b>	<b>4,190</b>	<b>4,190</b>	<b>4,190</b>	<b>4,190</b>	<b>4,190</b>
<b>Projected Supply Surplus/Deficit</b>					<b>1,881</b>	<b>1,626</b>	<b>1,349</b>	<b>1,034</b>	<b>669</b>	<b>266</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	25	\$ 7,611.50	\$ 304.46		0	25	25	25	25	25
Advanced Water Conservation Measures	118	\$ 13,271.42	\$ 112.47		15	32	51	72	95	118
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	50	\$ 25,275.50	\$ 505.51		0	50	50	50	50	50
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Planned to interconnect with NAWSC's Brackish Desalination Plant

Surplus/Deficit after WMS's 1,896 1,732 1,475 1,181 838 459

**WATER SUPPLY AND DEMAND ANALYSIS**

**EDCOUCH**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	3342	3,778	4,287	4,858	5,475	6,149	6,841
<b>Total Water Demand</b>		521	591	669	754	847	943
<b>Advanced Water Conservation WMS (ac-ft)</b>		21	43	65	86	103	115
<b>Net Water Demand (ac-ft)</b>		<b>500</b>	<b>548</b>	<b>604</b>	<b>668</b>	<b>744</b>	<b>828</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater	812	1,340.0 0.0	MUNI GW						
<b>Total Supply (AF/yr)</b>		<b>1,340.0</b>		<b>1,340</b>	<b>1,340</b>	<b>1,340</b>	<b>1,340</b>	<b>1,340</b>	<b>1,340</b>
<b>Projected Supply Surplus/Deficit</b>				<b>840</b>	<b>792</b>	<b>736</b>	<b>672</b>	<b>596</b>	<b>512</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	26	\$ 2,909.39	\$ 112.47	3	7	11	16	21	26
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Supplied by Hidalgo County ID #9

Surplus/Deficit after WMS's	843	799	748	688	617	538
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WATER SUPPLY AND DEMAND ANALYSIS										
ELSA										
Year					2010	2020	2030	2040	2050	2060
Total Population	5549				5,838	6,175	6,553	6,962	7,408	7,866
Total Water Demand					1,118	1,183	1,255	1,334	1,419	1,507
Advanced Water Conservation WMS (ac-ft)					20	48	73	101	116	123
Net Water Demand (ac-ft)					1,098	1,135	1,182	1,233	1,303	1,384
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts *	812	1,840.0	MUNI							
Groundwater		0.0	GW							
Contracts										
Total Supply (AF/yr)		1,840.0			1,840	1,840	1,840	1,840	1,840	1,840
Projected Supply Surplus/Deficit					742	705	658	607	537	456
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	17	\$ 1,926.56	\$ 112.47		2	5	7	10	14	17
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	100	\$ 50,551.00	\$ 505.51		0	100	100	100	100	100
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Supplied by HCCID #9

Surplus/Deficit after WMS's 744 810 766 718 651 573

**WATER SUPPLY AND DEMAND ANALYSIS**

**HIDALGO**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	7322	11,109	15,534	20,491	25,854	31,711
<b>Total Water Demand</b>	1,108	1,549	2,043	2,578	3,162	3,760
<b>Advanced Water Conservation WMS (ac-ft)</b>	50	104	184	261	320	380
<b>Net Water Demand (ac-ft)</b>	<b>1,058</b>	<b>1,445</b>	<b>1,859</b>	<b>2,317</b>	<b>2,842</b>	<b>3,380</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Amistad-Falcon Water Right/Contracts	857	12.5	MUNI	13	13	13	13	13	13
Groundwater		826.0	GW	1,693	1,693	1,693	1,693	1,693	1,693
<b>Total Supply (AF/yr)</b>		<b>838.5</b>		<b>1,706</b>	<b>1,706</b>	<b>1,706</b>	<b>1,706</b>	<b>1,706</b>	<b>1,706</b>
<b>Projected Supply Surplus/Deficit</b>				<b>647</b>	<b>261</b>	<b>-154</b>	<b>-612</b>	<b>-1,137</b>	<b>-1,674</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	650	\$ 197,899.00	\$ 304.46	110	250	350	450	550	650
Advanced Water Conservation Measures	225	\$ 25,275.65	\$ 112.47	28	61	97	137	180	225
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	973	\$ 528,086.02	\$ 542.74	0	0	0	154	558	973
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	51	\$ 23,233.56	\$ 455.56	0	0	0	8	29	51
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 785    572    293    137    180    225

WATER SUPPLY AND DEMAND ANALYSIS										
HIDALGO COUNTY MUD #1										
Year				2010	2020	2030	2040	2050	2060	
Total Population		3400		5,280	7,476	9,936	12,598	15,505	18,487	
Total Water Demand				1,733	2,454	3,261	4,135	5,089	6,067	
Advanced Water Conservation WMS (ac-ft)				30	67	100	141	174	207	
Net Water Demand (ac-ft)				1,703	2,387	3,161	3,994	4,915	5,860	
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	543	384.0	MUNI							
Groundwater		0.0	GW							
Contracts										
Total Supply (AF/yr)		384.0		384	384	384	384	384	384	
Projected Supply Surplus/Deficit				-1,319	-2,003	-2,777	-3,610	-4,531	-5,476	
Evaluation of Selected Water Management Strategies				Additional Supply by Decade						
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	
Advanced Water Conservation Measures	112	\$ 12,544.70	\$ 112.47	14	30	48	68	89	112	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	5,202	\$ 2,823,442.03	\$ 542.74	1,253	1,903	2,638	3,430	4,304	5,202	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract	274	\$ 124,732.33	\$ 455.56	66	100	139	181	227	274	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

Surplus/Deficit after WMS's 13 30 48 68 89 112

WATER SUPPLY AND DEMAND ANALYSIS										
LA JOYA										
Year					2010	2020	2030	2040	2050	2060
Total Population	3303				3,960	4,727	5,587	6,518	7,534	8,576
Total Water Demand					430	514	607	709	818	932
Advanced Water Conservation WMS (ac-ft)					22	42	69	95	118	134
Net Water Demand (ac-ft)					408	472	538	614	700	798
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts * Groundwater	864, 802	512.5 0.0	MUNI GW							
<b>Total Supply (AF/yr)</b>		<b>512.5</b>			<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>
<b>Projected Supply Surplus/Deficit</b>					<b>105</b>	<b>41</b>	<b>-26</b>	<b>-102</b>	<b>-187</b>	<b>-285</b>
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	39	\$ 4,384.45	\$ 112.47		5	11	17	24	31	39
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	408	\$ 150,294.96	\$ 368.37		135	179	226	279	340	408
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Supplied by Village of LaJoya water right and HCID #16 water right

Surplus/Deficit after WMS's 245 230 217 201 184 162

**WATER SUPPLY AND DEMAND ANALYSIS**

**LA VILLA**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	1305	1,305	1,305	1,305	1,305	1,305	1,305
<b>Total Water Demand</b>		240	240	240	240	240	240
<b>Advanced Water Conservation WMS (ac-ft)</b>		6	10	15	19	22	22
<b>Net Water Demand (ac-ft)</b>		<b>234</b>	<b>230</b>	<b>225</b>	<b>221</b>	<b>218</b>	<b>218</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts* Groundwater	812	500.0 0.0	MUNI GW						
<b>Total Supply (AF/yr)</b>		<b>500.0</b>		<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>
<b>Projected Supply Surplus/Deficit</b>				<b>266</b>	<b>270</b>	<b>275</b>	<b>279</b>	<b>282</b>	<b>282</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	
Advanced Water Conservation Measures	0	\$ -	\$ 112.47	0	0	0	0	0	0	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

\*Supplied by HCCID #9

Surplus/Deficit after WMS's	266	270	275	279	282	282
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**WATER SUPPLY AND DEMAND ANALYSIS**

**MCALLEN**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
<b>Total Population</b>	106414	127,458	152,045	179,586	209,386	241,933	275,322
<b>Total Water Demand</b>	29,268	34,914	41,239	48,081	55,555	63,222	
<b>Advanced Water Conservation WMS (ac-ft)</b>	571	1,363	2,012	2,815	3,523	4,009	
<b>Net Water Demand (ac-ft)</b>	<b>28,697</b>	<b>33,552</b>	<b>39,227</b>	<b>45,266</b>	<b>52,032</b>	<b>59,213</b>	

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts	343, 846, 848, 808	33,548.8	MUNI	32,429	32,429	32,429	32,429	32,429	32,429	32,429
Groundwater		0.0	GW							
Contract to Edinburg		1,120.0								
<b>Total Supply (AF/yr)</b>		<b>32,428.8</b>		<b>32,429</b>	<b>32,429</b>	<b>32,429</b>	<b>32,429</b>	<b>32,429</b>	<b>32,429</b>	<b>32,429</b>
<b>Projected Supply Surplus/Deficit</b>				<b>3,732</b>	<b>-1,123</b>	<b>-6,799</b>	<b>-12,838</b>	<b>-19,603</b>	<b>-26,784</b>	

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	1,450	\$ 441,467.00	\$ 304.46	0	0	352	588	875	1,450	
Advanced Water Conservation Measures	1,249	\$ 140,445.43	\$ 112.47	156	337	541	761	1,002	1,249	
Non-Potable Water Re-use	9,893	\$ 4,107,771.46	\$ 415.22	0	0	0	2,349	5,287	9,893	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	7,220	\$ 3,918,582.80	\$ 542.74	0	0	727	4,085	5,320	7,220	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract	380	\$ 173,112.80	\$ 455.56	0	0	120	215	280	380	
Desalination:										
Brackish Groundwater Desalination	7,841	\$ 3,963,703.91	\$ 505.51	3,360	3360	5600	5600	7841	7841	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

Surplus/Deficit after WMS's 7,248    2,575    541    761    1,002    1,249

**WATER SUPPLY AND DEMAND ANALYSIS**

**MERCEDES**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	13649	14,546	15,595	16,770	18,041	19,429	20,853
<b>Total Water Demand</b>		1,955	2,096	2,254	2,425	2,612	2,803
<b>Advanced Water Conservation WMS (ac-ft)</b>		65	140	207	283	326	350
<b>Net Water Demand (ac-ft)</b>		<b>1,890</b>	<b>1,956</b>	<b>2,047</b>	<b>2,142</b>	<b>2,286</b>	<b>2,453</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts	823, 812	3,595.0	MUNI	3,595	3,595	3,595	3,595	3,595	3,595
Groundwater		1,691.0	GW	1,691	1,691	1,691	1,691	1,691	1,691
<b>Total Supply (AF/yr)</b>		<b>5,286.0</b>		<b>5,286</b>	<b>5,286</b>	<b>5,286</b>	<b>5,286</b>	<b>5,286</b>	<b>5,286</b>
<b>Projected Supply Surplus/Deficit</b>				<b>3,396</b>	<b>3,330</b>	<b>3,239</b>	<b>3,144</b>	<b>3,000</b>	<b>2,833</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	53	\$ 5,990.06	\$ 112.47	7	14	23	32	43	53
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	560	\$ 283,085.60	\$ 505.51	560	560	560	560	560	560
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 3,963    3,904    3,822    3,736    3,603    3,447



WATER SUPPLY AND DEMAND ANALYSIS										
NORTH ALAMO WSC (Hidalgo County)										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>		80960	114,538	153,770	197,713	245,263	297,197	350,473		
<b>Total Water Demand</b>			12,317	16,535	21,261	26,374	31,959	37,688		
<b>Advanced Water Conservation WMS (ac-ft)</b>			642	1,378	2,215	3,022	3,662	4,318		
<b>Net Water Demand (ac-ft)</b>			<b>11,676</b>	<b>15,157</b>	<b>19,046</b>	<b>23,352</b>	<b>28,297</b>	<b>33,370</b>		
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	240, 461, 804, 805, 808, 808, 816		MUNI	19,400	19519.6	19626.7	19728.5	19831.3	19927.2	
Groundwater			GW	1,258	1,265	1,272	1,279	1,286	1,292	
Contracts										
<b>Total Supply (AF/yr)</b>				<b>20,658</b>	<b>20,785</b>	<b>20,899</b>	<b>21,007</b>	<b>21,117</b>	<b>21,219</b>	
<b>Projected Supply Surplus/Deficit*</b>				<b>8,982</b>	<b>5,628</b>	<b>1,853</b>	<b>-2,345</b>	<b>-7,180</b>	<b>-12,151</b>	
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	1,993	\$ 224,097.56	\$ 112.47		248	538	863	1,215	1,599	1,993
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	902	\$ 489,551.48	\$ 542.74		0	0	0	0	0	902
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	48	\$ 21,866.88	\$ 455.56		0	0	0	0	0	48
Desalination:										
Brackish Groundwater Desalination	11,201	\$ 5,662,217.51	\$ 505.51		11,201	11201	11201	11201	11201	11201
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Based on water supply available for Hidalgo Cty only

Surplus/Deficit after WMS's 20,431 17,367 13,917 10,071 5,619 1,993

**WATER SUPPLY AND DEMAND ANALYSIS**

**PALMHURST**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	4872	9,144	14,136	19,727	25,777	32,384	39,162
<b>Total Water Demand</b>		1,168	1,805	2,519	3,292	4,135	5,001
<b>Advanced Water Conservation WMS (ac-ft)</b>		11	16	22	29	36	44
<b>Net Water Demand (ac-ft)</b>		<b>1,157</b>	<b>1,789</b>	<b>2,497</b>	<b>3,263</b>	<b>4,099</b>	<b>4,957</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts *		1,157.0	MUNI						
Groundwater		0.0	GW						
Contracts									
<b>Total Supply (AF/yr)</b>				<b>1,157</b>	<b>1,789</b>	<b>2,706</b>	<b>2,967</b>	<b>3,170</b>	<b>3,324</b>
<b>Projected Supply Surplus/Deficit</b>				<b>0</b>	<b>0</b>	<b>209</b>	<b>-296</b>	<b>-929</b>	<b>-1,633</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	254	\$ 28,511.82	\$ 112.47	32	68	110	155	203	254
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	1,551	\$ 841,979.70	\$ 542.74	0	0	0	281	883	1,551
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	82	\$ 37,196.47	\$ 455.56	0	0	0	15	46	82
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Supplied by Sharyland WSC

Surplus/Deficit after WMS's	32	68	319	154	204	253
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WATER SUPPLY AND DEMAND ANALYSIS										
PALMVIEW										
Year		2010	2020	2030	2040	2050	2060			
Total Population	4107	6,258	8,771	11,586	14,632	17,959	21,372			
Total Water Demand		897	1,258	1,661	2,098	2,575	3,064			
Advanced Water Conservation WMS (ac-ft)		28	59	91	131	161	192			
Net Water Demand (ac-ft)		869	1,199	1,570	1,967	2,414	2,872			
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts*		869.0	MUNI							
Groundwater		0.0	GW							
Total Supply (AF/yr)**		869.0		869	1,199	1,570	1,967	1,967	1,967	
Projected Supply Surplus/Deficit				0	0	0	0	-447	-905	
Evaluation of Selected Water Management Strategies				Additional Supply by Decade						
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	0
Advanced Water Conservation Measures	128	\$ 14,355.69	\$ 112.47	16	34	55	78	102	128	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	860	\$ 466,756.40	\$ 542.74	0	0	0	0	425	860	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	0
Contract	45	\$ 20,636.87	\$ 455.56	0	0	0	0	22	45	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	0

\*Supplied by LaJoya WSC

\*\*Total supply based on LaJoya WSC's water supply

Surplus/Deficit after WMS's

16 34 55 78 102 127

**WATER SUPPLY AND DEMAND ANALYSIS**

**PENITAS**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	1167	1,201	1,241	1,285	1,333	1,385	1,439
<b>Total Water Demand</b>		153	158	164	170	177	184
<b>Advanced Water Conservation WMS (ac-ft)</b>		4	8	14	19	22	23
<b>Net Water Demand (ac-ft)</b>		<b>149</b>	<b>150</b>	<b>150</b>	<b>151</b>	<b>155</b>	<b>161</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts	860, Various	162.5	MUNI						
Groundwater		0.0	GW						
<b>Total Supply (AF/yr)</b>		<b>162.5</b>		<b>162</b>	<b>163</b>	<b>163</b>	<b>164</b>	<b>164</b>	<b>164</b>
<b>Projected Supply Surplus/Deficit</b>				<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>9</b>	<b>3</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	2	\$ 226.17	\$ 112.47	0	1	1	1	2	2
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 13      14      14      15      10      5

WATER SUPPLY AND DEMAND ANALYSIS										
PHARR										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>		46660	59,571	74,656	91,553	109,836	129,805	150,291		
<b>Total Water Demand</b>			8,808	11,039	13,537	16,240	19,193	22,222		
<b>Advanced Water Conservation WMS (ac-ft)</b>			334	669	1,026	1,353	1,745	2,020		
<b>Net Water Demand (ac-ft)</b>			<b>8,474</b>	<b>10,370</b>	<b>12,511</b>	<b>14,887</b>	<b>17,448</b>	<b>20,202</b>		
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts	808, 874	8,591.0	MUNI							
Groundwater Contracts		1,190.0	GW							
<b>Total Supply (AF/yr)</b>		<b>9,781.0</b>	<b>9,781</b>	<b>9,781</b>	<b>9,781</b>	<b>9,781</b>	<b>9,781</b>	<b>9,781</b>	<b>9,781</b>	<b>9,781</b>
<b>Projected Supply Surplus/Deficit</b>			<b>1,307</b>	<b>-589</b>	<b>-2,730</b>	<b>-5,106</b>	<b>-7,667</b>	<b>-10,421</b>		
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	100	\$ 30,446.00	\$ 304.46		100	100	100	100	100	100
Advanced Water Conservation Measures	766	\$ 86,168.21	\$ 112.47		95	207	332	467	615	766
Non-Potable Water Re-use	50	\$ 20,761.00	\$ 415.22		50	50	50	50	50	50
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	8,522	\$ 4,625,474.51	\$ 542.74		0	345.8	1976	3948.2	6286.15	8522.45
Urbanization	1,300	\$ 478,881.00	\$ 368.37		0	75	500	800	900	1,300
Contract	449	\$ 204,341.44	\$ 455.56		0	18.2	104	207.8	330.85	448.55
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

Surplus/Deficit after WMS's 1,552 207 331 467 614 766



WATER SUPPLY AND DEMAND ANALYSIS										
SAN JUAN										
Year		2010	2020	2030	2040	2050	2060			
Total Population	26229	39,074	54,082	70,892	89,081	108,947	129,327			
Total Water Demand		3,720	5,149	6,750	8,482	10,373	12,314			
Advanced Water Conservation WMS (ac-ft)		219	485	794	1,098	1,342	1,594			
Net Water Demand (ac-ft)		3,501	4,664	5,956	7,384	9,031	10,720			
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	808, 873	3,023.3	MUNI							
Groundwater		0.0	GW							
Total Supply (AF/yr)		3,023.3		3,023	3,023	3,023	3,023	3,023	3,023	3,023
Projected Supply Surplus/Deficit				-478	-1,641	-2,933	-4,361	-6,007	-7,697	
Evaluation of Selected Water Management Strategies				Additional Supply by Decade						
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)	2010	2020	2030	2040	2050	2060	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	
Advanced Water Conservation Measures	762	\$ 85,725.03	\$ 112.47	95	206	330	465	612	762	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	7,312	\$ 3,968,596.29	\$ 542.74	454	1,560	2,786	4,143	5,708	7,312	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	
Contract	385	\$ 175,322.27	\$ 455.56	24	82	147	218	300	385	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	

\*City of San Juan and HID #2 water rights

Surplus/Deficit after WMS's 95 207 331 465 612 762

WATER SUPPLY AND DEMAND ANALYSIS										
SHARYLAND WSC										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	27988	31,885	36,438	41,538	47,057	53,085	59,268			
<b>Total Water Demand</b>		5,036	5,755	6,561	7,432	8,384	9,361			
<b>Advanced Water Conservation WMS (ac-ft)</b>		143	286	465	685	892	996			
<b>Net Water Demand (ac-ft)</b>		<b>4,893</b>	<b>5,469</b>	<b>6,096</b>	<b>6,747</b>	<b>7,492</b>	<b>8,365</b>			
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts	809, 816, 846	12,139.6	MUNI							
Groundwater		0.0	GW							
Contract to Edinburg, Palmhurst, Alton		5,623.0								
<b>Total Supply (AF/yr)</b>		<b>6,516.6</b>		<b>6,517</b>	<b>5,078</b>	<b>5,698</b>	<b>5,416</b>	<b>5,196</b>	<b>5,030</b>	
<b>Projected Supply Surplus/Deficit</b>				<b>1,624</b>	<b>-392</b>	<b>-397</b>	<b>-1,331</b>	<b>-2,296</b>	<b>-3,335</b>	
<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0	0
Advanced Water Conservation Measures	231	\$ 26,009.03	\$ 112.47	29	62	100	141	186	231	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	3,168	\$ 1,719,536.01	\$ 542.74	0	372.4	377.15	1264.45	2181.2	3168.25	
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	0
Contract	167	\$ 75,964.63	\$ 455.56	0	19.6	19.85	66.55	114.8	166.75	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	0

Surplus/Deficit after WMS's 1,652      63      100      141      186      231

**WATER SUPPLY AND DEMAND ANALYSIS**

**SULLIVAN CITY**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	3998	5,528	7,315	9,317	11,483	13,849	16,276
<b>Total Water Demand</b>		557	737	939	1,158	1,396	1,641
<b>Advanced Water Conservation WMS (ac-ft)</b>		31	66	94	141	171	201
<b>Net Water Demand (ac-ft)</b>		<b>526</b>	<b>671</b>	<b>845</b>	<b>1,017</b>	<b>1,225</b>	<b>1,440</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts *	859, 521	685.0	MUNI						
Groundwater		0.0	GW						
<b>Total Supply (AF/yr)</b>		<b>685.0</b>		<b>685</b>	<b>858</b>	<b>1,029</b>	<b>1,029</b>	<b>1,029</b>	<b>1,029</b>
<b>Projected Supply Surplus/Deficit</b>				<b>159</b>	<b>187</b>	<b>184</b>	<b>12</b>	<b>-196</b>	<b>-411</b>

**Evaluation of Selected Water Management Strategies**

**Additional Supply by Decade**

<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	91	\$ 10,209.04	\$ 112.47	11	25	39	55	73	91
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	390	\$ 211,668.60	\$ 542.74	0	0	0	0	186	390
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	21	\$ 9,566.76	\$ 455.56	0	0	0	0	10	21
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*Supplied by LaJoya WSC

Surplus/Deficit after WMS's	170	211	223	68	72	90
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WATER SUPPLY AND DEMAND ANALYSIS										
WESLACO										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	26935	30,878	35,485	40,645	46,229	52,328	58,584			
<b>Total Water Demand</b>		5,707	6,558	7,512	8,544	9,671	10,828			
<b>Advanced Water Conservation WMS (ac-ft)</b>		173	358	546	725	879	984			
<b>Net Water Demand (ac-ft)</b>		<b>5,534</b>	<b>6,200</b>	<b>6,966</b>	<b>7,819</b>	<b>8,792</b>	<b>9,844</b>			
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts *	812, 824	8,576.2	MUNI							
Groundwater		0.0	GW							
Contract to NAWSC, MHWSC		495.0								
<b>Total Supply (AF/yr)</b>		<b>8,081.2</b>		<b>8,081</b>	<b>8,081</b>	<b>8,081</b>	<b>8,081</b>	<b>8,081</b>	<b>8,081</b>	<b>8,081</b>
<b>Projected Supply Surplus/Deficit</b>				<b>2,547</b>	<b>1,881</b>	<b>1,116</b>	<b>262</b>	<b>-711</b>	<b>-1,762</b>	
<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
Additional Groundwater	500	\$ 152,230.00	\$ 304.46	0	0	0	0	0	0	500
Advanced Water Conservation Measures	234	\$ 26,315.85	\$ 112.47	29	63	101	143	188	234	
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0	0
Potable Water Re-use	1,120	\$ 790,596.80	\$ 705.89	1,120	1120	1120	1120	1120	1120	1120
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	135	\$ 73,269.90	\$ 542.74	0	0	0	0	0	0	135
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0	0
Contract	7	\$ 3,188.92	\$ 455.56	0	0	0	0	0	0	7
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0	0

\*City of Weslaco and HCCID #9 water rights

Surplus/Deficit after WMS's 3,696    3,064    2,337    1,525    597    234

WATER SUPPLY AND DEMAND ANALYSIS										
HEBBRONVILLE										
Year		2010	2020	2030	2040	2050	2060			
<b>Total Population</b>	4498	4,764	5,098	5,354	5,569	5,509	5,302			
<b>Total Water Demand</b>		747	799	840	873	864	831			
<b>Advanced Water Conservation WMS (ac-ft)</b>		16	40	60	81	86	83			
<b>Net Water Demand (ac-ft)</b>		<b>731</b>	<b>759</b>	<b>780</b>	<b>792</b>	<b>778</b>	<b>748</b>			
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts Groundwater*		900.0	MUNI GW							
<b>Total Supply (AF/yr)</b>		<b>900.0</b>		<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>	<b>900</b>
<b>Projected Supply Surplus/Deficit</b>				<b>169</b>	<b>141</b>	<b>120</b>	<b>108</b>	<b>122</b>	<b>152</b>	
<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>						
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	8	\$ 890.53	\$ 112.47		2	4	6	8	7	6
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Based on well capacity of 0.8 MGD

Surplus/Deficit after WMS's 171 145 126 116 130 158

**WATER SUPPLY AND DEMAND ANALYSIS**

**EAGLE PASS**

<b>Year</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	22413	23,800	25,267	26,654	27,856	28,956	29,849
<b>Total Water Demand</b>		5,012	5,321	5,613	5,866	6,098	6,286
<b>Advanced Water Conservation WMS (ac-ft)</b>		80	198	299	406	454	468
<b>Net Water Demand (ac-ft)</b>		<b>4,932</b>	<b>5,123</b>	<b>5,314</b>	<b>5,460</b>	<b>5,644</b>	<b>5,818</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts*	3998, 2671	8,667.0	MUNI						
Groundwater		0.0	GW						
Contract to El Indio WSC		1,253.0							
<b>Total Supply (AF/yr)</b>		<b>7,414.0</b>		<b>6,454</b>	<b>6,140</b>	<b>5,852</b>	<b>5,599</b>	<b>5,372</b>	<b>5,177</b>
<b>Projected Supply Surplus/Deficit</b>				<b>1,522</b>	<b>1,017</b>	<b>538</b>	<b>139</b>	<b>-272</b>	<b>-641</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	55	\$ 6,182.96	\$ 112.47	10	21	31	40	48	55
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 542.74	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination**	641	\$ 324,031.91	\$ 505.51	0	260	260	260	272	641
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

\*City of Eagle Pass and Maverick County WID water rights

\*\* Desal as an option in the future as indicated in survey

Surplus/Deficit after WMS's 1,532    1,298    829    439    48    55

WATER SUPPLY AND DEMAND ANALYSIS										
EL INDIO WSC										
Year					2010	2020	2030	2040	2050	2060
Total Population	5235				6,994	8,855	10,615	12,140	13,536	14,668
Total Water Demand					1,293	1,637	1,962	2,244	2,502	2,711
Advanced Water Conservation WMS (ac-ft)					39	69	107	136	167	181
Net Water Demand (ac-ft)					1,254	1,568	1,855	2,108	2,335	2,530
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts		1,253.0	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)</b>		<b>1,253.0</b>			<b>1,253</b>	<b>1,567</b>	<b>1,855</b>	<b>2,108</b>	<b>2,335</b>	<b>2,530</b>
<b>Projected Supply Surplus/Deficit</b>					<b>-1</b>	<b>-1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	70	\$ 7,843.45	\$ 112.47		13	27	40	51	61	70
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	1	\$ 542.74	\$ 542.74		1	1	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ 22.78	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

Surplus/Deficit after WMS's

13 27 40 51 61 69

WATER SUPPLY AND DEMAND ANALYSIS										
LA GRULLA										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>		1211			1,211	1,211	1,211	1,211	1,211	1,211
<b>Total Water Demand</b>					643	643	643	643	643	643
<b>Advanced Water Conservation WMS (ac-ft)</b>					4	8	12	16	19	19
<b>Net Water Demand (ac-ft)</b>					<b>639</b>	<b>635</b>	<b>631</b>	<b>627</b>	<b>624</b>	<b>624</b>
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	863	522.1	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)</b>		<b>522.1</b>			<b>522</b>	<b>522</b>	<b>522</b>	<b>522</b>	<b>522</b>	<b>522</b>
<b>Projected Supply Surplus/Deficit</b>					<b>-117</b>	<b>-113</b>	<b>-109</b>	<b>-105</b>	<b>-102</b>	<b>-102</b>
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	111	\$ 60,325.55	\$ 542.74		111	107	104	100	97	97
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	6	\$ 2,665.03	\$ 455.56		6	6	5	5	5	5
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

Surplus/Deficit after WMS's 0      0      0      0      0      0





**WATER SUPPLY AND DEMAND ANALYSIS**

**ROMA CITY**

<b>Year</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
<b>Total Population</b>	9617	11,097	12,678	14,306	15,948	17,118
<b>Total Water Demand</b>	2,784	3,181	3,590	4,002	4,408	4,797
<b>Advanced Water Conservation WMS (ac-ft)</b>	62	128	192	250	295	321
<b>Net Water Demand (ac-ft)</b>	<b>2,722</b>	<b>3,053</b>	<b>3,398</b>	<b>3,752</b>	<b>4,113</b>	<b>4,476</b>

<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>						
Amistad-Falcon Water Right/Contracts	730, 814	2,841.2	MUNI						
Groundwater		0.0	GW						
<b>Total Supply (AF/yr)</b>		<b>2,841.2</b>		<b>2,842</b>	<b>2,842</b>	<b>2,842</b>	<b>2,842</b>	<b>2,842</b>	<b>2,842</b>
<b>Projected Supply Surplus/Deficit</b>				<b>121</b>	<b>-211</b>	<b>-555</b>	<b>-910</b>	<b>-1,270</b>	<b>-1,633</b>

<b>Evaluation of Selected Water Management Strategies</b>				<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46	0	0	0	0	0	0
Advanced Water Conservation Measures	70	\$ 7,899.99	\$ 112.47	11	23	35	47	59	70
Non-Potable Water Re-use	0	\$ -	\$ 415.22	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27	0	0	0	0	0	0
<b>Acquisition of Water Rights:</b>									
Purchase	1,552	\$ 842,332.48	\$ 542.74	0	200	527	864	1207	1552
Urbanization	0	\$ -	\$ 368.37	0	0	0	0	0	0
Contract	82	\$ 37,242.03	\$ 455.56	0	10.6	27.85	45.55	63.6	81.75
<b>Desalination:</b>									
Brackish Groundwater Desalination	0	\$ -	\$ 505.51	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63	0	0	0	0	0	0

Surplus/Deficit after WMS's 131      22      34      47      59      71

WATER SUPPLY AND DEMAND ANALYSIS										
EL CENIZO										
Year					2010	2020	2030	2040	2050	2060
Total Population		3545			5,929	8,729	11,865	15,315	19,085	23,068
Total Water Demand					697	1,027	1,396	1,801	2,245	2,713
Advanced Water Conservation WMS (ac-ft)					27	59	93	137	171	207
Net Water Demand (ac-ft)					670	968	1,303	1,664	2,074	2,506
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts *	2720	879.9	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)**</b>		<b>879.9</b>			<b>880</b>	<b>910</b>	<b>927</b>	<b>938</b>	<b>946</b>	<b>952</b>
<b>Projected Supply Surplus/Deficit</b>					<b>209</b>	<b>-59</b>	<b>-376</b>	<b>-725</b>	<b>-1,128</b>	<b>-1,554</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	144	\$ 16,233.19	\$ 112.47		18	38	62	87	115	144
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	1,476	\$ 801,247.06	\$ 542.74		0	56.05	357.2	688.75	1071.6	1476.3
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	78	\$ 35,397.01	\$ 455.56		0	2.95	18.8	36.25	56.4	77.7
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Supplied by Webb County Water Utility

\*\*Projected supply based on Webb County Water Utility supply

Surplus/Deficit after WMS's 227 39 62 87 115 144





WATER SUPPLY AND DEMAND ANALYSIS										
WEBB COUNTY WATER UTILITY										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>	851	1,326	1,884	2,509	3,197	3,949	4,743			
<b>Total Water Demand</b>		247	350	467	594	734	882			
<b>Advanced Water Conservation WMS (ac-ft)</b>		7	15	25	36	44	53			
<b>Net Water Demand (ac-ft)</b>		<b>240</b>	<b>335</b>	<b>442</b>	<b>558</b>	<b>690</b>	<b>829</b>			
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts	2720	2,311.1	MUNI							
Groundwater		0.0	GW							
Contract to Rio Bravo and El Cenizo		2,114.0								
<b>Total Supply (AF/yr)</b>		<b>197.1</b>		<b>197</b>	<b>196</b>	<b>196</b>	<b>196</b>	<b>196</b>	<b>196</b>	<b>196</b>
<b>Projected Supply Surplus/Deficit</b>				<b>-43</b>	<b>-139</b>	<b>-246</b>	<b>-362</b>	<b>-494</b>	<b>-633</b>	
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	29	\$ 3,236.16	\$ 112.47		4	8	12	17	23	29
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	601	\$ 326,376.70	\$ 542.74		41	132	234	344	469	601
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	32	\$ 14,418.47	\$ 455.56		2	7	12	18	25	32
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

Surplus/Deficit after WMS's 4 8 13 17 23 29



WATER SUPPLY AND DEMAND ANALYSIS										
NORTH ALAMO WSC (Willacy County)										
Year		2010	2020	2030	2040	2050	2060			
Total Population	5696	7,187	8,649	9,981	11,052	11,781	12,141			
Total Water Demand		773	930	1,073	1,188	1,267	1,306			
Advanced Water Conservation WMS (ac-ft)		40	78	112	136	145	150			
Net Water Demand (ac-ft)		733	853	961	1,052	1,122	1,156			
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts			MUNI	1,217	1097.9	990.799	889.001	786.122	690.312	
Groundwater			GW	79	71	64	58	51	51	
Total Supply (AF/yr)		1,296.2		1,296	1,169	1,055	947	837	741	
Projected Supply Surplus/Deficit*				563	317	94	-105	-285	-415	
Evaluation of Selected Water Management Strategies										
Additional Supply by Decade										
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	48	\$ 5,358.96	\$ 112.47		11	22	32	40	45	48
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	11,201	\$ 5,662,217.51	\$ 505.51		11,201	11201	11201	11201	11201	11201
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Based on water available for Willacy County only

Surplus/Deficit after WMS's 11,776 11,539 11,327 11,135 10,961 10,834

WATER SUPPLY AND DEMAND ANALYSIS										
RAYMONDVILLE										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>	9733	10,071	10,402	10,704	10,947	11,112	11,194			
<b>Total Water Demand</b>		1,726	1,783	1,834	1,876	1,904	1,918			
<b>Advanced Water Conservation WMS (ac-ft)</b>		2	5	7	9	10	11			
<b>Net Water Demand (ac-ft)</b>		<b>45</b>	<b>82</b>	<b>120</b>	<b>159</b>	<b>174</b>	<b>176</b>			
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts *	811	5,670.0	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)</b>		<b>5,670.0</b>		<b>5,670</b>	<b>5,670</b>	<b>5,670</b>	<b>5,670</b>	<b>5,670</b>	<b>5,670</b>	<b>5,670</b>
<b>Projected Supply Surplus/Deficit</b>				<b>5,625</b>	<b>5,588</b>	<b>5,550</b>	<b>5,511</b>	<b>5,496</b>	<b>5,494</b>	
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	11	\$ 1,214.81	\$ 112.47		2	5	7	9	10	11
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination*	100	\$ 50,551.00	\$ 505.51		0	100	100	100	100	100
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Supplied by Delta Lake ID

\*Interconnect with Willacy Desal. Plant

Surplus/Deficit after WMS's 5,627 5,693 5,657 5,620 5,606 5,605

WATER SUPPLY AND DEMAND ANALYSIS										
SAN PERLITA										
Year					2010	2020	2030	2040	2050	2060
<b>Total Population</b>		680			747	812	871	919	952	968
<b>Total Water Demand</b>					109	118	127	134	139	141
<b>Advanced Water Conservation WMS (ac-ft)</b>					3	6	10	13	15	15
<b>Net Water Demand (ac-ft)</b>					<b>106</b>	<b>112</b>	<b>117</b>	<b>121</b>	<b>124</b>	<b>126</b>
<b>Current Water Supply</b>	<b>Water Right Number</b>	<b>Amount</b>	<b>Type</b>							
Amistad-Falcon Water Right/Contracts *		120.0	MUNI							
Groundwater		0.0	GW							
<b>Total Supply (AF/yr)</b>		<b>120.0</b>			<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>
<b>Projected Supply Surplus/Deficit</b>					<b>14</b>	<b>8</b>	<b>3</b>	<b>-1</b>	<b>-4</b>	<b>-6</b>
<b>Evaluation of Selected Water Management Strategies</b>					<b>Additional Supply by Decade</b>					
<b>Strategy</b>	<b>Yield (AF/yr)</b>	<b>Total Annual Cost</b>	<b>Unit Cost (\$)</b>		<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	2	\$ 239.47	\$ 112.47		0	1	1	2	2	2
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination*	25	\$ 12,637.75	\$ 505.51		25	25	25	25	25	25
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

\*Supplied by NAWSC

\*Interconnect with NAWSC Desal. Plant

Surplus/Deficit after WMS's 40 34 29 26 23 21



WATER SUPPLY AND DEMAND ANALYSIS										
ZAPATA										
Year					2010	2020	2030	2040	2050	2060
Total Population		4856			4,856	4,856	4,856	4,856	4,856	4,856
Total Water Demand					1,050	1,050	1,050	1,050	1,050	1,050
Advanced Water Conservation WMS (ac-ft)					16	33	49	65	76	76
Net Water Demand (ac-ft)					1,034	1,017	1,001	985	974	974
Current Water Supply	Water Right Number	Amount	Type							
Amistad-Falcon Water Right/Contracts	803, 2804, 2806	1,905.2	MUNI							
Groundwater		0.0	GW							
Total Supply (AF/yr)		1,905.2			1,905	1,905	1,905	1,905	1,905	1,905
Projected Supply Surplus/Deficit					872	888	904	920	931	931
Evaluation of Selected Water Management Strategies					Additional Supply by Decade					
Strategy	Yield (AF/yr)	Total Annual Cost	Unit Cost (\$)		2010	2020	2030	2040	2050	2060
Additional Groundwater	0	\$ -	\$ 304.46		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ 112.47		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 415.22		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 705.89		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 537.27		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 542.74		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 368.37		0	0	0	0	0	0
Contract	0	\$ -	\$ 455.56		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 505.51		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 767.63		0	0	0	0	0	0

Surplus/Deficit after WMS's

872 888 904 920 931 931