

WATER SUPPLY AND DEMAND ANALYSIS

Wholesale Water Providers: Summary

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	241723	241688	241688	241689	241688	241695
Current Water Supply						
Source						
Total Supply (AF/yr)	281,320	234,839	234,839	234,842	234,840	234,847
Projected Supply Surplus/Deficit	39,597	-6,849	-6,849	-6,847	-6,848	-6,848

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	\$ -	\$ 214.96	0	150	350	588	875	1450
Advanced Water Conservation Measures	2,878	\$ -	\$ -	381	815	1,290	1,795	2,334	2,878
Non-Potable Water Re-use	17,734	\$ 2,668,080.30	\$ 150.45	0	447	4047	7950	13128	17734
Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	12,608	\$ 5,423,079.04	\$ 430.13	0	955	2864	5796	8290	12608
Urbanization	0	\$ -	\$ 430.13	0	0	0	0	0	0
Contract		\$ -	\$ 430.13	0	50	151	305	434	661
Desalination:									
Brackish Groundwater Desalination	20,642	\$ 9,600,594.20	\$ 465.10	18,189	18742	19042	19642	20142	20642
Seawater Desalination	864	\$ 907,727.04	\$ 1,050.61	100	100	118	424	796	864
Banco Morales Reservoir	0	\$ -	\$ 2,542.00	0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00	0	0	0	0	0	0
Laredo Low Water Weir	0	\$ -	\$ 4,460.00	0	0	0	0	0	0
Proposed Elsa Tank	0	\$ -		0	0	0	0	0	0
On-Farm Conservation	100	\$ 25,338.00	\$ 253.38	100	100	100	100	100	100
Conveyance System Conservation	100	\$ 12,068.00	\$ 120.68	100	100	100	100	100	100

WATER SUPPLY AND DEMAND ANALYSIS										
Brownsville Irrigation District										
Year		2010	2020	2030	2040	2050	2060			
Total Water Demand		6105	6071	6071	6071	6071	6071			
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	6,071	6071	6071	6072	6072	6071			
Ground Water	GULF COAST	39	39	39	39	39	39			
Total Supply (AF/yr)		6,110	6,110	6,110	6,111	6,111	6,110			
Projected Supply Surplus/Deficit		5	39	39	40	40	39			
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:	0									
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0
Laredo Low Water Weir	0	\$ -	\$ 4,460.00		0	0	0	0	0	0
Proposed Elsa Tank	0	\$ -			0	0	0	0	0	0
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										
Brownsville Irrigation District										
Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	15198	15198	15198	15198	15198	15198				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	15,198	15198	15198	15198	15198	15198	15198	15198	15198
Ground Water	GULF COAST	0	0	0	0	0	0	0	0	0
Total Supply (AF/yr)	15,198	15,198	15,198	15,198	15,198	15,198	15,198	15,198	15,198	15,198
Projected Supply Surplus/Deficit	0	0	0	0	0	0	0	0	0	0
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:	0									
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0
Laredo Low Water Weir	0	\$ -	\$ 4,460.00		0	0	0	0	0	0
Proposed Elsa Tank	0	\$ -			0	0	0	0	0	0
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

Delta Lake Municipal Authority

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	8200	8200	8200	8200	8200	8200
Current Water Supply	Source					
Surface Water	AMISTAD/FALCON	8,200	8200	8200	8200	8200
Ground Water	GULF COAST	0	0	0	0	0
Total Supply (AF/yr)	8,200	8,200	8,200	8,200	8,200	8,200
Projected Supply Surplus/Deficit	0	0	0	0	0	0

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:	0									
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS										
Donna Irrigation District Hidalgo County #1										
Year					2010	2020	2030	2040	2050	2060
Total Water Demand					6880	6880	6880	6880	6880	6880
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON				18,980	6880	6880	6880	6880	6880
Ground Water	GULF COAST				0	0	0	0	0	0
Total Supply (AF/yr)					18,980	6,880	6,880	6,880	6,880	6,880
Projected Supply Surplus/Deficit					12,100	0	0	0	0	0
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:	0									
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Eagle Pass

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	7707	7707	7707	7707	7707	7707

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	7,707	7707	7707	7707	7707	7707
Ground Water	GULF COAST	0	0	0	0	0	0
Total Supply (AF/yr)		7,707	7,707	7,707	7,707	7,707	7,707
Projected Supply Surplus/Deficit		0	0	0	0	0	0

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	55	\$ -	\$ -		10	21	31	40	48	55
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:	0									
Brackish Groundwater Desalination	260	\$ 120,926.00	\$ 465.10		0	260	260	260	260	260
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Harlingen

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	19238	19238	19238	19238	19238	19238

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	19,238	19238	19238	19238	19238	19238
Ground Water	GULF COAST	0	0	0	0	0	0
Total Supply (AF/yr)		19,238	19,238	19,238	19,238	19,238	19,238
Projected Supply Surplus/Deficit		0	0	0	0	0	0

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	435	\$ -	\$ -		68	141	215	290	364	435
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	50	\$ 21,506.50	\$ 430.13		0	0	0	0	50	50
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	25	\$ 11,627.50	\$ 465.10		0	25	25	25	25	25
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Hidalgo County Irrigation District #6

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	8291	8291	8291	8291	8291	8291				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	8,291	8291	8291	8291	8291				
Ground Water	GULF COAST	0	0	0	0	0				
Total Supply (AF/yr)	8,291	8,291	8,291	8,291	8,291	8,291				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Hidalgo County WCID #1

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	1437	1437	1437	1437	1437	1437				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	1,437	1437	1437	1437	1437				
Ground Water	GULF COAST	0	0	0	0	0				
Total Supply (AF/yr)	1,437	1,437	1,437	1,437	1,437	1,437				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Hidalgo County WCID #16

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	1047	1047	1047	1047	1047	1047				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	1,047	1047	1047	1047	1047				
Ground Water	GULF COAST	0	0	0	0	0				
Total Supply (AF/yr)	1,047	1,047	1,047	1,047	1,047	1,047				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Hidalgo County WCID #2

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	24667	24667	24667	24667	24667	24667

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	59,047	24667	24667	24667	24667	24667
Ground Water	GULF COAST	0	0	0	0	0	0
Total Supply (AF/yr)		59,047	24,667	24,667	24,667	24,667	24,667
Projected Supply Surplus/Deficit		34,380	0	0	0	0	0

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Hidalgo County WCID #3

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	13980	13980	13980	13980	13980	13980				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	13,980	13980	13980	13980	13980				
Ground Water	GULF COAST	0	0	0	0	0				
Total Supply (AF/yr)	13,980	13,980	13,980	13,980	13,980	13,980				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS										
Hidalgo-Cameron WCID #9										
Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	11500	11500	11500	11500	11500	11500				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	11,500	11500	11500	11500	11500	11500			
Ground Water	GULF COAST	0	0	0	0	0	0			
Total Supply (AF/yr)	11,500	11,500	11,500	11,500	11,500	11,500				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

La Feria WCID #3

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	4852	4852	4852	4852	4852	4852

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	4,852	4852	4852	4852	4852	4852
Ground Water	GULF COAST	0	0	0	0	0	0
Total Supply (AF/yr)		4,852	4,852	4,852	4,852	4,852	4,852
Projected Supply Surplus/Deficit		0	0	0	0	0	0

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

La Joya WSC

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	1554	2057	2599	2996	2996	2996
Current Water Supply						
	Source					
Surface Water	AMISTAD/FALCON	1,554	2057	2599	2996	2996
Ground Water	GULF COAST	0	0	0	0	0
Total Supply (AF/yr)	1,554	2,057	2,599	2,996	2,996	2,996
Projected Supply Surplus/Deficit	0	0	0	0	0	0

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	\$ -	\$ 214.96	0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -	0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	0	\$ -	\$ 430.13	0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13	0	0	0	0	0	0
Contract		\$ -	\$ 430.13	0	0	0	0	0	0
Desalination:									
Brackish Groundwater Desalination	0	\$ -	\$ 465.10	0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61	0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00	0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00	0	0	0	0	0	0
Laredo Low Water Weir	0	\$ -	\$ 4,460.00	0	0	0	0	0	0
Proposed Elsa Tank	0	\$ -		0	0	0	0	0	0
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

Laguna Madre WD

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	7480	7480	7480	7480	7480	7480

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	7,480	7480	7480	7480	7480	7480
Ground Water	GULF COAST	0	0	0	0	0	0
Total Supply (AF/yr)		7,480	7,480	7,480	7,480	7,480	7,480
Projected Supply Surplus/Deficit		0	0	0	0	0	0

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	164	\$ -	\$ -		26	53	81	109	137	164
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	950	\$ 408,623.50	\$ 430.13		0	0	48	238	475	950
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	2	12	25	50
Desalination:										
Brackish Groundwater Desalination	2,000	\$ 930,200.00	\$ 465.10		100	100	400	1,000	1,500	2,000
Seawater Desalination	864	\$ 907,727.04	\$ 1,050.61		100	100	118	424	796	864
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

McAllen

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	33548	33548	33548	33548	33548	33548

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	33,548	33548	33548	33548	33548	33548
Ground Water	GULF COAST	0	0	0	0	0	0
Total Supply (AF/yr)		33,548	33,548	33,548	33,548	33,548	33,548
Projected Supply Surplus/Deficit		0	0	0	0	0	0

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	\$ -	\$ 214.96		0	150	350	588	875	1,450
Advanced Water Conservation Measures	164	\$ -	\$ -		26	53	81	109	137	164
Non-Potable Water Re-use	17,734	\$ 2,668,080.30	\$ 150.45		0	447	4,047	7,950	13,128	17,734
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	7,221	\$ 3,105,968.73	\$ 430.13		0	499	2,280	4,085	5,321	7,221
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	26	120	215	280	380
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS										
Military Highway WSC										
Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	3620	4020	4130	4254	4369	4502				
Current Water Supply		Source								
Surface Water	AMISTAD/FALCON									
Ground Water	GULF COAST									
Total Supply (AF/yr)	3,620	4,020	4,130	4,254	4,369	4,502				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96	0	0	0	0	0	0	
Advanced Water Conservation Measures	0	\$ -	\$ -	0	0	0	0	0	0	
Non-Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0	
Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0	
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90	0	0	0	0	0	0	
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13	0	0	0	0	0	0	
Urbanization	0	\$ -	\$ 430.13	0	0	0	0	0	0	
Contract		\$ -	\$ 430.13	0	0	0	0	0	0	
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10	0	0	0	0	0	0	
Seawater Desalination	0	\$ -	\$ 1,050.61	0	0	0	0	0	0	
Banco Morales Reservoir	0	\$ -	\$ 2,542.00	0	0	0	0	0	0	
Resaca Restoration	0	\$ -	\$ 4,825.00	0	0	0	0	0	0	
Laredo Low Water Weir	0	\$ -	\$ 4,460.00	0	0	0	0	0	0	
Proposed Elsa Tank	0	\$ -		0	0	0	0	0	0	
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

North Alamo WSC

Year	2010	2020	2030	2040	2050	2060			
Total Water Demand	22218	22218	22218	22218	22218	22224			
Current Water Supply	Source								
Surface Water	AMISTAD/FALCON	22,218	22218	22218	22218	22218	22224		
Ground Water	GULF COAST	0	0	0	0	0	0		
Total Supply (AF/yr)	22,218	22,218	22,218	22,218	22,218	22,224			
Projected Supply Surplus/Deficit	0	0	0	0	0	0			
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	\$ -	\$ 214.96	0	0	0	0	0	0
Advanced Water Conservation Measures	1,993	\$ -	\$ -	248	538	863	1,215	1,599	1,993
Non-Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45	0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90	0	0	0	0	0	0
Acquisition of Water Rights:									
Purchase	902	\$ 387,977.26	\$ 430.13	0	0	0	0	0	902
Urbanization	0	\$ -	\$ 430.13	0	0	0	0	0	0
Contract		\$ -	\$ 430.13	0	0	0	0	0	48
Desalination:									
Brackish Groundwater Desalination	11,201	\$ 5,209,585.10	\$ 465.10	11,201	11,201	11,201	11,201	11,201	11,201
Seawater Desalination	0	\$ -	\$ 1,050.61	0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00	0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00	0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Sharyland WSC

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	12140	12139	12139	12140	12139	12140				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	12,140	12139	12139	12140	12139	12140			
Ground Water	GULF COAST	0	0	0	0	0	0			
Total Supply (AF/yr)	12,140	12,139	12,139	12,140	12,139	12,140				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	231	\$ -	\$ -		29	62	100	141	186	231
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	3,168	\$ 1,362,651.84	\$ 430.13		0	343	377	1,264	2,181	3,168
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	18	20	67	115	167
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Southmost Regional Water Authority

Year	2010	2020	2030	2040	2050	2060
Total Water Demand	11844	11844	11844	11844	11844	11844

Current Water Supply	Source						
Surface Water	AMISTAD/FALCON	0	0	0	0	0	0
Ground Water	GULF COAST	4,956	4956	4956	4956	4956	4956
Total Supply (AF/yr)		4,956	4,956	4,956	4,956	4,956	4,956
Projected Supply Surplus/Deficit		-6,888	-6,888	-6,888	-6,888	-6,888	-6,888

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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	6,888	\$ 3,203,608.80	\$ 465.10		6,888	6,888	6,888	6,888	6,888	6,888
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

United Irrigation District

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	24009	24009	24009	24009	24009	24009				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	24009	24009	24009	24009	24009				
Ground Water	GULF COAST	0	0	0	0	0				
Total Supply (AF/yr)	24,009	24,009	24,009	24,009	24,009	24,009				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS

Valley MUD #2

Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	1382	1382	1382	1382	1382	1382				
Current Water Supply	Source									
Surface Water	AMISTAD/FALCON	898	898	899	899	898				
Ground Water	GULF COAST	484	484	483	484	485				
Total Supply (AF/yr)	1,382	1,382	1,382	1,383	1,382	1,383				
Projected Supply Surplus/Deficit	0	0	0	1	0	1				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	317	\$ 136,351.21	\$ 430.13		0	113	159	209	263	317
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	6	9	11	14	16
Desalination:										
Brackish Groundwater Desalination	268	\$ 124,646.80	\$ 465.10		0	268	268	268	268	268
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0

WATER SUPPLY AND DEMAND ANALYSIS										
Webb County Water Utility										
Year	2010	2020	2030	2040	2050	2060				
Total Water Demand	2311	2311	2311	2311	2311	2312				
Current Water Supply		Source								
Surface Water	2311	2311	2311	2311	2311	2312	AMISTAD/FALCON			
Ground Water	0	0	0	0	0	0	GULF COAST			
Total Supply (AF/yr)	2,311	2,311	2,311	2,311	2,311	2,312				
Projected Supply Surplus/Deficit	0	0	0	0	0	0				
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	\$ -	\$ 214.96		0	0	0	0	0	0
Advanced Water Conservation Measures	0	\$ -	\$ -		0	0	0	0	0	0
Non-Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Potable Water Re-use	0	\$ -	\$ 150.45		0	0	0	0	0	0
Brownsville Weir and Reservoir	0	\$ -	\$ 182.90		0	0	0	0	0	0
Acquisition of Water Rights:										
Purchase	0	\$ -	\$ 430.13		0	0	0	0	0	0
Urbanization	0	\$ -	\$ 430.13		0	0	0	0	0	0
Contract		\$ -	\$ 430.13		0	0	0	0	0	0
Desalination:										
Brackish Groundwater Desalination	0	\$ -	\$ 465.10		0	0	0	0	0	0
Seawater Desalination	0	\$ -	\$ 1,050.61		0	0	0	0	0	0
Banco Morales Reservoir	0	\$ -	\$ 2,542.00		0	0	0	0	0	0
Resaca Restoration	0	\$ -	\$ 4,825.00		0	0	0	0	0	0
Laredo Low Water Weir	0	\$ -	\$ 4,460.00		0	0	0	0	0	0
Proposed Elsa Tank	0	\$ -			0	0	0	0	0	0
On-Farm Conservation	0	\$ -	\$ 253.38		0	0	0	0	0	0
Conveyance System Conservation	0	\$ -	\$ 120.68		0	0	0	0	0	0