

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Agua SUD	Use Type	2030	2040	2050	2060	2070	2080
Population		66,231	71,088	74,224	75,649	77,086	78,536
WUG Demand	Municipal	7,126	7,605	7,940	8,092	8,246	8,401
WWP Supplies		8,545	8,545	8,545	8,545	8,545	8,545
WWP Need/Surplus		1,419	940	605	453	299	144
Irrigation District Conservation		382	762	1,144	1,525	1,905	2,286
Drought Management		209	224	234	239	243	248
Conversion/Purchase of Surface Water Rights		-	1,120	1,120	1,120	1,120	1,120
West WWTP Indirect Potable Reuse		-	1,120	1,120	1,120	1,120	1,120
Brackish Groundwater Desalination		2,800	2,800	5,600	5,600	5,600	5,600
New Supplies from WMS		3,391	6,026	9,218	9,604	9,988	10,374
Balance After WMS		4,810	6,966	9,823	10,057	10,287	10,518
Management Supply Factor		1.67	1.92	2.24	2.24	2.25	2.25

Alamo		2030	2040	2050	2060	2070	2080
Population		19,549	20,026	20,404	21,105	21,819	22,550
WUG Demand	Municipal	2,638	2,688	2,739	2,833	2,929	3,027
WWP Supplies		3,653	3,653	3,653	3,653	3,653	3,653
WWP Need/Surplus		1,015	965	914	820	724	626
Irrigation District Conservation		104	209	313	418	522	626
Drought Management		89	91	92	96	99	102
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Fresh Groundwater Well		1,120	1,120	1,120	1,120	1,120	1,120
Brackish Groundwater Desalination		896	896	896	896	896	896
New Supplies from WMS		2,209	2,366	2,471	2,580	2,687	2,794
Balance After WMS		3,224	3,331	3,385	3,400	3,411	3,420
Management Supply Factor		2.22	2.24	2.24	2.20	2.16	2.13

Bayview Irrigation District No. 11		2030	2040	2050	2060	2070	2080
County-Other, Cameron – Contract Demand	Municipal	183	183	183	183	183	183
Irrigation, Cameron – Contract Demand	Irrigation	16,978	16,978	16,978	16,978	16,978	16,978
WWP Demand		17,161	17,161	17,161	17,161	17,161	17,161
County-Other, Cameron – Sale/Transfer	Municipal	124	124	124	124	124	124
Irrigation, Cameron – Sale/Transfer	Irrigation	4,604	4,601	4,597	4,589	4,578	4,565

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

WWP Supplies		4,728	4,725	4,721	4,713	4,702	4,689
County-Other, Cameron	Municipal	59	59	59	59	59	59
Irrigation, Cameron	Irrigation	12,374	12,377	12,381	12,389	12,400	12,413
WWP Need/Surplus		(12,433)	(12,436)	(12,440)	(12,448)	(12,459)	(12,472)
Irrigation District Conservation		255	510	765	1,020	1,275	1,530
Conversion/Purchase of Surface Water Rights		176	176	176	176	176	176
New Supplies from WMS		431	686	941	1,196	1,451	1,706
Balance After WMS		(12,002)	(11,750)	(11,499)	(11,252)	(11,008)	(10,766)
Management Supply Factor		0.30	0.32	0.33	0.34	0.36	0.37

Brownsville PUB		2030	2040	2050	2060	2070	2080
Population		191,689	196,629	198,396	197,812	197,213	196,600
WUG Demand	Municipal	32,212	32,908	33,204	33,106	33,006	32,903
El Jardin WSC – Contract Demand	Municipal	1,200	1,200	1,200	1,200	1,200	1,200
Cameron County Irrigation – Contract Demand	Irrigation	1,783	1,783	1,783	1,783	1,783	1,783
Cameron County Manufacturing – Contract Demand	Manufacturing	292	292	292	292	292	292
Steam Electric Power Generation, Cameron County – Contract Demand	Steam Electric Power	165	165	165	165	165	165
WWP Demand		35,652	36,348	36,644	36,546	36,446	36,343
WUG Supply	Municipal	42,274	42,274	42,274	42,274	42,274	42,274
El Jardin WSC – Sale/Transfer	Municipal	1,200	1,200	1,200	1,200	1,200	1,200
Cameron County Irrigation – Sale/Transfer	Irrigation	711	710	710	709	707	705
Cameron County Manufacturing – Sale/Transfer	Manufacturing	292	292	292	292	292	292
Steam Electric Power Generation, Cameron County – Sale/Transfer	Steam Electric Power	165	165	165	165	165	165
WWP Supplies		44,642	44,641	44,641	44,640	44,638	44,636
WUG Need	Municipal	10,062	9,366	9,070	9,168	9,268	9,371
El Jardin WSC	Municipal	-	-	-	-	-	-
Cameron County Irrigation	Irrigation	(1,072)	(1,073)	(1,073)	(1,074)	(1,076)	(1,078)
Cameron County Manufacturing	Manufacturing	-	-	-	-	-	-
Steam Electric Power Generation, Cameron County	Steam Electric Power	-	-	-	-	-	-
WWP Need/Surplus		8,990	8,293	7,997	8,094	8,192	8,293
Advanced Municipal Conservation		3,225	4,650	6,114	7,447	8,706	9,890
Irrigation District Conservation		2	5	7	10	13	15
Drought Management		661	678	684	682	680	678
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Southside WWTP Potable Reuse		-	-	3,360	3,360	3,360	3,360
Indirect Potable Reuse		4,480	4,480	4,480	4,480	4,480	4,480
Banco Morales Reservoir		-	140	140	140	140	140
New Supplies from WMS		8,368	10,003	14,835	16,169	17,429	18,613
Balance After WMS		17,358	18,296	22,832	24,263	25,621	26,906
Management Supply Factor		1.49	1.50	1.62	1.66	1.70	1.74

Brownsville Irrigation District		2030	2040	2050	2060	2070	2080
Brownsville – Contract Demand	Municipal	1,200	1,200	1,200	1,200	1,200	1,200
County-Other, Cameron – Contract Demand	Municipal	334	334	334	334	334	334
Hidalgo County WID 3 – Contract Demand	Wholesale Water Provider	2,000	2,000	2,000	2,000	2,000	2,000
Irrigation, Cameron – Contract Demand	Irrigation	31,949	31,949	31,949	31,949	31,949	31,949
WWP Demand		35,483	35,483	35,483	35,483	35,483	35,483
Brownsville – Sale/Transfer	Municipal	1,200	1,200	1,200	1,200	1,200	1,200
County-Other, Cameron – Sale/Transfer	Municipal	227	227	227	227	227	227
Hidalgo County WID 3 – Sale/Transfer	Wholesale Water Provider	2,000	2,000	2,000	2,000	2,000	2,000
Irrigation, Cameron – Sale/Transfer	Irrigation	8,664	8,658	8,651	8,636	8,641	8,590
WWP Supplies		12,091	12,085	12,078	12,063	12,068	12,017
Brownsville	Municipal	-	-	-	-	-	-
County-Other, Cameron	Municipal	(107)	(107)	(107)	(107)	(107)	(107)
Hidalgo County WID 3	Wholesale Water Provider	-	-	-	-	-	-
Irrigation, Cameron	Irrigation	(23,285)	(23,291)	(23,298)	(23,313)	(23,308)	(23,359)
WWP Need/Surplus		(23,392)	(23,398)	(23,405)	(23,420)	(23,415)	(23,466)
Irrigation District Conservation		608	1,216	1,823	2,431	3,039	3,647
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
New Supplies from WMS		608	1,266	1,873	2,481	3,089	3,697
Balance After WMS		(22,784)	(22,132)	(21,532)	(20,939)	(20,326)	(19,769)
Management Supply Factor		0.36	0.38	0.39	0.41	0.43	0.44

Cameron County Irrigation District No. 2		2030	2040	2050	2060	2070	2080
Cameron County Other – Contract Demand	Municipal	750	750	750	750	750	750
East Rio Hondo WSC – Contract Demand	Municipal	5,521	5,521	5,521	5,521	5,521	5,521
Cameron County Irrigation – Contract Demand	Irrigation	151,536	151,536	151,536	151,536	151,536	151,536
Cameron County Manufacturing – Contract Demand	Manufacturing	192	192	192	192	192	192

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Rio Hondo – Contract Demand	Municipal	771	771	771	771	771	771
San Benito – Contract Demand	Municipal	7,032	7,032	7,032	7,032	7,032	7,032
WWP Demand		165,802	165,802	165,802	165,802	165,802	165,802
Cameron County Other – Sale/Transfer	Municipal	600	600	600	600	600	600
East Rio Hondo WSC – Sale/Transfer	Municipal	4,417	4,417	3,617	3,617	3,617	3,617
Cameron County Irrigation – Sale/Transfer	Irrigation	48,349	48,313	48,276	48,191	48,070	47,937
Cameron County Manufacturing – Sale/Transfer	Manufacturing	154	154	154	154	154	154
Rio Hondo – Sale/Transfer	Municipal	617	617	617	617	617	617
San Benito – Sale/Transfer	Municipal	5,626	5,626	5,626	5,626	5,626	5,626
WWP Supplies		59,763	59,727	58,890	58,805	58,684	58,551
Cameron County Other	Municipal	(150)	(150)	(150)	(150)	(150)	(150)
East Rio Hondo WSC	Municipal	(1,104)	(1,104)	(1,904)	(1,904)	(1,904)	(1,904)
Cameron County Irrigation	Irrigation	(103,187)	(103,223)	(103,260)	(103,345)	(103,466)	(103,599)
Cameron County Manufacturing	Manufacturing	(38)	(38)	(38)	(38)	(38)	(38)
Rio Hondo	Municipal	(154)	(154)	(154)	(154)	(154)	(154)
San Benito	Municipal	(1,406)	(1,406)	(1,406)	(1,406)	(1,406)	(1,406)
WWP Need/Surplus		(106,039)	(106,075)	(106,912)	(106,997)	(107,118)	(107,251)
Irrigation District Conservation		1,248	2,497	3,745	4,994	6,242	7,491
Conversion/Purchase of Surface Water Rights		1,423	1,573	1,573	1,573	1,573	1,573
New Supplies from WMS		2,671	4,070	5,318	6,567	7,815	9,064
Balance After WMS		(103,368)	(102,005)	(101,594)	(100,430)	(99,303)	(98,187)
Management Supply Factor		0.38	0.38	0.39	0.39	0.40	0.41

Cameron County Irrigation District No. 3 - La Feria		2030	2040	2050	2060	2070	2080
Cameron County Other – Contract Demand	Municipal	900	900	900	900	900	900
Cameron County Irrigation – Contract Demand	Irrigation	34,220	34,194	34,169	34,109	34,023	33,928
La Feria – Contract Demand	Municipal	3,000	3,000	3,000	3,000	3,000	3,000
Santa Rosa – Contract Demand	Municipal	900	900	900	900	900	900
Sebastian MUD – Contract Demand	Municipal	300	300	300	300	300	300
Siesta Shores WCID – Contract Demand	Municipal	216	216	216	216	216	216
WWP Demand		39,536	39,510	39,485	39,425	39,339	39,244
Cameron County Other	Municipal	612	612	612	612	612	612
Cameron County Irrigation	Irrigation	23,270	23,252	23,235	23,194	23,136	23,071
La Feria	Municipal	1,300	1,400	1,500	1,700	2,000	2,200

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Santa Rosa	Municipal	612	612	612	612	612	612
Sebastian MUD	Municipal	204	204	204	204	204	204
Siesta Shores WCID	Municipal	147	147	147	147	147	147
WWP Supplies		26,145	26,227	26,310	26,469	26,711	26,846
Cameron County Other	Municipal	(288)	(288)	(288)	(288)	(288)	(288)
Cameron County Irrigation	Irrigation	(10,950)	(10,942)	(10,934)	(10,915)	(10,887)	(10,857)
La Feria	Municipal	(1,700)	(1,600)	(1,500)	(1,300)	(1,000)	(800)
Santa Rosa	Municipal	(288)	(288)	(288)	(288)	(288)	(288)
Sebastian MUD	Municipal	(96)	(96)	(96)	(96)	(96)	(96)
Siesta Shores WCID	Municipal	(69)	(69)	(69)	(69)	(69)	(69)
WWP Need/Surplus		(13,391)	(13,283)	(13,175)	(12,956)	(12,628)	(12,398)
Irrigation District Conservation		1,455	2,911	4,366	5,822	7,277	8,733
Conversion/Purchase of Surface Water Rights		1,000	1,200	1,200	1,200	1,200	1,200
New Supplies from WMS		2,455	4,111	5,566	7,022	8,477	9,933
Balance After WMS		(10,936)	(9,172)	(7,609)	(5,934)	(4,151)	(2,465)
Management Supply Factor		0.72	0.77	0.81	0.85	0.89	0.94

Cameron County ID No. 6		2030	2040	2050	2060	2070	2080
Brownsville PUB – Contract Demand	Municipal	300	300	300	300	300	300
Cameron County Irrigation District 10	Wholesale Water Provider	25,414	25,414	25,414	25,414	25,414	25,414
Cameron County Irrigation – Contract Demand	Irrigation	49,565	49,565	49,565	49,565	49,565	49,565
Los Fresnos – Contract Demand	Municipal	1,051	1,051	1,051	1,051	1,051	1,051
Cameron County Manufacturing – Contract Demand	Manufacturing	20	20	20	20	20	20
Olmito WSC – Contract Demand	Municipal	1,885	1,885	1,885	1,885	1,885	1,885
WWP Demand		78,235	78,235	78,235	78,235	78,235	78,235
Brownsville PUB	Municipal	255	255	255	255	255	255
Cameron County Irrigation District 10	Wholesale Water Provider	10,210	10,203	10,196	10,178	10,153	10,126
Cameron County Irrigation	Irrigation	16,802	16,789	16,776	16,747	16,705	16,658
Los Fresnos	Municipal	893	893	893	893	893	893
Cameron County Manufacturing	Manufacturing	14	14	14	14	14	14
Olmito WSC	Municipal	1,665	1,665	1,665	1,665	1,665	1,665
WWP Supplies		29,839	29,819	29,799	29,752	29,685	29,611
Brownsville PUB	Municipal	(45)	(45)	(45)	(45)	(45)	(45)
Cameron County Irrigation District 10	Wholesale Water Provider	(15,204)	(15,211)	(15,218)	(15,236)	(15,261)	(15,288)

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Cameron County Irrigation	Irrigation	(32,763)	(32,776)	(32,789)	(32,818)	(32,860)	(32,907)
Los Fresnos	Municipal	(158)	(158)	(158)	(158)	(158)	(158)
Cameron County Manufacturing	Manufacturing	(6)	(6)	(6)	(6)	(6)	(6)
Olmito WSC	Municipal	(220)	(220)	(220)	(220)	(220)	(220)
WWP Need/Surplus		(48,396)	(48,416)	(48,436)	(48,483)	(48,550)	(48,624)
Irrigation District Conservation		272	543	815	1,086	1,358	1,629
Conversion/Purchase of Surface Water Rights		730	980	980	980	980	980
New Supplies from WMS		1,002	1,523	1,795	2,066	2,338	2,609
Balance After WMS		(47,394)	(46,893)	(46,641)	(46,417)	(46,212)	(46,015)
Management Supply Factor		0.39	0.40	0.40	0.41	0.41	0.41

Cameron County ID No. 10		2030	2040	2050	2060	2070	2080
Bayvirew Irrigation District 11	Wholesale Water Provider	17,161	17,161	17,161	17,161	17,161	17,161
Cameron County Irrigation – Contract Demand	Irrigation	7,953	7,953	7,953	7,953	7,953	7,953
WWP Demand		25,114	25,114	25,114	25,114	25,114	25,114
Bayvirew Irrigation District 11	Wholesale Water Provider	6,954	6,949	6,944	6,932	6,915	6,896
Cameron County Irrigation	Irrigation	2,157	2,155	2,153	2,150	2,144	2,138
WWP Supplies		9,111	9,104	9,097	9,082	9,059	9,034
Bayvirew Irrigation District 11	Wholesale Water Provider	(10,207)	(10,212)	(10,217)	(10,229)	(10,246)	(10,265)
Cameron County Irrigation	Irrigation	(5,796)	(5,798)	(5,800)	(5,803)	(5,809)	(5,815)
WWP Need/Surplus		(16,003)	(16,010)	(16,017)	(16,032)	(16,055)	(16,080)
Irrigation District Conservation		372	744	1,115	1,487	1,859	2,231
New Supplies from WMS		372	744	1,115	1,487	1,859	2,231
Balance After WMS		(15,631)	(15,266)	(14,902)	(14,545)	(14,196)	(13,849)
Management Supply Factor		0.38	0.39	0.41	0.42	0.43	0.45

Delta Lake ID		2030	2040	2050	2060	2070	2080
Willacy County-Other - Contract Demand	Municipal	100	100	100	100	100	100
Engelman Irrigation District	Wholesale Water Provider	6,872	6,866	6,861	6,849	6,832	6,813
Hidalgo County Irrigation – Contract Demand	Irrigation	39,655	39,625	39,595	39,525	39,426	39,316
Willacy County Irrigation – Contract Demand	Irrigation	30,283	30,260	30,238	30,184	30,108	30,025
Willacy County Livestock – Contract Demand	Livestock	235	235	140	140	140	140
Lyford - Contract Demand	Municipal	980	980	980	980	980	980
North Alamo WSC - Contract Demand	Municipal	8,727	8,727	8,727	8,727	8,727	8,727

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Raymondville - Contract Demand	Municipal	5,894	5,894	5,894	5,894	5,894	5,894
Valley Acres Irrigation District	Wholesale Water Provider	6,510	6,505	6,500	6,489	6,472	6,455
WWP Demand		99,256	99,192	99,035	98,888	98,679	98,450
Willacy County-Other	Municipal	65	65	65	65	65	65
Engelman Irrigation District	Wholesale Water Provider	6,872	6,866	6,861	6,849	6,832	6,813
Hidalgo County Irrigation	Irrigation	25,765	25,746	25,726	25,681	25,617	25,546
Willacy County Irrigation	Irrigation	19,684	19,669	19,654	19,620	19,570	19,516
Willacy County Livestock	Livestock	235	235	140	140	140	140
Lyford	Municipal	637	637	637	637	637	637
North Alamo WSC	Municipal	5,673	5,673	5,673	5,673	5,673	5,673
Raymondville	Municipal	3,744	3,744	3,743	3,743	3,743	3,743
Valley Acres Irrigation District	Wholesale Water Provider	6,510	6,505	6,500	6,489	6,472	6,455
WWP Supplies		69,185	69,140	68,999	68,897	68,749	68,588
Willacy County-Other	Municipal	(35)	(35)	(35)	(35)	(35)	(35)
Engelman Irrigation District	Wholesale Water Provider	-	-	-	-	-	-
Hidalgo County Irrigation	Irrigation	(13,890)	(13,879)	(13,869)	(13,844)	(13,809)	(13,770)
Willacy County Irrigation	Irrigation	(10,599)	(10,591)	(10,584)	(10,564)	(10,538)	(10,509)
Willacy County Livestock	Livestock	-	-	-	-	-	-
Lyford	Municipal	(343)	(343)	(343)	(343)	(343)	(343)
North Alamo WSC	Municipal	(3,054)	(3,054)	(3,054)	(3,054)	(3,054)	(3,054)
Raymondville	Municipal	(2,150)	(2,150)	(2,151)	(2,151)	(2,151)	(2,151)
Valley Acres Irrigation District	Wholesale Water Provider	-	-	-	-	-	-
WWP Need/Surplus		(30,071)	(30,052)	(30,036)	(29,991)	(29,930)	(29,862)
Irrigation District Conservation		4,222	8,444	12,666	16,888	21,110	25,331
Conversion/Purchase of Surface Water Rights		24	4,414	4,424	4,444	4,463	4,481
New Supplies from WMS		4,246	12,858	17,090	21,332	25,573	29,812
Balance After WMS		(25,825)	(17,194)	(12,946)	(8,659)	(4,357)	(50)
Management Supply Factor		0.74	0.83	0.87	0.91	0.96	1.00
Donna Irrigation District-Hidalgo County #1		2030	2040	2050	2060	2070	2080
Hidalgo County-Other	Municipal	2,690	2,690	2,690	2,690	2,690	2,690
Donna - Contract Demand	Municipal	4,381	4,381	4,381	4,381	4,380	4,380
Hidalgo County Irrigation – Contract Demand	Irrigation	37,513	37,484	37,456	37,390	37,296	37,193
WWP Demand		44,584	44,555	44,527	44,461	44,366	44,263

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Hidalgo County-Other	Municipal	1,910	1,910	1,910	1,910	1,910	1,910
Donna	Municipal	3,111	3,111	3,111	3,110	3,110	3,110
Hidalgo County Irrigation	Irrigation	26,634	26,614	26,594	26,547	26,480	26,407
WWP Supplies		31,655	31,635	31,615	31,567	31,500	31,427
Hidalgo County-Other	Municipal	(780)	(780)	(780)	(780)	(780)	(780)
Donna	Municipal	(1,270)	(1,270)	(1,270)	(1,271)	(1,270)	(1,270)
Hidalgo County Irrigation	Irrigation	(10,879)	(10,870)	(10,862)	(10,843)	(10,816)	(10,786)
WWP Need/Surplus		(12,929)	(12,920)	(12,912)	(12,894)	(12,866)	(12,836)
Irrigation District Conservation		1,412	2,824	4,235	5,647	7,059	8,471
Conversion/Purchase of Surface Water Rights		950	2,240	2,240	2,240	2,240	2,240
New Supplies from WMS		2,362	5,064	6,475	7,887	9,299	10,711
Balance After WMS		(10,567)	(7,856)	(6,437)	(5,007)	(3,567)	(2,125)
Management Supply Factor		0.76	0.82	0.86	0.89	0.92	0.95

Eagle Pass		2030	2040	2050	2060	2070	2080
Population		58,692	62,688	65,889	68,762	71,614	74,461
WUG Demand	Municipal	9,579	10,192	10,713	11,180	11,644	12,107
WWP Supplies		10,621	10,621	10,621	10,621	10,621	10,621
WWP Need/Surplus		1,042	429	(92)	(559)	(1,023)	(1,486)
Advanced Municipal Conservation		960	1,450	1,982	2,523	3,077	3,641
Drought Management		217	232	244	255	265	276
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Brackish Groundwater Desalination		5,210	5,210	5,210	5,210	5,210	5,210
New Supplies from WMS		6,387	6,942	7,486	8,038	8,602	9,177
Balance After WMS		7,429	7,371	7,394	7,479	7,579	7,691
Management Supply Factor		1.78	1.72	1.69	1.67	1.65	1.64

East Rio Hondo WSC		2030	2040	2050	2060	2070	2080
Population		26,908	31,911	37,034	40,909	43,001	45,200
WUG Demand	Municipal	3,636	4,290	4,978	5,499	5,781	6,076
Cameron County Other – Contract Demand	Municipal	182	182	182	182	182	182
Military Highway WSC - Contract Demand	Municipal	33	33	33	33	33	33
WWP Demand		3,851	4,505	5,193	5,714	5,996	6,291
WUG Supply	Municipal	5,660	5,660	4,860	4,860	4,860	4,860

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Cameron County Other	Municipal	182	182	182	182	182	182
Military Highway WSC	Municipal	33	33	33	33	33	33
WWP Supplies		5,875	5,875	5,075	5,075	5,075	5,075
WUG Needs	Municipal	2,239	1,585	97	(424)	(706)	(1,001)
Cameron County Other	Municipal	-	-	-	-	-	-
Military Highway WSC	Municipal	-	-	-	-	-	-
WWP Need/Surplus		2,024	1,370	(118)	(639)	(921)	(1,216)
Advanced Municipal Conservation		182	397	684	995	1,282	1,585
Irrigation District Conservation		96	192	288	381	474	570
Drought Management		102	121	140	155	163	171
Conversion/Purchase of Surface Water Rights		560	560	560	560	560	560
FM 2925 Transmission Line		-	30	30	30	30	30
North Cameron Regional WTP Wellfield Expansion		1,290	1,225	1,371	1,389	1,389	1,389
Brackish Desalination Wellfield and RO at NRWTP and MASWTP		-	2,766	3,096	3,136	3,136	3,136
Expansion of MASWTP		-	988	1,106	1,120	1,120	1,120
New Supplies from WMS		2,230	6,279	7,275	7,766	8,154	8,561
Balance After WMS		4,254	7,649	7,157	7,127	7,233	7,345
Management Supply Factor		2.10	2.70	2.38	2.25	2.21	2.17

Edinburg		2030	2040	2050	2060	2070	2080
Population		85,768	93,195	97,911	99,436	100,966	102,501
WUG Demand	Municipal	11,209	12,114	12,727	12,925	13,124	13,323
WWP Supplies		10,758	10,758	10,758	10,758	10,758	10,758
WWP Need/Surplus		(451)	(1,356)	(1,969)	(2,167)	(2,366)	(2,565)
Advanced Municipal Conservation		564	1,122	1,760	2,344	2,911	3,472
Irrigation District Conservation		443	888	1,330	1,774	2,218	2,662
Drought Management		431	469	492	500	508	515
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Reuse Water for Cooling Tower and Landscaping Use		-	3,920	3,920	3,920	3,920	3,920
New Supplies from WMS		1,438	6,449	7,552	8,588	9,607	10,619
Balance After WMS		987	5,093	5,583	6,421	7,241	8,054
Management Supply Factor		1.09	1.42	1.44	1.50	1.55	1.60

Harlingen		2030	2040	2050	2060	2070	2080
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Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Population		85,744	87,959	88,766	88,532	88,296	88,057
WUG Demand	Municipal	14,830	15,149	15,288	15,248	15,208	15,166
East Rio Hondo WSC – Contract Demand	Municipal	336	336	336	224	224	224
Cameron County Manufacturing – Contract Demand	Irrigation	112	112	112	112	112	113
Cameron County Irrigation – Contract Demand	Manufacturing	150	150	150	150	150	150
WWP Demand		15,428	15,747	15,886	15,734	15,694	15,653
WUG Supply	Municipal	20,958	20,957	20,957	20,960	20,960	20,959
East Rio Hondo WSC	Municipal	336	336	336	224	224	224
Cameron County Manufacturing	Irrigation	25	25	25	25	25	25
Cameron County Irrigation	Manufacturing	150	150	150	150	150	150
WWP Supplies		21,469	21,468	21,468	21,359	21,359	21,358
WUG Need	Municipal	6,128	5,808	5,669	5,712	5,752	5,793
East Rio Hondo WSC	Municipal	-	-	-	-	-	-
Cameron County Manufacturing	Irrigation	(87)	(87)	(87)	(87)	(87)	(88)
Cameron County Irrigation	Manufacturing	-	-	-	-	-	-
WWP Need/Surplus		6,041	5,721	5,582	5,625	5,665	5,705
Advanced Municipal Conservation		1,480	2,134	2,809	3,427	4,012	4,563
Irrigation District Conservation		199	400	599	801	1,000	1,199
Drought Management		346	355	358	357	356	355
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
New Supplies from WMS		2,025	2,939	3,816	4,635	5,418	6,167
Balance After WMS		8,066	8,660	9,398	10,260	11,083	11,872
Management Supply Factor		1.52	1.55	1.59	1.65	1.71	1.76

Harlingen ID No. 1		2030	2040	2050	2060	2070	2080
Combes – Contract Demand	Municipal	796	796	796	796	796	796
East Rio Hondo – Contract Demand	Municipal	345	345	345	345	345	345
Harlingen – Contract Demand	Municipal	28,737	28,737	28,737	28,737	28,737	28,737
Cameron County Irrigation – Contract Demand	Irrigation	43,959	43,926	43,893	43,815	43,705	43,584
Military Highway WSC – Contract Demand	Municipal	806	806	806	806	806	806
Palm Valley – Contract Demand	Municipal	313	313	313	313	313	313
Primera – Contract Demand	Municipal	400	400	400	400	400	400
WWP Demand		75,356	75,323	75,290	75,212	75,102	74,981
Combes	Municipal	677	677	677	677	677	677

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

East Rio Hondo	Municipal	293	293	293	293	293	293
Harlingen	Municipal	21,307	21,306	21,304	21,189	21,183	21,178
Cameron County Irrigation	Irrigation	37,365	37,337	37,309	37,243	37,149	37,046
Military Highway WSC	Municipal	606	606	606	606	606	606
Palm Valley	Municipal	266	266	266	266	266	266
Primera	Municipal	340	340	340	340	340	340
WWP Supplies		60,854	60,825	60,795	60,614	60,514	60,406
Combes	Municipal	(119)	(119)	(119)	(119)	(119)	(119)
East Rio Hondo	Municipal	(52)	(52)	(52)	(52)	(52)	(52)
Harlingen	Municipal	(7,430)	(7,431)	(7,433)	(7,548)	(7,554)	(7,559)
Cameron County Irrigation	Irrigation	(6,594)	(6,589)	(6,584)	(6,572)	(6,556)	(6,538)
Military Highway WSC	Municipal	(200)	(200)	(200)	(200)	(200)	(200)
Palm Valley	Municipal	(47)	(47)	(47)	(47)	(47)	(47)
Primera	Municipal	(60)	(60)	(60)	(60)	(60)	(60)
WWP Need/Surplus		(14,502)	(14,498)	(14,495)	(14,598)	(14,588)	(14,575)
Irrigation District Conservation		600	1,200	1,800	2,400	3,000	3,600
Conversion/Purchase of Surface Water Rights		1,745	2,098	2,204	2,284	2,372	2,421
New Supplies from WMS		2,345	3,298	4,004	4,684	5,372	6,021
Balance After WMS		(12,157)	(11,200)	(10,491)	(9,914)	(9,216)	(8,554)
Management Supply Factor		0.84	0.85	0.86	0.87	0.88	0.89

Harlingen and Cameron County Irrigation District No. 9		2030	2040	2050	2060	2070	2080
Edcouch – Contract Demand	Municipal	465	465	465	465	465	464
Elsa – Contract Demand	Municipal	1,089	1,089	1,089	1,088	1,088	1,087
Irrigation, Cameron – Contract Demand	Irrigation	5,082	5,078	5,074	5,065	5,052	5,038
Irrigation, Hidalgo – Contract Demand	Irrigation	63,588	63,540	63,492	63,381	63,221	63,046
La Villa – Contract Demand	Municipal	362	362	362	362	362	362
Mercedes – Contract Demand	Municipal	3,239	3,239	3,239	3,239	3,239	3,239
North Alamo WSC – Contract Demand	Municipal	5,613	5,613	5,613	5,613	5,613	5,613
Weslaco – Contract Demand	Municipal	7,976	7,976	7,976	7,976	7,976	7,976
WWP Demand		87,414	87,362	87,310	87,189	87,016	86,825
Edcouch	Municipal	326	326	325	325	325	325
Elsa	Municipal	763	762	762	762	761	761
Irrigation, Cameron	Irrigation	3,557	3,554	3,552	3,545	3,537	3,527

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Irrigation, Hidalgo	Irrigation	44,512	44,478	44,445	44,366	44,255	44,132
La Villa	Municipal	254	254	254	254	254	254
Mercedes	Municipal	2,267	2,267	2,267	2,267	2,267	2,267
North Alamo WSC	Municipal	3,929	3,929	3,929	3,929	3,929	3,929
Weslaco	Municipal	5,583	5,583	5,583	5,583	5,583	5,583
WWP Supplies		61,191	61,153	61,117	61,031	60,911	60,778
Edcouch	Municipal	(139)	(139)	(140)	(140)	(140)	(139)
Elsa	Municipal	(326)	(327)	(327)	(326)	(327)	(326)
Irrigation, Cameron	Irrigation	(1,525)	(1,524)	(1,522)	(1,520)	(1,515)	(1,511)
Irrigation, Hidalgo	Irrigation	(19,076)	(19,062)	(19,047)	(19,015)	(18,966)	(18,914)
La Villa	Municipal	(108)	(108)	(108)	(108)	(108)	(108)
Mercedes	Municipal	(972)	(972)	(972)	(972)	(972)	(972)
North Alamo WSC	Municipal	(1,684)	(1,684)	(1,684)	(1,684)	(1,684)	(1,684)
Weslaco	Municipal	(2,393)	(2,393)	(2,393)	(2,393)	(2,393)	(2,393)
WWP Need/Surplus		(26,223)	(26,209)	(26,193)	(26,158)	(26,105)	(26,047)
Irrigation District Conservation		2,915	5,830	8,745	11,661	14,576	17,491
Conversion/Purchase of Surface Water Rights		2,169	2,677	4,368	4,373	4,378	4,383
New Supplies from WMS		5,084	8,507	13,113	16,034	18,954	21,874
Balance After WMS		(21,139)	(17,702)	(13,080)	(10,124)	(7,151)	(4,173)
Management Supply Factor		0.76	0.80	0.85	0.88	0.92	0.95

Hidalgo County Irrigation District No. 1		2030	2040	2050	2060	2070	2080
Edinburg – Contract Demand	Municipal	10,847	10,847	10,847	10,847	10,847	10,847
Hidalgo County Irrigation District 13	Wholesale Water Provider	1,738	1,736	1,735	1,732	1,728	1,723
Hidalgo County MUD 1 – Contract Demand	Municipal	813	813	813	812	811	811
Hidalgo County Irrigation – Contract Demand	Irrigation	29,543	29,520	29,498	29,446	29,372	29,291
McAllen – Contract Demand	Municipal	4,000	4,000	4,000	4,000	4,000	4,000
North Alamo WSC - Contract Demand	Municipal	1,400	1,400	1,400	1,400	1,400	1,400
Santa Cruz Irrigation District 15	Wholesale Water Provider	30,728	30,706	30,683	30,631	30,556	30,474
Sharyland WSC – Contract Demand	Municipal	9,881	9,881	9,881	9,881	9,881	9,881
Steam-Electric Power, Hidalgo – Contract Demand	Steam Electric Power	2,453	2,453	2,453	2,453	2,453	2,453
WWP Demand		91,403	91,356	91,310	91,202	91,048	90,880
Edinburg	Municipal	7,701	7,701	7,701	7,701	7,701	7,701
Hidalgo County Irrigation District 13	Wholesale Water Provider	1,738	1,736	1,735	1,732	1,728	1,723

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Hidalgo County MUD 1	Municipal	577	577	577	577	576	576
Irrigation, Hidalgo	Irrigation	20,975	20,960	20,944	20,907	20,854	20,796
McAllen	Municipal	2,840	2,840	2,840	2,840	2,840	2,840
North Alamo WSC	Municipal	994	994	994	994	994	994
Santa Cruz Irrigation District 15	Wholesale Water Provider	30,728	30,706	30,683	30,631	30,556	30,474
Sharyland WSC	Municipal	7,016	7,016	7,016	7,016	7,016	7,016
Steam-Electric Power, Hidalgo	Steam Electric Power	2,453	2,453	2,453	2,453	2,453	2,453
WWP Supplies		75,022	74,983	74,943	74,851	74,718	74,573
Edinburg	Municipal	(3,146)	(3,146)	(3,146)	(3,146)	(3,146)	(3,146)
Hidalgo County Irrigation District 13	Wholesale Water Provider	-	-	-	-	-	-
Hidalgo County MUD 1	Municipal	(236)	(236)	(236)	(235)	(235)	(235)
Irrigation, Hidalgo	Irrigation	(8,568)	(8,560)	(8,554)	(8,539)	(8,518)	(8,495)
McAllen	Municipal	(1,160)	(1,160)	(1,160)	(1,160)	(1,160)	(1,160)
North Alamo WSC	Municipal	(406)	(406)	(406)	(406)	(406)	(406)
Santa Cruz Irrigation District 15	Wholesale Water Provider	-	-	-	-	-	-
Sharyland WSC	Municipal	(2,865)	(2,865)	(2,865)	(2,865)	(2,865)	(2,865)
Steam-Electric Power, Hidalgo	Steam Electric Power	-	-	-	-	-	-
WWP Need/Surplus		(16,381)	(16,373)	(16,367)	(16,351)	(16,330)	(16,307)
Irrigation District Conservation		2,886	5,772	8,658	11,543	14,429	17,315
Conversion/Purchase of Surface Water Rights		913	1,113	1,113	1,113	1,113	1,113
New Supplies from WMS		3,799	6,885	9,771	12,656	15,542	18,428
Balance After WMS		(12,582)	(9,488)	(6,596)	(3,695)	(788)	2,121
Management Supply Factor		0.86	0.90	0.93	0.96	0.99	1.02
Hidalgo County Irrigation District No. 2		2030	2040	2050	2060	2070	2080
Alamo – Contract Demand	Municipal	4,175	4,175	4,175	4,175	4,175	4,175
Edinburg – Contract Demand	Municipal	4,003	4,003	4,003	4,003	4,003	4,003
Hidalgo County WID 3	Wholesale Water Provider	220	220	220	219	219	218
Irrigation, Hidalgo – Contract Demand	Irrigation	52,841	52,801	52,762	52,669	52,536	52,391
McAllen – Contract Demand	Municipal	22,450	22,450	22,450	22,450	22,450	22,450
North Alamo WSC - Contract Demand	Municipal	3,491	3,490	3,489	3,487	3,484	3,479
Pharr – Contract Demand	Municipal	6,691	6,691	6,691	6,691	6,691	6,691
San Juan – Contract Demand	Municipal	2,533	2,533	2,533	2,533	2,533	2,533
WWP Demand		96,404	96,363	96,323	96,227	96,091	95,940

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Alamo	Municipal	3,131	3,131	3,131	3,131	3,131	3,131
Edinburg	Municipal	3,002	3,002	3,002	3,002	3,002	3,002
Hidalgo County WID 3	Wholesale Water Provider	165	165	165	165	164	164
Irrigation, Hidalgo	Irrigation	39,631	39,601	39,571	39,502	39,402	39,293
McAllen	Municipal	16,838	16,838	16,838	16,838	16,838	16,838
North Alamo WSC	Municipal	2,618	2,618	2,617	2,615	2,613	2,609
Pharr	Municipal	5,018	5,018	5,018	5,018	5,018	5,018
San Juan	Municipal	1,900	1,900	1,900	1,900	1,900	1,900
WWP Supplies		72,303	72,273	72,242	72,171	72,068	71,955
Alamo	Municipal	(1,044)	(1,044)	(1,044)	(1,044)	(1,044)	(1,044)
Edinburg	Municipal	(1,001)	(1,001)	(1,001)	(1,001)	(1,001)	(1,001)
Hidalgo County WID 3	Wholesale Water Provider	(55)	(55)	(55)	(54)	(55)	(54)
Irrigation, Hidalgo	Irrigation	(13,210)	(13,200)	(13,191)	(13,167)	(13,134)	(13,098)
McAllen	Municipal	(5,612)	(5,612)	(5,612)	(5,612)	(5,612)	(5,612)
North Alamo WSC	Municipal	(873)	(872)	(872)	(872)	(871)	(870)
Pharr	Municipal	(1,673)	(1,673)	(1,673)	(1,673)	(1,673)	(1,673)
San Juan	Municipal	(633)	(633)	(633)	(633)	(633)	(633)
WWP Need/Surplus		(24,101)	(24,090)	(24,081)	(24,056)	(24,023)	(23,985)
Irrigation District Conservation		2,588	5,176	7,763	10,351	12,939	15,527
Conversion/Purchase of Surface Water Rights		1,489	1,589	1,589	1,589	1,589	1,589
New Supplies from WMS		4,077	6,765	9,352	11,940	14,528	17,116
Balance After WMS		(20,024)	(17,325)	(14,729)	(12,116)	(9,495)	(6,869)
Management Supply Factor		0.79	0.82	0.85	0.87	0.90	0.93
Hidalgo County Irrigation District No. 6		2030	2040	2050	2060	2070	2080
Agua SUD - Contract Demand	Municipal	8,329	8,329	8,329	8,329	8,329	8,329
Irrigation, Hidalgo – Contract Demand	Irrigation	13,126	13,116	13,106	13,083	13,050	13,014
Steam-Electric Power, Hidalgo – Contract Demand	Steam Electric Power	3,423	3,423	3,423	3,423	3,423	3,423
Total		24,878	24,868	24,858	24,835	24,802	24,766
Agua SUD	Municipal	5,914	5,914	5,914	5,914	5,914	5,914
Irrigation, Hidalgo	Irrigation	9,319	9,312	9,305	9,289	9,266	9,240
Steam-Electric Power, Hidalgo	Steam Electric Power	3,423	3,423	3,423	3,423	3,423	3,423
WWP Supplies		18,656	18,649	18,642	18,626	18,603	18,577
Agua SUD	Municipal	(2,415)	(2,415)	(2,415)	(2,415)	(2,415)	(2,415)

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Irrigation, Hidalgo	Irrigation	(3,807)	(3,804)	(3,801)	(3,794)	(3,784)	(3,774)
Steam-Electric Power, Hidalgo	Steam Electric Power	-	-	-	-	-	-
WWP Need/Surplus		(6,222)	(6,219)	(6,216)	(6,209)	(6,199)	(6,189)
Irrigation District Conservation		679	1,359	2,038	2,718	3,397	4,076
Service Area Expansion		-	1,120	1,120	1,120	1,120	1,120
Conversion/Purchase of Surface Water Rights		-	870	869	868	867	866
New Supplies from WMS		679	3,349	4,027	4,706	5,384	6,062
Balance After WMS		(5,543)	(2,870)	(2,189)	(1,503)	(815)	(127)
Management Supply Factor		0.78	0.88	0.91	0.94	0.97	0.99

Hidalgo County Irrigation District No. 16		2030	2040	2050	2060	2070	2080
Agua SUD – Contract Demand	Municipal	4,205	4,205	4,205	4,205	4,205	4,205
Irrigation, Hidalgo – Contract Demand	Irrigation	12,263	12,253	12,244	12,223	12,192	12,158
La Joya – Contract Demand	Municipal	513	513	513	513	513	513
Livestock, Hidalgo – Contract Demand	Livestock	100	100	100	100	100	100
Mining, Hidalgo – Contract Demand	Mining	80	80	80	80	79	79
WWP Demand		17,161	17,151	17,142	17,121	17,089	17,055
Agua SUD	Municipal	2,986	2,986	2,986	2,986	2,986	2,986
Irrigation, Hidalgo	Irrigation	8,707	8,700	8,693	8,678	8,656	8,632
La Joya	Municipal	364	364	364	364	364	364
Livestock, Hidalgo	Livestock	71	71	71	71	71	71
Mining, Hidalgo	Mining	57	57	57	56	56	56
WWP Supplies		12,185	12,178	12,171	12,155	12,133	12,109
Agua SUD	Municipal	(1,219)	(1,219)	(1,219)	(1,219)	(1,219)	(1,219)
Irrigation, Hidalgo	Irrigation	(3,556)	(3,553)	(3,551)	(3,545)	(3,536)	(3,526)
La Joya	Municipal	(149)	(149)	(149)	(149)	(149)	(149)
Livestock, Hidalgo	Livestock	(29)	(29)	(29)	(29)	(29)	(29)
Mining, Hidalgo	Mining	(23)	(23)	(23)	(24)	(23)	(23)
WWP Need/Surplus		(4,976)	(4,973)	(4,971)	(4,966)	(4,956)	(4,946)
Irrigation District Conservation		543	1,087	1,630	2,174	2,717	3,260
Conversion/Purchase of Surface Water Rights		311	408	487	487	487	487
New Supplies from WMS		854	1,495	2,117	2,661	3,204	3,747
Balance After WMS		(4,122)	(3,478)	(2,854)	(2,305)	(1,752)	(1,199)
Management Supply Factor		0.76	0.80	0.83	0.87	0.90	0.93

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Hidalgo County Water Improvement District (WID) No. 3		2030	2040	2050	2060	2070	2080
Irrigation, Hidalgo – Contract Demand	Irrigation	3,576	3,573	3,571	3,564	3,555	3,546
McAllen - Contract Demand	Municipal	17,209	17,209	17,209	17,209	17,209	17,209
Mining, Hidalgo – Contract Demand	Mining	40	40	40	40	40	40
WWP Demand		20,825	20,822	20,820	20,813	20,804	20,795
Irrigation, Hidalgo		3,235	3,233	3,230	3,225	3,216	3,208
McAllen		15,488	15,488	15,488	15,488	15,488	15,488
Mining, Hidalgo		36	36	36	36	36	36
WWP Supplies		18,759	18,757	18,754	18,749	18,740	18,732
Irrigation, Hidalgo		(341)	(340)	(341)	(339)	(339)	(338)
McAllen		(1,721)	(1,721)	(1,721)	(1,721)	(1,721)	(1,721)
Mining, Hidalgo		(4)	(4)	(4)	(4)	(4)	(4)
WWP Need/Surplus		(2,066)	(2,065)	(2,066)	(2,064)	(2,064)	(2,063)
Conversion/Purchase of Surface Water Rights		-	100	100	100	100	100
New Supplies from WMS		-	100	100	100	100	100
Balance After WMS		(2,066)	(1,965)	(1,966)	(1,964)	(1,964)	(1,963)
Management Supply Factor		0.90	0.91	0.91	0.91	0.91	0.91

Laguna Madre Water District		2030	2040	2050	2060	2070	2080
Population		11,100	11,384	11,484	11,445	11,405	11,362
WUG Demand	Municipal	4,638	4,745	4,787	4,771	4,754	4,736
Manufacturing, Cameron – Contract Demand	Manufacturing	118	118	118	118	118	118
WWP Demand		4,756	4,863	4,905	4,889	4,872	4,854
WUG Supplies	Municipal	7,513	7,513	7,513	7,513	7,513	7,513
Manufacturing, Cameron	Manufacturing	118	118	118	118	118	118
WWP Supplies		7,631	7,631	7,631	7,631	7,631	7,631
WUG Needs	Municipal	2,875	2,768	2,726	2,742	2,759	2,777
Manufacturing, Cameron	Manufacturing	-	-	-	-	-	-
WWP Need/Surplus		2,875	2,768	2,726	2,742	2,759	2,777
Advanced Municipal Conservation		464	893	1,289	1,634	1,941	2,213
Drought Management		45	46	47	47	46	46
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Seawater Desalination Plant		5,600	5,600	5,600	5,600	5,600	5,600

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

New Supplies from WMS		6,109	6,589	6,986	7,331	7,637	7,909
Balance After WMS		8,984	9,357	9,712	10,073	10,396	10,686
Management Supply Factor		2.89	2.92	2.98	3.06	3.13	3.20

Laredo		2030	2040	2050	2060	2070	2080
Population		267,373	277,989	281,208	278,353	275,465	272,541
WUG Demand	Municipal	41,831	43,292	43,794	43,349	42,899	42,444
Irrigation, Webb – Contract Demand	Irrigation	1,436	1,435	1,434	1,431	1,427	1,421
Manufacturing, Webb – Contract Demand	Manufacturing	100	100	100	100	100	100
Mining, Webb – Contract Demand	Mining	66	66	66	66	66	66
Steam-Electric Power, Webb – Contract Demand	Steam Electric Power	30	30	30	30	30	30
WWP Demand		43,463	44,923	45,424	44,976	44,522	44,061
WUG Supply	Municipal	59,974	59,974	59,974	59,974	59,974	59,974
Irrigation, Webb	Irrigation	1,436	1,435	1,434	1,431	1,427	1,421
Manufacturing, Webb	Manufacturing	100	100	100	100	100	100
Mining, Webb	Mining	66	66	66	66	66	66
Steam-Electric Power, Webb	Steam Electric Power	30	30	30	30	30	30
WWP Supplies		61,606	61,605	61,604	61,601	61,597	61,591
WUG Needs	Municipal	18,143	16,682	16,180	16,625	17,075	17,530
Irrigation, Webb	Irrigation	-	-	-	-	-	-
Manufacturing, Webb	Manufacturing	-	-	-	-	-	-
Mining, Webb	Mining	-	-	-	-	-	-
Steam-Electric Power, Webb	Steam Electric Power	-	-	-	-	-	-
WWP Need/Surplus		18,143	16,682	16,180	16,625	17,075	17,530
Advanced Municipal Conservation		2,088	4,026	6,058	7,867	9,544	11,091
Drought Management		1,264	1,315	1,330	1,316	1,303	1,289
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
South Laredo WWTP Potable Reuse		-	3,360	3,360	4,480	4,480	4,480
New Supplies from WMS		3,352	8,751	10,798	13,713	15,377	16,910
Balance After WMS		21,495	25,433	26,978	30,338	32,452	34,440
Management Supply Factor		1.49	1.57	1.59	1.67	1.73	1.78

McAllen		2030	2040	2050	2060	2070	2080
Population		165,587	184,057	201,554	206,901	212,332	217,849

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

WUG Demand	Municipal	38,276	42,409	46,441	47,673	48,924	50,195
Edinburg - Contract Demand	Municipal	55	55	55	55	55	55
Hidalgo County Manufacturing – Contract Demand	Manufacturing	300	300	300	300	300	300
Hidalgo County Steam-Electric Power – Contract Demand	Steam Electric Power	3,295	3,295	3,295	3,295	3,295	3,295
WWP Demand		41,926	46,059	50,091	51,323	52,574	53,845
WUG Supply	Municipal	36,915	36,915	35,115	35,115	35,115	35,115
Edinburg	Municipal	55	55	55	55	55	55
Manufacturing, Hidalgo	Manufacturing	300	300	300	300	300	300
Steam-Electric Power, Hidalgo	Steam Electric Power	3,295	3,295	3,295	3,295	3,295	3,295
WWP Supplies		40,565	40,565	38,765	38,765	38,765	38,765
WUG Need	Municipal	(1,361)	(5,494)	(11,326)	(12,558)	(13,809)	(15,080)
Edinburg	Municipal	-	-	-	-	-	-
Manufacturing, Hidalgo	Manufacturing	-	-	-	-	-	-
Steam-Electric Power, Hidalgo	Steam Electric Power	-	-	-	-	-	-
WWP Need/Surplus		(5,011)	(9,144)	(14,976)	(16,208)	(17,459)	(18,730)
Advanced Municipal Conservation		3,832	7,958	12,485	16,293	18,337	20,375
Irrigation District Conservation		782	1,563	2,345	3,127	3,908	4,691
Drought Management		987	1,097	1,202	1,234	1,266	1,299
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Direct Potable Reuse		-	3,880	3,880	6,060	6,060	6,060
Raw Waterline Project with HCID No. 1		800	800	800	800	800	800
Brackish Groundwater Desalination		6,720	6,720	6,720	6,720	6,720	6,720
New Supplies from WMS		13,121	22,068	27,482	34,284	37,141	39,995
Balance After WMS		8,110	12,924	12,506	18,076	19,682	21,265
Management Supply Factor		1.28	1.36	1.32	1.42	1.44	1.46

Military Highway WSC		2030	2040	2050	2060	2070	2080
Population		44,216	44,633	44,795	45,466	46,151	46,852
WUG Demand	Municipal	6,530	6,560	6,585	6,684	6,784	6,887
San Juan - Contract Demand	Municipal	35	35	35	35	35	35
WWP Demand		6,565	6,595	6,620	6,719	6,819	6,922
WUG Supply	Municipal	7,542	7,542	7,542	7,542	7,542	7,542
San Juan	Municipal	35	35	35	35	35	35
WWP Supplies		7,577	7,577	7,577	7,577	7,577	7,577

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

WUG Need	Municipal	1,012	982	957	858	758	655
San Juan	Municipal	-	-	-	-	-	-
WWP Need/Surplus		1,012	982	957	858	758	655
Advanced Municipal Conservation		324	611	910	1,214	1,511	1,802
Irrigation District Conservation		6	12	18	23	29	35
Drought Management		150	152	152	155	157	159
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
New Supplies from WMS		480	825	1,130	1,442	1,747	2,046
Balance After WMS		1,492	1,807	2,087	2,300	2,505	2,701
Management Supply Factor		1.23	1.27	1.32	1.34	1.37	1.39

Mission		2030	2040	2050	2060	2070	2080
Population		88,336	93,383	96,747	99,076	101,437	103,831
WUG Demand	Municipal	18,065	19,030	19,716	20,190	20,672	21,159
WWP Supplies		18,400	18,400	18,399	18,398	18,397	18,395
WWP Need/Surplus		335	(630)	(1,317)	(1,792)	(2,275)	(2,764)
Advanced Municipal Conservation		1,808	3,559	5,292	6,162	7,026	7,889
Irrigation District Conservation		181	361	541	722	902	1,083
Drought Management		610	645	668	684	700	717
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Potable Reuse		-	3,920	3,920	3,920	3,920	3,920
Brackish Groundwater Desalination		2,688	2,688	2,688	2,688	2,688	2,688
New Supplies from WMS		5,287	11,223	13,159	14,226	15,286	16,347
Balance After WMS		5,622	10,593	11,842	12,434	13,011	13,583
Management Supply Factor		1.31	1.56	1.60	1.62	1.63	1.64

North Alamo WSC		2030	2040	2050	2060	2070	2080
Population		221,808	244,842	259,180	261,706	264,231	266,768
WUG Demand	Municipal	35,294	38,813	41,086	41,486	41,887	42,288
Port Mansfield PUD - Contract Demand	Municipal	150	150	150	150	150	150
Primera - Contract Demand	Municipal	205	205	205	205	205	205
San Juan - Contract Demand	Municipal	1,687	1,687	1,687	1,687	1,687	1,687
WWP Demand		37,336	40,855	43,128	43,528	43,929	44,330
WUG Supply	Municipal	22,407	22,589	22,608	22,606	22,604	22,600

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Port Mansfield PUD	Municipal	98	98	98	98	98	98
Primera	Municipal	205	205	205	205	205	205
San Juan	Municipal	1,687	1,687	1,687	1,687	1,687	1,687
WWP Supplies		24,397	24,579	24,598	24,596	24,594	24,590
WUG Need	Municipal	(12,887)	(16,224)	(18,478)	(18,880)	(19,283)	(19,688)
Port Mansfield PUD	Municipal	(52)	(52)	(52)	(52)	(52)	(52)
Primera	Municipal	-	-	-	-	-	-
San Juan	Municipal	-	-	-	-	-	-
WWP Need/Surplus		(12,939)	(16,276)	(18,530)	(18,932)	(19,335)	(19,740)
Advanced Municipal Conservation		3,541	5,518	7,612	9,386	11,105	12,765
Irrigation District Conservation		354	713	1,067	1,424	1,779	2,137
Drought Management		770	850	900	909	917	926
Conversion/Purchase of Surface Water Rights		6,194	10,498	12,178	12,178	12,178	12,178
Delta WTP Expansion		-	4,480	6,160	6,160	6,160	6,160
Delta Area Brackish Groundwater Desalination		2,080	1,976	2,211	2,240	2,240	2,240
New Supplies from WMS		12,939	24,035	30,128	32,297	34,379	36,406
Balance After WMS		-	7,759	11,598	13,365	15,044	16,666
Management Supply Factor		1.00	1.19	1.27	1.31	1.34	1.38

Pharr		2030	2040	2050	2060	2070	2080
Population		85,215	91,086	94,908	96,862	98,836	100,833
WUG Demand		9,135	9,698	10,105	10,313	10,523	10,736
WWP Supplies		7,332	7,388	7,429	7,449	7,470	7,492
WWP Need/Surplus		(1,803)	(2,310)	(2,676)	(2,864)	(3,053)	(3,244)
Advanced Municipal Conservation		458	883	1,377	1,633	1,666	1,700
Irrigation District Conservation		167	335	502	669	836	1,004
Drought Management		398	425	443	452	461	471
Conversion/Purchase of Surface Water Rights		947	947	947	947	947	947
Raw Water Augmentation Potable Reuse		-	3,360	3,360	3,360	3,360	3,360
Brackish Groundwater Desalination		5,600	5,600	5,600	5,600	5,600	5,600
New Supplies from WMS		7,570	11,550	12,229	12,661	12,870	13,082
Balance After WMS		5,767	9,240	9,553	9,797	9,817	9,838
Management Supply Factor		1.63	1.95	1.95	1.95	1.93	1.92

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Rio Grande City		2030	2040	2050	2060	2070	2080
Population		17,880	19,073	19,959	20,549	21,147	21,751
WUG Demand	Municipal	4,200	4,468	4,676	4,814	4,954	5,096
El Sauz - Contract Demand	Municipal	163	163	163	163	163	163
El Tanque - Contract Demand	Municipal	276	276	276	276	276	276
Rio WSC - Contract Demand	Municipal	1,053	1,053	1,053	1,053	1,052	1,052
WWP Demand		5,692	5,960	6,168	6,306	6,445	6,587
WUG Supply	Municipal	3,488	3,488	3,488	3,488	3,488	3,488
El Sauz WSC	Municipal	98	98	98	98	98	98
El Tanque WSC	Municipal	205	205	205	205	205	205
Rio WSC	Municipal	1,687	1,687	1,687	1,687	1,687	1,687
WWP Supplies		5,478	5,478	5,478	5,478	5,478	5,478
WUG Need	Municipal	(712)	(980)	(1,188)	(1,326)	(1,466)	(1,608)
El Sauz WSC	Municipal	(65)	(65)	(65)	(65)	(65)	(65)
El Tanque WSC	Municipal	(71)	(71)	(71)	(71)	(71)	(71)
Rio WSC	Municipal	634	634	634	634	635	635
WWP Need/Surplus		(214)	(482)	(690)	(828)	(967)	(1,109)
Advanced Municipal Conservation		421	840	1,260	1,649	1,860	2,072
Drought Management		48	52	54	56	57	59
Conversion/Purchase of Surface Water Rights		243	243	243	243	243	243
New Supplies from WMS		712	1,135	1,557	1,948	2,160	2,374
Balance After WMS		498	653	867	1,120	1,193	1,265
Management Supply Factor		1.09	1.11	1.14	1.18	1.19	1.19

San Benito		2030	2040	2050	2060	2070	2080
Population		25,980	26,650	26,890	26,810	26,730	26,646
WUG Demand		3,249	3,316	3,346	3,336	3,326	3,315
WWP Supplies		3,846	4,346	5,326	5,426	5,626	5,626
WWP Need/Surplus		597	1,030	1,980	2,090	2,300	2,311
Irrigation District Conservation		118	234	352	469	586	703
Drought Management		72	74	74	74	74	74
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Brackish Groundwater Blending		560	560	560	560	560	560
New Supplies from WMS		750	918	1,036	1,153	1,270	1,387

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Balance After WMS		1,347	1,948	3,016	3,243	3,570	3,698
Management Supply Factor		1.41	1.59	1.90	1.97	2.07	2.12
San Juan							
Population		23,805	24,380	24,837	25,693	26,565	27,455
WUG Demand		3,324	3,388	3,451	3,570	3,691	3,815
WWP Supplies		4,742	4,742	4,742	4,742	4,742	4,742
WWP Need/Surplus		1,418	1,354	1,291	1,172	1,051	927
Irrigation District Conservation		63	127	190	253	317	380
Drought Management		88	90	92	95	98	102
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Direct Potable Reuse		-	-	1,120	1,120	1,120	1,120
Brackish Groundwater Desalination		3,360	3,360	3,360	3,360	3,360	3,360
WTP 1 Expansion with Brackish Groundwater Desalination		1,120	1,120	1,120	1,120	1,120	1,120
New Supplies from WMS		4,631	4,747	5,932	5,998	6,065	6,132
Balance After WMS		6,049	6,101	7,223	7,170	7,116	7,059
Management Supply Factor		2.82	2.80	3.09	3.01	2.93	2.85
Sharyland WSC							
Population		88,944	97,326	102,604	103,989	105,371	106,749
WUG Demand		15,541	16,948	17,867	18,108	18,349	18,589
WWP Supplies		17,073	17,073	17,073	17,073	17,073	17,073
WWP Need/Surplus		1,532	125	(794)	(1,035)	(1,276)	(1,516)
Advanced Municipal Conservation		1,553	3,168	4,064	4,817	5,554	6,273
Irrigation District Conservation		500	998	1,500	1,999	2,499	2,998
Drought Management		309	338	357	361	366	371
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
Well and RO Unit at WTP 2		-	900	900	900	900	900
Well and RO Unit at WTP 3		-	900	900	900	900	900
New Supplies from WMS		2,362	6,354	7,771	9,027	10,269	11,492
Balance After WMS		3,894	6,479	6,977	7,992	8,993	9,976
Management Supply Factor		1.25	1.38	1.39	1.44	1.49	1.54
Southmost Regional Water Authority							
		2030	2040	2050	2060	2070	2080

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

Brownsville PUB - Contract Demand	Municipal	10,719	10,719	10,719	10,719	10,719	10,719
Los Fresnos - Contract Demand	Municipal	286	286	286	286	286	286
Manufacturing, Cameron - Contract Demand	Manufacturing	242	242	242	242	242	242
Valley MUD - Contract Demand	Municipal	290	290	290	290	290	290
WWP Demand		11,537	11,537	11,537	11,537	11,537	11,537
Brownsville PUB	Municipal	10,719	10,719	10,719	10,719	10,719	10,719
Los Fresnos	Municipal	286	286	286	286	286	286
Manufacturing, Cameron	Manufacturing	242	242	242	242	242	242
Valley MUD 2	Municipal	290	290	290	290	290	290
WWP Supplies		11,537	11,537	11,537	11,537	11,537	11,537
Brownsville PUB	Municipal	-	-	-	-	-	-
Los Fresnos	Municipal	-	-	-	-	-	-
Manufacturing, Cameron	Manufacturing	-	-	-	-	-	-
Valley MUD 2	Municipal	-	-	-	-	-	-
WWP Need/Surplus		-	-	-	-	-	-
Brackish Groundwater Desalination Wellfield Expansion		901	856	958	980	980	980
Phase 3 Wellfield Optimization and WTP Expansion		2,372	2,312	2,447	2,464	2,464	2,464
Phase 4 SRWA Wellfield and WTP Expansion		12,840	12,177	13,678	14,000	14,000	14,000
New Supplies from WMS		16,113	15,345	17,083	17,444	17,444	17,444
Balance After WMS		16,113	15,345	17,083	17,444	17,444	17,444
Management Supply Factor		2.40	2.33	2.48	2.51	2.51	2.51

United Irrigation District		2030	2040	2050	2060	2070	2080
Irrigation, Hidalgo	Irrigation	17,500	17,500	17,500	17,500	17,500	17,500
McAllen - Contract Demand	Municipal	11,250	11,250	11,250	11,250	11,250	11,250
Mission - Contract Demand	Municipal	22,700	22,700	22,700	22,700	22,700	22,700
Sharyland WSC - Contract Demand	Municipal	10,420	10,420	10,420	10,420	10,420	10,420
WWP Demand		61,870	61,870	61,870	61,870	61,870	61,870
Irrigation, Hidalgo	Irrigation	5,932	5,928	5,923	5,913	5,898	5,882
McAllen	Municipal	9,563	9,563	9,563	9,563	9,563	9,563
Mission	Municipal	18,400	18,400	18,399	18,398	18,397	18,395
Sharyland WSC	Municipal	8,857	8,857	8,857	8,857	8,857	8,857
WWP Supplies		42,752	42,748	42,742	42,731	42,715	42,697
Irrigation, Hidalgo	Irrigation	(11,568)	(11,572)	(11,577)	(11,587)	(11,602)	(11,618)

Appendix 5C: MWP Population, Demands, Needs, and Strategy Supplies

McAllen	Municipal	(1,687)	(1,687)	(1,687)	(1,687)	(1,687)	(1,687)
Mission	Municipal	(4,300)	(4,300)	(4,301)	(4,302)	(4,303)	(4,305)
Sharyland WSC	Municipal	(1,563)	(1,563)	(1,563)	(1,563)	(1,563)	(1,563)
WWP Need/Surplus		(19,118)	(19,122)	(19,128)	(19,139)	(19,155)	(19,173)
Irrigation District Conservation		469	939	1,408	1,878	2,347	2,816
Conversion/Purchase of Surface Water Rights		455	505	505	505	505	505
New Supplies from WMS		924	1,444	1,913	2,383	2,852	3,321
Balance After WMS		(18,194)	(17,678)	(17,215)	(16,756)	(16,303)	(15,852)
Management Supply Factor		0.71	0.71	0.72	0.73	0.74	0.74

Weslaco		2030	2040	2050	2060	2070	2080
Population		32,414	33,279	33,948	35,089	36,253	37,441
WUG Demand	Municipal	5,500	5,624	5,737	5,930	6,127	6,327
Military Highway WSC - Contract Demand	Municipal	175	175	175	175	175	175
WWP Demand		5,675	5,799	5,912	6,105	6,302	6,502
WUG Supply	Municipal	6,178	6,379	6,460	6,460	6,460	6,460
Military Highway WSC - Contract Demand	Municipal	175	175	175	175	175	175
WWP Supplies		6,353	6,554	6,635	6,635	6,635	6,635
WUG Need	Municipal	678	755	723	530	333	133
Military Highway WSC - Contract Demand	Municipal	-	-	-	-	-	-
WWP Need/Surplus		678	755	723	530	333	133
Advanced Municipal Conservation		551	797	1,060	1,335	1,615	1,902
Irrigation District Conservation		266	532	798	1,063	1,330	1,595
Drought Management		101	104	106	110	113	117
Conversion/Purchase of Surface Water Rights		-	50	50	50	50	50
North WWTP Potable Reuse		-	-	1,120	1,120	1,120	1,120
Groundwater Development and Blending		560	560	560	560	560	560
New Supplies from WMS		1,478	2,043	3,694	4,238	4,788	5,344
Balance After WMS		2,156	2,798	4,417	4,768	5,121	5,477