

Appendix D: Simulated Water Budget by Groundwater Conservation District

- Recharge: Positive values indicate Gulf Coast Aquifer System and equivalent units gain water from precipitation recharge.
- River/Stream/Reservoir: Positive values indicate rivers, streams, and reservoirs recharge Gulf Coast Aquifer System; negative values indicate rivers, streams, and reservoirs gain from Gulf Coast Aquifer System.
- Yegua-Jackson: Positive values indicate flow from Yegua-Jackson Aquifer to Gulf Coast Aquifer System; negative values indicate flow from Gulf Coast Aquifer System to Yegua-Jackson Aquifer.
- Mexico Upgradient: Positive values indicate flow from upgradient Mexico to downgradient study area in Mexico.
- Gulf: Positive values indicate flow from Gulf of Mexico; negative values indicate discharge to Gulf of Mexico.
- Spring Flow: Negative values indicate groundwater discharge by springs.
- Evapotranspiration: Negative values indicate groundwater loss due to evapotranspiration.
- From Rio Grande Upstream: Positive values indicate flow from upstream of Rio Grande to study area. This only occurs between Mexico and Starr County.
- Well: Negative values indicate groundwater extraction at pumping wells.
- Rio Grande to Gulf: Negative values indicate flow from Rio Grande to Gulf.
- Diversion from Rio Grande: Negative values indicate diversion from Rio Grande.
- Irrigation Return Flow: Positive values indicate recharge due to irrigation. Irrigation water is from diversion.
- Storage: Positive values indicate aquifers losing storage to groundwater flow; negative values indicate aquifers gaining water from groundwater flow.

Table D1 Water budget for Bee Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Bee GCD							
1980	37454	223766	-107021	0	-14420	-4355	0
1981	172031	190627	-105311	0	-14646	-3634	-103480
1982	6733	213081	-105447	0	-14497	-4343	38469
1983	57153	225851	-105030	0	-15047	-3898	-22690
1984	10528	238783	-109733	0	-15531	-4166	16627
1985	57847	202102	-85218	0	-15701	-3927	-19628
1986	19204	260536	-116660	0	-16762	-3987	-5807
1987	17674	228604	-131429	0	-14467	-3888	39311
1988	2239	243596	-99661	0	-16332	-4445	10101
1989	2738	229006	-103221	0	-14996	-4336	26666
1990	23613	286883	-136711	0	-16452	-4171	-15248
1991	71814	212886	-126448	0	-14450	-3608	-5622
1992	126431	207085	-114194	0	-14987	-3579	-66270
1993	34282	191797	-98984	0	-14576	-3866	21453
1994	46134	204307	-106104	0	-14564	-4046	7014
1995	10279	296783	-168010	0	-15417	-4121	14345
1996	2683	209316	-122357	0	-14203	-4574	56137
1997	131919	193395	-103322	0	-14508	-3714	-73644
1998	67567	205888	-107783	0	-14704	-3971	-16055
1999	5459	196220	-67707	0	-15998	-4532	20068
2000	24092	184063	-71037	0	-15091	-4177	15838
2001	32473	211426	-84180	0	-15613	-4389	-5932
2002	162750	245820	-145353	0	-16429	-4695	-104187
2003	62748	167279	-105401	0	-14575	-4326	25910
2004	182536	105877	-107414	0	-13899	-4751	-31676
2005	10392	175787	-101203	0	-13595	-5896	63410
2006	9414	275378	-122323	0	-16198	-6902	-6426
2007	207188	69560	-89311	0	-13537	-4927	-40291
2008	5991	215819	-106950	0	-14421	-7781	36944
2009	23215	237358	-110679	0	-15391	-4853	2973
2010	144160	177512	-106264	0	-14804	-6265	-62312
2011	1430	220745	-106252	0	-15188	-4989	38384
2012	12559	176710	-89485	0	-14268	-5684	53342
2013	34439	289420	-150753	0	-15566	-4545	-12616
2014	12355	231515	-128412	0	-14534	-4152	36957
2015	216854	199149	-117921	0	-15861	-3617	-143394

Table D2 Water budget for Blue Bonnet Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Bluebonnet GCD							
1980	39748	-496968	482196	0	-154723	-11353	0
1981	162701	-514494	456522	0	-159517	-8639	-74854
1982	66374	-503620	464452	0	-158415	-11014	2074
1983	140562	-531164	461672	0	-160889	-9778	-44191
1984	47157	-495032	458747	0	-160071	-10910	15922
1985	119612	-532320	465902	0	-160600	-10274	-27721
1986	139537	-542409	458128	0	-162235	-10406	-28653
1987	121452	-548134	467644	0	-161470	-10305	-13282
1988	3174	-461834	467750	0	-160037	-11995	24720
1989	53517	-480032	454915	0	-161018	-11501	1415
1990	31294	-460043	450302	0	-161410	-11216	6097
1991	207061	-556610	449474	0	-164050	-9380	-69891
1992	220179	-615606	477174	0	-165013	-9397	-47222
1993	178047	-593791	472480	0	-165123	-10258	-15070
1994	181312	-537285	425233	0	-170207	-10573	-23248
1995	72036	-503909	443623	0	-167156	-10966	47880
1996	20683	-541141	493067	0	-159986	-12379	72311
1997	204459	-530205	436333	0	-167290	-9654	-67724
1998	208933	-536659	419754	0	-170648	-10499	-42730
1999	6497	-510961	462756	0	-163396	-12117	90377
2000	132074	-477110	434816	0	-166734	-11033	-33967
2001	192805	-543330	436270	0	-168367	-9998	-34135
2002	217815	-560590	427599	0	-170476	-6880	-36413
2003	80630	-534829	451966	0	-166222	-8148	50881
2004	222262	-747490	548162	0	-149245	-10150	14928
2005	34580	-512732	465507	0	-159224	-9608	50526
2006	83422	-477567	446472	0	-163930	-6580	-12924
2007	222011	-682571	519966	0	-154930	-6558	-23448
2008	22380	-487730	459568	0	-161399	-6990	42413
2009	95900	-484393	435807	0	-164216	-6907	-7703
2010	31916	-490203	455954	0	-161498	-7707	39679
2011	2499	-458317	456852	0	-160371	-8983	36062
2012	130064	-492877	444731	0	-163399	-7887	-41473
2013	115157	-491750	443935	0	-164895	-9951	-18370
2014	118417	-487695	431503	0	-166274	-8844	-17008
2015	228367	-568078	442114	0	-167752	-7887	-57922

Table D3 Water budget for Brazoria County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Brazoria County GCD							
1980	70843	-52547	309	0	-121956	-8343	0
1981	167705	-93074	255	0	-131494	-7934	-32668
1982	69053	-35096	296	0	-123783	-8222	18912
1983	169759	-137304	250	0	-131934	-7250	-27911
1984	152270	-117408	241	0	-134005	-6966	-5256
1985	140724	-119876	247	0	-132328	-7157	-3927
1986	156154	-165058	242	0	-133709	-6847	-6939
1987	103347	-107036	300	0	-125320	-6762	10031
1988	29507	-8389	308	0	-121937	-7308	33275
1989	95603	-65409	290	0	-124706	-7171	-2045
1990	75681	-11485	296	0	-123216	-7244	7252
1991	176047	-155668	248	0	-131120	-6777	-30696
1992	173470	-132419	242	0	-133995	-5829	-17471
1993	164492	-117877	247	0	-133730	-5799	-8357
1994	132530	-116782	278	0	-127576	-5993	1664
1995	158285	-90702	253	0	-128377	-6266	-605
1996	59150	-117558	318	0	-120288	-7224	24226
1997	174849	-134872	255	0	-131383	-5063	-27602
1998	158537	-131909	246	0	-132819	-5669	-3624
1999	15060	-46805	324	0	-119907	-8049	46544
2000	98439	-91454	309	0	-123003	-6226	-7539
2001	170378	-128939	257	0	-129370	-4537	-24029
2002	174744	-156019	242	0	-134936	-4241	-16863
2003	139111	-104095	276	0	-129015	-3769	-19196
2004	175416	-136986	242	0	-133562	-4251	6282
2005	41872	-85234	306	0	-122949	-4520	42047
2006	124459	-110538	256	0	-130308	-4779	-2352
2007	174535	-97799	242	0	-132568	-6482	-17618
2008	55290	-70149	302	0	-123652	-11325	32674
2009	79754	-76162	283	0	-126036	-8842	10195
2010	152913	-112660	285	0	-127475	-8207	-20735
2011	5653	-40511	360	0	-112892	-4587	31322
2012	144774	-140215	290	0	-126477	-3194	-28735
2013	75792	-26520	342	0	-117377	-5009	-10677
2014	128493	-132398	276	0	-126430	-3660	2806
2015	173885	-128099	245	0	-132928	-3621	-15765

Table D4 Water budget for Brazos Valley Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Brazos Valley GCD							
1980	70	-33270	16156	0	-260	0	0
1981	362	-33063	16220	0	-246	0	8
1982	137	-33286	16114	0	-259	0	-7
1983	413	-34044	16032	0	-270	0	-6
1984	145	-33165	16214	0	-253	0	10
1985	207	-33314	16132	0	-257	0	-3
1986	294	-33518	16116	0	-259	0	-1
1987	180	-33930	15951	0	-280	0	-11
1988	9	-31699	16384	0	-231	0	27
1989	88	-33153	16115	0	-259	0	-16
1990	95	-33641	15993	0	-275	0	-8
1991	449	-34038	16046	0	-268	0	3
1992	439	-33939	16144	0	-262	0	4
1993	387	-33462	16166	0	-252	0	5
1994	496	-34003	16083	0	-263	0	-6
1995	196	-28530	16537	0	-205	0	32
1996	44	-29696	16525	0	-213	0	-4
1997	404	-33372	16166	0	-252	0	-22
1998	418	-33874	16079	0	-264	0	-6
1999	17	-31471	16355	0	-228	0	19
2000	226	-33220	16209	0	-253	0	-13
2001	418	-33776	16101	0	-261	0	-4
2002	515	-34912	15654	0	-318	0	-29
2003	253	-32104	16332	0	-231	0	45
2004	492	-33598	16221	0	-252	0	-11
2005	75	-32508	16242	0	-243	0	5
2006	263	-33285	16148	0	-255	0	-7
2007	415	-33916	16067	0	-265	0	-6
2008	162	-33477	16157	0	-260	0	3
2009	325	-33528	16131	0	-257	0	1
2010	63	-33217	16108	0	-260	0	-2
2011	11	-33086	16115	0	-259	0	1
2012	131	-33534	16115	0	-266	0	-3
2013	175	-32723	16230	0	-244	0	11
2014	355	-33593	16117	0	-259	0	-8
2015	534	-33329	14118	0	-432	0	-96

Table D5 Water budget for Brush Country Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Brush Country GCD							
1980	28367	173784	-22352	0	-35222	-11050	0
1981	208016	150107	-30364	0	-37870	-9220	-147355
1982	7413	164068	-24513	0	-36261	-11423	34522
1983	30463	167579	-23672	0	-35866	-10595	6447
1984	10883	167380	-22455	0	-35811	-11398	25978
1985	93145	168318	-31255	0	-36758	-10726	-48222
1986	16221	167536	-24444	0	-35992	-11237	22673
1987	52118	168029	-29371	0	-36407	-9969	-9263
1988	8058	171979	-24915	0	-36011	-10857	27291
1989	4277	172169	-22116	0	-35349	-10583	27309
1990	11610	162079	-16906	0	-34228	-10817	23389
1991	68065	172445	-27364	0	-35792	-10165	-32392
1992	99213	163525	-27874	0	-36636	-10605	-52934
1993	42866	165386	-25868	0	-36303	-10848	-838
1994	25768	167016	-23449	0	-35883	-11130	11465
1995	25640	154320	-7668	0	-34410	-10992	6686
1996	3971	181096	-23481	0	-35829	-12285	21452
1997	50844	168639	-22752	0	-35633	-10222	-16648
1998	29281	169228	-23081	0	-35564	-11165	5498
1999	16901	140999	535	0	-34332	-11826	21091
2000	9102	176930	-22037	0	-35625	-11485	17272
2001	23459	133410	9987	0	-33330	-10416	11712
2002	89048	158165	-17880	0	-35195	-10418	-49423
2003	208664	159615	-57058	0	-37499	-10600	-129364
2004	79787	234885	-38662	0	-43511	-10669	-85477
2005	9328	165049	-30736	0	-36562	-12160	40783
2006	33369	160951	-30304	0	-36317	-12343	22261
2007	137775	208579	-24926	0	-42829	-10400	-130227
2008	17503	156303	-25088	0	-36750	-9953	35485
2009	9316	156866	-23806	0	-35993	-11783	43283
2010	281279	122160	-28330	0	-40912	-9422	-186046
2011	2769	145742	-24316	0	-38089	-9542	64249
2012	7619	154891	-25756	0	-37250	-8853	52039
2013	37536	146164	-16888	0	-36308	-9630	21831
2014	41106	156068	-23510	0	-37136	-8651	13235
2015	289592	77523	-3802	0	-41527	-8455	-174428

Table D6 Water budget for Calhoun County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Calhoun County GCD							
1980	24876	53762	15948	0	-229702	-666	0
1981	175695	28471	11636	0	-267936	-675	-43231
1982	34932	43653	15154	0	-240537	-600	23425
1983	105097	32008	14324	0	-251593	-611	-11750
1984	79472	39981	13814	0	-249462	-687	3934
1985	53088	41511	15041	0	-240440	-566	8942
1986	94514	36306	14149	0	-249343	-500	-8970
1987	54389	43200	14926	0	-241981	-476	7782
1988	2335	50702	16324	0	-227363	-503	19324
1989	12861	54822	16171	0	-225833	-508	3217
1990	41556	46015	15974	0	-230132	-539	-3829
1991	172983	31135	11477	0	-267905	-590	-42137
1992	167922	21789	11225	0	-277817	-572	-14844
1993	92521	31366	13049	0	-259707	-612	13333
1994	44268	39076	15066	0	-242519	-597	17448
1995	74882	40832	14213	0	-247058	-498	-396
1996	8394	50414	16067	0	-230923	-520	19177
1997	178071	24441	11667	0	-269487	-539	-40577
1998	125598	27020	12442	0	-266189	-628	-554
1999	9818	41005	16439	0	-233245	-640	33249
2000	35869	47411	15545	0	-234535	-654	3706
2001	71758	40418	15079	0	-240944	-656	-8672
2002	165767	25300	11567	0	-269851	-742	-29316
2003	82682	32670	12948	0	-254101	-727	11944
2004	179897	20391	11034	0	-278503	-796	-22150
2005	36259	41170	14724	0	-245831	-862	32778
2006	139104	25483	12947	0	-264242	-898	-16979
2007	181005	20806	10714	0	-281595	-2219	-16388
2008	10944	45215	15309	0	-240198	-1024	39886
2009	33401	47073	15263	0	-234886	-1130	8598
2010	154762	25579	12466	0	-263324	-1120	-31102
2011	1332	45296	16015	0	-231286	-1556	35265
2012	97788	36142	13927	0	-247878	-1235	-16657
2013	37435	46383	15242	0	-237031	-1313	10416
2014	34783	48478	15419	0	-233877	-1947	4443
2015	157661	27986	12494	0	-264806	-1719	-32332

Table D7 Water budget for Coastal Bend Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Spring	Evapo- transpiration	Pumping	Storage
Coastal Bend GCD						
1980	93935	-15371	0	-16765	-165471	0
1981	312542	-48221	0	-20523	-117762	-219758
1982	124353	-7307	0	-22816	-157381	-28971
1983	338173	-143119	0	-23841	-132077	-131337
1984	208288	-189898	0	-21449	-142771	40514
1985	169402	-75641	0	-24074	-128538	-37430
1986	226308	-187691	0	-21584	-135264	9388
1987	187889	-81141	0	-22620	-132667	-43112
1988	8744	-80275	0	-20626	-155467	147211
1989	64221	-51757	0	-20180	-154853	66686
1990	64086	-61859	0	-19986	-144967	60953
1991	360091	-68238	0	-23482	-116057	-248108
1992	374722	-280525	0	-20522	-119952	-53432
1993	344385	-240733	0	-22809	-125464	-57799
1994	332684	-238775	0	-23439	-130763	-34474
1995	261854	-303272	0	-19890	-131697	89517
1996	106311	-155760	0	-22476	-151974	105143
1997	378071	-247952	0	-20737	-111524	-103177
1998	314087	-233960	0	-21241	-123865	-37066
1999	36689	-154357	0	-19038	-146553	174880
2000	253289	-196362	0	-18346	-129794	-19900
2001	323593	-264136	0	-18887	-135319	-22677
2002	375143	-290641	0	-19767	-130239	-52767
2003	280505	-258260	0	-20394	-131502	12328
2004	377867	-241372	0	-23918	-109123	-105170
2005	185287	-284690	0	-19206	-93382	100949
2006	193879	-221698	0	-19801	-113038	42473
2007	374518	-230477	0	-23205	-86154	-135541
2008	67666	-213634	0	-17241	-133846	192799
2009	145957	-141898	0	-18155	-125191	31395
2010	214527	-187725	0	-18540	-119904	-1885
2011	3542	13410	0	-18138	-179123	90226
2012	217782	-95579	0	-18066	-143138	-60783
2013	94035	-27471	0	-18141	-151314	9862
2014	172359	-90212	0	-17660	-149105	-9606
2015	370835	-119885	0	-21052	-112506	-205778

Table D8 Water budget for Coastal Plain Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Coastal Plains GCD							
1980	90188	164990	9273	0	-332479	-32721	0
1981	376725	44094	7203	0	-368205	-22817	-130487
1982	134513	86604	8815	0	-336157	-28392	1057
1983	348272	66103	7310	0	-364367	-25572	-94209
1984	269154	99473	7957	0	-364781	-27717	-70509
1985	180930	71549	7753	0	-356030	-26170	37782
1986	308280	118742	7482	0	-372292	-26611	-72529
1987	148069	70110	8831	0	-344923	-25157	57758
1988	17244	108507	9355	0	-324590	-29801	74517
1989	124081	130975	9073	0	-333581	-31177	-4523
1990	165888	76844	8909	0	-340530	-29685	-27118
1991	386940	67690	7009	0	-375262	-26717	-101885
1992	384909	-22422	7003	0	-390819	-26960	-19169
1993	303041	-10160	7330	0	-381684	-30058	19938
1994	190974	65534	8128	0	-348537	-32206	19783
1995	316630	33488	8312	0	-382462	-32848	-69337
1996	95152	175183	9906	0	-341398	-36657	45241
1997	388174	-20209	6953	0	-384376	-28128	-24470
1998	337629	-310	7139	0	-389011	-28457	1320
1999	38129	143321	10160	0	-345133	-31736	88779
2000	168585	119684	9884	0	-346087	-27951	-3258
2001	281114	49133	8690	0	-362768	-23251	-34998
2002	377901	17394	7275	0	-385920	-22299	-40289
2003	316874	76441	8228	0	-390516	-48618	-34705
2004	389651	-46094	6936	0	-402924	-39434	0
2005	107365	135182	9075	0	-363068	-36663	70949
2006	337280	82079	7787	0	-389442	-38997	-60826
2007	389141	-52347	6848	0	-404602	-22231	-19570
2008	53058	113244	9161	0	-354560	-28842	115800
2009	130317	120397	9072	0	-351609	-51687	57840
2010	346511	54927	7959	0	-379460	-27886	-77351
2011	8813	165017	10480	0	-333457	-56237	111647
2012	291149	122556	8867	0	-362642	-37720	-69854
2013	176896	25192	8904	0	-351470	-40100	60752
2014	172418	133314	9233	0	-351901	-39586	3020
2015	383448	8722	7716	0	-375185	-42452	-67429

Table D9 Water budget for Colorado County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Colorado County GCD							
1980	42700	-242689	477935	0	-47166	-29517	0
1981	283207	-246699	414447	0	-57174	-22194	-166828
1982	77356	-72410	340016	0	-74138	-27171	-32591
1983	208960	-201387	352569	0	-73043	-26141	-51148
1984	82781	-110240	330330	0	-79230	-24884	8669
1985	157256	-48365	310529	0	-80399	-23370	-94454
1986	157668	-92320	303485	0	-84194	-24173	-37883
1987	151190	-222637	347934	0	-74410	-23622	38460
1988	6339	-34430	329064	0	-79637	-27595	31032
1989	60183	-130682	323363	0	-81072	-27166	62019
1990	38793	-57324	323585	0	-81598	-26118	14173
1991	282645	-146420	329208	0	-78053	-22126	-147476
1992	322524	-523609	430010	0	-49501	-21122	58432
1993	250108	-328017	449780	0	-50248	-22957	-73953
1994	270324	-256087	357520	0	-67909	-23629	-62467
1995	101062	-545974	457434	0	-45827	-24050	256087
1996	31790	-36592	353458	0	-72625	-27056	-40694
1997	322099	-686166	475447	0	-31105	-20413	147525
1998	310367	-548401	487141	0	-32833	-22068	13704
1999	13765	-309459	508604	0	-32628	-25731	58965
2000	226126	-416350	496696	0	-43400	-24951	-47084
2001	257682	-388160	477936	0	-44840	-21606	-80049
2002	318034	-456335	475526	0	-45072	-20517	-67207
2003	138428	-450560	483582	0	-44663	-20660	91611
2004	328529	-654611	491384	0	-31086	-21733	84739
2005	111517	-338572	497325	0	-43039	-25579	860
2006	81561	-254630	451532	0	-51414	-25497	-9212
2007	328955	-660367	493542	0	-29638	-29773	95418
2008	8243	-559936	525285	0	-25196	-18162	270581
2009	144431	-58854	483435	0	-43902	-23429	-297192
2010	74450	-240252	489568	0	-45200	-47586	-30103
2011	3478	-209357	472484	0	-47575	-49832	22908
2012	131251	-312342	481081	0	-46060	-28425	-34420
2013	100474	-326406	487489	0	-45373	-20913	-4779
2014	159759	-328074	479773	0	-46198	-28296	-48370
2015	333485	-322357	419182	0	-53409	-24825	-161419

Table D10 Water budget for Corpus Christi Aquifer Storage and Recovery Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Corpus Christi ASRCD							
1980	4111	1799	4958	0	-40299	-10	0
1981	24055	442	3804	0	-41906	-9	-10334
1982	765	1306	4810	0	-40426	-9	5136
1983	10495	976	4424	0	-40991	-9	-1763
1984	1952	1383	4884	0	-40455	-8	3225
1985	16890	472	4587	0	-41374	-9	-6494
1986	3942	940	4748	0	-40741	-20	3368
1987	4795	990	4801	0	-40564	-9	2112
1988	808	1320	5003	0	-40190	-21	3288
1989	491	1818	5055	0	-40027	-21	2253
1990	1121	1189	5014	0	-39788	-22	1808
1991	28023	465	4218	0	-42481	-23	-12817
1992	17850	271	3930	0	-42648	-17	-2222
1993	18476	-85	4069	0	-42652	-27	-2853
1994	4080	597	4719	0	-41149	-25	4859
1995	8165	490	4652	0	-41024	-23	882
1996	589	1529	4961	0	-40650	-21	3543
1997	40605	-1142	3503	0	-44173	-63	-16811
1998	10275	-333	4252	0	-42203	-19	4631
1999	4364	126	4650	0	-41029	-21	5708
2000	1284	873	4838	0	-40693	-19	4932
2001	6464	854	4813	0	-40800	-18	534
2002	36498	-1076	3529	0	-43626	-18	-14675
2003	8513	-222	4422	0	-41776	-20	4503
2004	32620	-2297	3502	0	-44327	-20	-6609
2005	1820	223	4647	0	-41396	-39	9575
2006	2972	577	4505	0	-40900	-40	5365
2007	22792	286	3806	0	-43089	-33	-5519
2008	1860	804	4769	0	-41093	-49	6029
2009	1606	1253	4907	0	-40511	-53	3737
2010	20046	-125	4231	0	-41720	-46	-8295
2011	271	893	4877	0	-40578	-47	5813
2012	1072	1358	4945	0	-40454	-42	3427
2013	3392	1244	4955	0	-40331	-47	1550
2014	5876	1455	4945	0	-40564	-44	-850
2015	38993	-870	3602	0	-43969	-44	-16743

Table D11 Water budget for Duval County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Duval County GCD							
1980	19706	164159	74021	0	-132635	-9198	0
1981	101685	161247	64149	0	-135218	-7135	-69514
1982	5439	158935	70415	0	-132936	-9195	22999
1983	11481	150033	77386	0	-132229	-7871	16805
1984	5587	153982	78431	0	-131981	-8246	18025
1985	63897	135189	76946	0	-132631	-8321	-19030
1986	8563	150969	79638	0	-131601	-8836	16852
1987	25708	162227	75207	0	-132252	-9459	-6630
1988	4173	168024	76165	0	-132107	-10174	8991
1989	2816	159955	78513	0	-131162	-10181	15405
1990	11541	154604	81325	0	-131442	-10822	10477
1991	50791	147610	79379	0	-132515	-10743	-18699
1992	49381	147044	80157	0	-133089	-11158	-16301
1993	16883	161171	79217	0	-132216	-12343	2051
1994	28323	155636	79572	0	-132506	-13910	-1576
1995	18264	184916	73830	0	-132641	-13680	-15238
1996	2044	177226	74657	0	-132688	-13234	7540
1997	23611	163960	73288	0	-132627	-9788	-3145
1998	15390	161206	75021	0	-132296	-9629	5713
1999	7927	146286	79190	0	-130711	-14040	25643
2000	9488	167082	76564	0	-132061	-12714	6489
2001	13213	139994	82830	0	-130187	-13604	22706
2002	59202	159869	75806	0	-133017	-16594	-31348
2003	81735	146757	71883	0	-133263	-11999	-40223
2004	65363	310566	61587	0	-136884	-13185	-171930
2005	5960	155472	67909	0	-132706	-13652	33191
2006	23024	125195	66393	0	-132602	-11554	43658
2007	158450	273463	49956	0	-140343	-9426	-216041
2008	7405	135473	62567	0	-134424	-8502	54895
2009	7288	109853	70975	0	-132123	-7259	67191
2010	173292	110641	64466	0	-137023	-6729	-88066
2011	1882	104056	73154	0	-133092	-8338	77060
2012	5702	109021	76086	0	-132549	-9069	63882
2013	26012	122765	75216	0	-132075	-7147	26930
2014	22043	171591	71774	0	-132900	-6913	-11878
2015	254009	93906	66979	0	-139685	-6221	-152928

Table D12 Water budget for Evergreen Underground Water Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Evergreen UWCD							
1980	16396	-811508	746990	0	-7677	-1702	0
1981	44651	-646218	567810	0	-8174	-1706	-13408
1982	7122	-810802	744420	0	-7646	-1957	11335
1983	10424	-680312	629248	0	-9233	-1985	-1897
1984	3920	-779698	724198	0	-8037	-2149	5972
1985	40521	-826461	695266	0	-9134	-2012	45715
1986	9970	-24316	29978	0	-10611	-1767	-58425
1987	14196	-666836	603741	0	-8427	-1858	4481
1988	1271	-494316	434434	0	-9154	-1806	-2880
1989	3014	-794966	729370	0	-7782	-1979	15155
1990	7432	-572560	532216	0	-9230	-1903	-23807
1991	55043	-734603	627242	0	-8168	-1679	-2690
1992	77153	-791682	684311	0	-8284	-1509	-16888
1993	8637	-866719	780124	0	-7303	-2565	22001
1994	32545	-722807	650252	0	-8076	-2451	-7963
1995	4697	-235066	185458	0	-9328	-1913	-11525
1996	2596	-858711	775682	0	-8108	-1638	3430
1997	51183	-906639	772003	0	-7832	-1578	25993
1998	49200	-777078	706923	0	-8167	-1626	-25856
1999	2076	-414259	365776	0	-9164	-2315	19101
2000	31473	-726434	650337	0	-8757	-1545	-12548
2001	38110	-817384	722649	0	-7582	-1614	11314
2002	117583	-1002514	820836	0	-9061	-1550	18111
2003	18922	-565394	473697	0	-8354	-1485	-24704
2004	99719	-862327	733065	0	-7800	-1550	-22165
2005	6612	-818286	720313	0	-7483	-1823	27152
2006	5442	-438664	288356	0	-11010	-1882	81368
2007	155290	-1023690	898599	0	-7079	-2490	-72427
2008	1663	-800189	757196	0	-7475	-2920	-5581
2009	21724	-808695	740751	0	-7570	-2750	-4338
2010	34910	-825442	743173	0	-7550	-2749	592
2011	1494	-727793	688814	0	-8495	-2888	-9502
2012	6296	-931861	818429	0	-6046	-2452	57289
2013	7794	-723074	716133	0	-8042	-2998	-49951
2014	8827	-658736	624837	0	-8727	-3134	-22651
2015	114769	-826117	685901	0	-8946	-2685	-17220

Table D13 Water budget for Fayette County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Fayette County GCD							
1980	16109	-1750459	1875067	0	-126072	-2252	0
1981	155735	-1494693	1555282	0	-143490	-2046	-60337
1982	19118	-1180979	1309629	0	-148276	-2154	5410
1983	59327	-1284462	1384427	0	-147797	-2067	-3618
1984	20177	-1240986	1363847	0	-147971	-1994	9184
1985	60272	-947411	1078208	0	-155816	-2151	-29951
1986	100533	-1152138	1211610	0	-152343	-2099	-4271
1987	77363	-1252440	1334182	0	-148598	-1102	-1717
1988	3458	-1239016	1358714	0	-147894	-2149	29460
1989	29167	-1225113	1345517	0	-147894	-2150	2608
1990	19357	-1225484	1354358	0	-147622	-2174	4095
1991	155225	-1233039	1278172	0	-151733	-1520	-42309
1992	174780	-1752984	1721286	0	-134843	-1253	3407
1993	94815	-1896313	1899308	0	-120244	-1278	30734
1994	143908	-1296407	1352336	0	-148258	-2198	-45508
1995	31895	-1797387	1841712	0	-121686	-2235	55971
1996	11987	-1196502	1349045	0	-146801	-2338	-11519
1997	157205	-1948017	1919991	0	-121120	-2210	4570
1998	149937	-1886066	1881551	0	-121210	-1848	-10101
1999	3721	-1940655	2023106	0	-115220	-2382	45076
2000	95267	-1948915	1996904	0	-116748	-2273	-10954
2001	121571	-1803775	1838220	0	-120866	-2189	-20808
2002	174382	-1935501	1913755	0	-121913	-2209	-17083
2003	50685	-1913272	1964243	0	-117264	-2365	29733
2004	181526	-1870170	1867470	0	-121859	-2390	-33674
2005	15131	-1807294	1896182	0	-117102	-2559	32037
2006	23659	-1509666	1646183	0	-137399	-2560	-5156
2007	180232	-1798872	1802279	0	-125112	-2302	-33157
2008	6295	-1835635	1923978	0	-117017	-2239	44159
2009	102900	-1745353	1803582	0	-127712	-2378	-14465
2010	31951	-1810364	1895792	0	-122691	-1490	21824
2011	1921	-1653453	1792104	0	-129230	-2158	5737
2012	57079	-1797916	1880453	0	-124031	-1954	123
2013	25115	-1842423	1942094	0	-120159	-1654	10142
2014	57664	-1848600	1934087	0	-122178	-1736	-6549
2015	189080	-1523669	1555022	0	-141865	-1766	-65808

Table D14 Water budget for Fort Bend Subsidence District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Spring	Evapo- transpiration	Pumping	Storage
Fort Bend Subsidence District						
1980	77229	-106507	0	-6957	-22569	0
1981	168564	-146099	0	-7155	-18504	-58551
1982	51784	-119975	0	-7068	-21733	29716
1983	176155	-159257	0	-7233	-17302	-55438
1984	107420	-128326	0	-7493	-18673	-3203
1985	148993	-163136	0	-7279	-18574	-18393
1986	151370	-158520	0	-7378	-20366	-15836
1987	109000	-153717	0	-7291	-20824	14199
1988	7157	-107510	0	-7099	-23081	67677
1989	76886	-114146	0	-7116	-21929	5396
1990	35382	-102409	0	-7042	-22403	30762
1991	184606	-156216	0	-7257	-19327	-68920
1992	185739	-176315	0	-7412	-19389	-46224
1993	179977	-179239	0	-7536	-20676	-29936
1994	151336	-179254	0	-7523	-22103	-1297
1995	155701	-161008	0	-7742	-22341	-8041
1996	45604	-108394	0	-7795	-24315	54535
1997	186709	-174602	0	-7526	-19985	-37449
1998	162112	-181239	0	-7457	-21641	-9636
1999	20621	-110365	0	-7773	-24584	64373
2000	114213	-137806	0	-7288	-23331	2411
2001	182585	-167700	0	-7356	-19322	-39253
2002	183862	-180285	0	-7498	-17841	-28893
2003	153723	-160933	0	-8059	-18258	-10813
2004	186159	-197813	0	-7457	-16596	-16254
2005	61729	-136814	0	-7448	-18295	54002
2006	146612	-154337	0	-7402	-18901	-8146
2007	183819	-184803	0	-7439	-18905	-25699
2008	40102	-132405	0	-7244	-19583	65444
2009	99483	-134199	0	-7199	-23493	12575
2010	133344	-138122	0	-7211	-21723	-11642
2011	3165	-96562	0	-7462	-23624	59667
2012	146380	-140878	0	-7457	-15475	-37870
2013	68511	-112564	0	-8009	-16858	7362
2014	121318	-144436	0	-7383	-15189	-11427
2015	185738	-173524	0	-7395	-18277	-44927

Table D15 Water budget for Goliad County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Spring	Evapo- transpiration	Pumping	Storage
Goliad County GCD						
1980	47854	-129730	0	-9161	-3707	0
1981	239121	-178331	0	-9080	-3693	-137481
1982	12738	-145801	0	-8871	-3682	54634
1983	69549	-145713	0	-9061	-3657	-2595
1984	17897	-133385	0	-9420	-3603	32457
1985	69453	-141887	0	-9589	-3650	-9026
1986	29470	-123250	0	-9959	-3669	7638
1987	24387	-135380	0	-8993	-3721	28047
1988	2416	-125185	0	-8909	-3763	32956
1989	5435	-118117	0	-9262	-3896	24631
1990	34848	-123246	0	-9538	-4064	-2060
1991	157601	-156893	0	-9418	-3990	-85815
1992	144278	-168435	0	-9292	-3883	-59896
1993	63650	-156482	0	-9458	-4001	9290
1994	97730	-159424	0	-9658	-3994	-19698
1995	20705	-133482	0	-10332	-3986	33124
1996	4732	-136452	0	-9281	-4044	48583
1997	226986	-183772	0	-9527	-4119	-122771
1998	176247	-192035	0	-9418	-4144	-59582
1999	5473	-139466	0	-9940	-3982	73815
2000	65478	-152456	0	-10226	-3706	9499
2001	121981	-171012	0	-9620	-3994	-29483
2002	195809	-192054	0	-10523	-4098	-80834
2003	77114	-176257	0	-9917	-4646	21140
2004	239084	-219516	0	-9129	-4536	-87986
2005	13315	-169067	0	-9085	-5426	86406
2006	24729	-145906	0	-10071	-4942	45490
2007	250986	-214756	0	-8983	-3843	-102944
2008	6718	-159077	0	-10048	-4971	80125
2009	56894	-161619	0	-9706	-5283	29205
2010	143299	-174521	0	-10212	-5168	-43773
2011	3370	-146841	0	-10250	-5876	66656
2012	30742	-139684	0	-10407	-5514	30986
2013	28203	-134338	0	-9935	-5489	33889
2014	14681	-127421	0	-10091	-5538	32981
2015	259930	-190090	0	-10285	-5427	-146563

Table D16 Water budget for Gonzales County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Gonzales County UWCD							
1980	1008	40	-4166	0	-30	0	0
1981	5437	82	-5957	0	-524	0	-2495
1982	654	88	-4849	0	-48	0	852
1983	1715	66	-4921	0	-70	0	-29
1984	535	15	-4408	0	-27	0	686
1985	3578	77	-5305	0	-113	0	-1319
1986	1572	22	-4878	0	-125	0	337
1987	4013	118	-5652	0	-350	0	-1133
1988	95	7	-4368	0	-33	0	1292
1989	474	7	-4221	0	-20	0	700
1990	487	7	-3983	0	-17	0	451
1991	7210	42	-6171	0	-516	0	-3575
1992	8843	252	-7425	0	-629	0	-3968
1993	2562	165	-6445	0	-208	0	1073
1994	3939	86	-6476	0	-303	0	-161
1995	759	29	-5486	0	-55	0	1755
1996	332	7	-4769	0	-27	0	1431
1997	6349	416	-6616	0	-578	0	-2526
1998	7920	368	-7546	0	-683	0	-2935
1999	192	55	-5799	0	-73	0	2684
2000	4403	14	-6458	0	-287	0	-651
2001	4084	84	-6521	0	-247	0	-397
2002	10257	148	-8255	0	-1017	0	-4070
2003	1472	71	-6679	0	-286	0	2514
2004	8939	137	-8195	0	-972	0	-2811
2005	733	84	-6490	0	-86	0	2772
2006	342	7	-5505	0	-37	0	2161
2007	10286	91	-7973	0	-754	0	-4594
2008	132	8	-6088	0	-83	0	3081
2009	2588	24	-6060	0	-229	0	704
2010	1608	61	-5587	0	-125	0	1043
2011	195	7	-4776	0	-37	0	1573
2012	1169	7	-4936	0	-86	0	783
2013	781	11	-4590	0	-58	0	823
2014	679	7	-4420	0	-30	-5	693
2015	9623	93	-7016	0	-688	-5	-5020

Table D17 Water budget for Kenedy County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Kenedy County GCD							
1980	29289	-15240	24553	0	-237159	-4667	0
1981	243230	-39424	22619	0	-270520	-4107	-144767
1982	10927	-30390	23799	0	-249184	-4433	53039
1983	65448	-23962	23585	0	-252924	-4423	-848
1984	19290	-15326	23928	0	-245306	-4300	21240
1985	114451	-35275	23485	0	-255505	-3882	-34787
1986	33378	-28864	23798	0	-248263	-4317	30002
1987	63306	-13710	23153	0	-252237	-3997	-12814
1988	10728	-26318	23971	0	-243167	-4248	40050
1989	6355	-19793	24269	0	-237624	-4165	31029
1990	9111	-17645	24456	0	-235191	-4215	22383
1991	134049	-18970	22943	0	-258081	-3728	-64844
1992	177245	-20414	21619	0	-276934	-3660	-84163
1993	189516	-28185	20608	0	-289979	-4027	-70138
1994	30249	-23977	22372	0	-263580	-3867	46034
1995	103701	-31796	21665	0	-272247	-4277	-5860
1996	6417	-21605	23040	0	-253313	-4737	54578
1997	256073	-26400	19213	0	-305258	-4530	-111260
1998	110293	-24101	20049	0	-291923	-4805	8429
1999	46085	-23333	21732	0	-270070	-4590	40712
2000	9778	-19406	22889	0	-254970	-4918	48646
2001	36016	-22024	23247	0	-250689	-4943	21562
2002	184496	-29258	20905	0	-288772	-4658	-69730
2003	209828	-27980	19584	0	-305956	-4251	-77532
2004	123105	-24638	20181	0	-297339	-3716	1928
2005	17199	-21622	22013	0	-267926	-6156	62032
2006	159344	-32823	20329	0	-293014	-5722	-38927
2007	204984	-36527	19597	0	-307104	-5238	-58527
2008	67287	-27684	21023	0	-287871	-4756	41451
2009	21861	-26889	22006	0	-265749	-4494	61249
2010	268014	-47663	21256	0	-302351	-4952	-121446
2011	4318	-30216	22689	0	-266835	-5060	81278
2012	10481	-23340	23321	0	-255277	-4037	50743
2013	64569	-32623	22803	0	-258398	-4228	12266
2014	95160	-26247	21861	0	-265686	-4991	-13028
2015	567059	-50742	14207	0	-390673	-3845	-301682

Table D18 Water budget for Live Oak Underground Water Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Live Oak UWCD							
1980	35093	-299734	216360	0	-17936	-4367	0
1981	96573	-300897	205671	0	-20584	-3930	-52353
1982	7497	-282877	205712	0	-19515	-4391	21641
1983	11483	-298717	220186	0	-18254	-3849	18184
1984	5308	-290547	219485	0	-18137	-4101	18286
1985	72132	-295011	204939	0	-19673	-3504	-26542
1986	10945	-271291	198291	0	-19773	-3570	14883
1987	14190	-241530	177549	0	-21740	-3800	5746
1988	2131	-268035	199236	0	-19834	-4446	21171
1989	1862	-290068	218890	0	-17710	-4489	22659
1990	14252	-280198	211743	0	-18292	-4526	298
1991	40752	-284022	203348	0	-18481	-4170	-15751
1992	53400	-294910	206471	0	-18952	-4346	-13250
1993	6772	-327460	243869	0	-15801	-4461	24908
1994	25155	-291774	216986	0	-17306	-4586	-279
1995	6304	-265064	201789	0	-18682	-4409	12434
1996	1887	-311483	237926	0	-16150	-5093	20870
1997	62091	-300793	218354	0	-18040	-3533	-27048
1998	23737	-303767	223039	0	-17137	-3188	7361
1999	3509	-193013	159310	0	-27485	-3463	-3493
2000	18225	-287929	206424	0	-19060	-3220	16784
2001	12478	-292415	216884	0	-17116	-2644	12742
2002	155506	-314205	187784	0	-19041	-2807	-83890
2003	46925	-276448	182525	0	-19814	-1960	-827
2004	102886	-309265	195625	0	-20272	-2088	-37320
2005	7541	-279364	198514	0	-19825	-2607	24776
2006	6558	-299795	220471	0	-18318	-2963	24288
2007	223958	-359390	191250	0	-20151	-2444	-103579
2008	4456	-298741	202206	0	-19306	-2801	41443
2009	6733	-285554	203979	0	-19392	-2869	23410
2010	142050	-291749	172905	0	-23320	-1390	-72431
2011	1558	-290378	201599	0	-20319	-1664	37078
2012	8095	-318515	227068	0	-17898	-1466	30370
2013	16354	-281508	208310	0	-19475	-1448	5122
2014	13023	-317034	233229	0	-17344	-1440	16568
2015	153014	-295459	180149	0	-21768	-1281	-82512

Table D19 Water budget for McMullen Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
McMullen GCD							
1980	4748	527838	-525199	0	-2586	-17	0
1981	12012	755353	-685795	0	-5581	-12	-66137
1982	1353	524886	-555595	0	-2712	-8	37868
1983	1958	527399	-533799	0	-2603	-5	12021
1984	902	500936	-506069	0	-2761	-1	10595
1985	8853	347499	-403914	0	-1975	-7	50682
1986	2055	548332	-509170	0	-2342	-8	-34732
1987	2841	525371	-507852	0	-3393	-9	-13202
1988	594	563560	-541039	0	-4321	-9	-14901
1989	546	464587	-483078	0	-2617	-9	23039
1990	4433	658140	-623837	0	-2967	-9	-25218
1991	8274	666697	-660227	0	-3455	-8	501
1992	7767	470773	-494103	0	-2186	-7	22190
1993	793	599283	-559574	0	-4150	-6	-30674
1994	6842	526410	-535401	0	-2773	-9	9787
1995	1785	367970	-402314	0	-2221	-9	35413
1996	341	613553	-565523	0	-3439	-13	-39689
1997	5281	416925	-445982	0	-2919	-10	28579
1998	1887	482404	-478473	0	-2582	-9	-370
1999	937	324691	-348171	0	-3794	-9	24689
2000	2414	544077	-498333	0	-5148	-3	-40047
2001	1784	477203	-489668	0	-2879	-5	16655
2002	31702	785750	-707117	0	-5944	-4	-93770
2003	18341	450968	-500347	0	-4822	-4	39129
2004	25631	560069	-555029	0	-5971	-11	-20919
2005	877	648914	-647660	0	-3089	-19	5008
2006	2367	433598	-476064	0	-2629	-18	45349
2007	40296	527992	-515752	0	-5689	-18	-42808
2008	950	521223	-532779	0	-2726	-16	18168
2009	1462	553727	-547321	0	-2731	-17	877
2010	29549	507534	-525598	0	-2731	-19	-3588
2011	229	489351	-496752	0	-2586	-15	13611
2012	1687	539814	-529875	0	-2631	-13	-4077
2013	4950	538441	-524693	0	-3362	-11	-9890
2014	2066	554046	-551988	0	-2178	-11	4195
2015	32857	305151	-382327	0	-2141	-11	45859

Table D20 Water budget for Pecan Valley Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Pecan Valley GCD							
1980	25478	-2054587	2249436	0	-57678	-2898	0
1981	198263	-2063109	2183037	0	-59548	-2634	-102689
1982	31969	-2059775	2216028	0	-57597	-3146	30646
1983	52866	-1891573	2060994	0	-61112	-2981	-6691
1984	18157	-1906565	2100829	0	-61398	-3229	9914
1985	104452	-1762755	1927113	0	-66804	-3177	-41012
1986	40080	-1559027	1760614	0	-69665	-3144	-9567
1987	73879	-2129596	2249313	0	-58872	-3387	20940
1988	3208	-1571964	1833774	0	-62056	-3424	-20366
1989	12479	-1909920	2099230	0	-61088	-3358	25591
1990	18368	-958351	1238570	0	-79215	-3287	-40563
1991	202532	-2209605	2282901	0	-57768	-2674	-48963
1992	181016	-1972826	2069076	0	-62611	-3609	-52257
1993	78332	-1960963	2117120	0	-59484	-3658	836
1994	142391	-1768721	1907774	0	-66351	-3683	-48002
1995	16068	-2022907	2199217	0	-61012	-3871	43546
1996	11437	-1406040	1677320	0	-61392	-4090	-17645
1997	246511	-1951093	2011334	0	-61976	-3989	-68626
1998	235613	-1995611	2042344	0	-64608	-4265	-53911
1999	6438	-938264	1106582	0	-85474	-4453	50561
2000	148110	-1722891	1864277	0	-66127	-3927	-47116
2001	121858	-1906718	2007558	0	-65705	-4397	7785
2002	252370	-1759448	1815585	0	-73569	-4104	-72273
2003	97261	-684660	941919	0	-74676	-4361	-56963
2004	240050	-2037518	2048918	0	-62509	-4381	-12379
2005	31687	-1743356	1900317	0	-61945	-5324	61821
2006	12670	-478898	802424	0	-87088	-5468	-46736
2007	281704	-2173377	2140087	0	-61339	-5283	-19952
2008	4146	-2051350	2202725	0	-60903	-5780	80430
2009	86319	-1949493	2098455	0	-62229	-5742	4846
2010	97264	-1507030	1671091	0	-73737	-5183	-13491
2011	4345	-1166546	1386162	0	-80364	-5761	34961
2012	29258	-1189539	1393540	0	-80315	-5646	25877
2013	23413	-1812319	1973057	0	-68482	-5448	52875
2014	30170	-2071792	2254108	0	-60708	-5435	23838
2015	259610	-1807624	1889095	0	-70492	-4802	-103105

Table D21 Water budget for Red Sands Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Spring	Evapo- transpiration	Pumping	Storage
Red Sands GCD						
1980	721	0	0	-15618	-721	0
1981	3425	0	0	-16765	-565	-1825
1982	318	0	0	-16041	-722	700
1983	1295	0	0	-16168	-630	-229
1984	450	0	0	-15902	-722	418
1985	1568	0	0	-16125	-656	-499
1986	500	0	0	-15836	-745	386
1987	1085	0	0	-15954	-669	-148
1988	339	0	0	-15684	-835	457
1989	151	0	0	-15429	-811	438
1990	249	0	0	-15350	-778	285
1991	1587	0	0	-15898	-636	-664
1992	2173	0	0	-16422	-607	-873
1993	1410	0	0	-16337	-667	-170
1994	459	0	0	-15950	-699	460
1995	591	0	0	-15833	-718	260
1996	168	0	0	-15570	-814	519
1997	1471	0	0	-15968	-609	-529
1998	830	0	0	-15882	-657	69
1999	724	0	0	-15737	-787	167
2000	212	0	0	-15562	-694	417
2001	399	0	0	-15503	-594	173
2002	1568	0	0	-15894	-560	-704
2003	5031	0	0	-17204	-374	-3407
2004	1510	0	0	-17076	-314	-106
2005	317	0	0	-16509	-358	687
2006	4000	0	0	-17938	-286	-1772
2007	2635	0	0	-17964	-305	-322
2008	2691	0	0	-18069	-175	-592
2009	436	0	0	-17124	-392	1047
2010	8355	0	0	-20257	-182	-4431
2011	4	0	0	-18162	-194	1998
2012	282	0	0	-17402	-222	1147
2013	689	0	0	-17180	-207	667
2014	1010	0	0	-17096	-288	402
2015	11818	0	0	-21841	-235	-6272

Table D22 Water budget for Refugio Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Refugio GCD							
1980	50810	12068	578	0	-95910	-2271	0
1981	253344	-51541	387	0	-111426	-1961	-113880
1982	12645	65	560	0	-98996	-2148	57159
1983	176519	-35184	430	0	-106491	-1878	-60582
1984	24557	-2998	555	0	-98635	-1940	47976
1985	77981	-3643	498	0	-99758	-1731	-3745
1986	80683	-4606	560	0	-100599	-1749	-4397
1987	45408	-2877	567	0	-98394	-1749	26837
1988	2861	23834	634	0	-94476	-1769	35281
1989	6191	25621	654	0	-92630	-1812	26588
1990	53705	12716	624	0	-94326	-1641	-7564
1991	169252	-24860	480	0	-105944	-1482	-64725
1992	202891	-46917	429	0	-112865	-1466	-65663
1993	158657	-48489	451	0	-111744	-1486	-19850
1994	66749	-20502	553	0	-103369	-1573	31234
1995	38746	-2491	567	0	-99679	-1638	36930
1996	5109	10493	632	0	-95069	-1822	47984
1997	245078	-54239	404	0	-111311	-1570	-102178
1998	156590	-46205	448	0	-111309	-1701	-21143
1999	20280	-5308	573	0	-99070	-1687	53847
2000	25094	3950	594	0	-97301	-1578	37413
2001	67177	-2047	581	0	-97940	-1541	2068
2002	205377	-43965	427	0	-111159	-1661	-73341
2003	145790	-45774	462	0	-109731	-1399	-13687
2004	198249	-70614	396	0	-116757	-1393	-30222
2005	34745	-17312	540	0	-104142	-2054	62745
2006	61734	-9603	528	0	-104466	-2145	25132
2007	239831	-68017	376	0	-116913	-1848	-73222
2008	6465	-3451	566	0	-100827	-2258	71661
2009	42492	2507	581	0	-100380	-1815	27056
2010	201825	-48434	413	0	-110402	-1779	-66405
2011	2091	7499	605	0	-98062	-2725	59499
2012	37856	7046	594	0	-98201	-2040	23178
2013	31307	16423	635	0	-95521	-2020	15301
2014	33237	15184	634	0	-95617	-1864	14531
2015	239636	-53715	439	0	-110044	-1593	-100762

Table D23 Water budget for San Patricio County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
San Patricio County GCD							
1980	43513	-15175	3	0	-60571	-7302	0
1981	195527	-30405	-1	0	-71990	-5777	-118077
1982	4953	-17524	2	0	-64107	-7053	47351
1983	109152	-27755	0	0	-67483	-6433	-40155
1984	15115	-18065	2	0	-63397	-6863	36579
1985	121316	-29469	-1	0	-67638	-6516	-50597
1986	15779	-16091	1	0	-64220	-6732	35217
1987	35103	-17376	2	0	-63452	-6657	15566
1988	3455	-2106	3	0	-61324	-7578	28408
1989	1745	-11045	3	0	-59227	-7351	34867
1990	10441	-1090	4	0	-59092	-7091	15354
1991	106097	-12059	1	0	-66052	-5998	-57927
1992	125184	-29383	0	0	-68630	-5922	-54645
1993	66979	-29534	0	0	-67001	-6442	2544
1994	23801	-19634	1	0	-63817	-6555	28942
1995	31225	-19324	1	0	-63911	-6779	20507
1996	2299	-11257	2	0	-60563	-7517	36054
1997	170310	-28964	-2	0	-71105	-6027	-96283
1998	62001	-26665	0	0	-68132	-8707	6206
1999	25481	5595	1	0	-67817	-9238	9772
2000	9620	-15851	2	0	-63054	-8112	38050
2001	22065	-15435	2	0	-61823	-7525	22381
2002	140596	-29462	-2	0	-70848	-7276	-65650
2003	75742	-18299	-1	0	-68526	-10144	-13240
2004	117023	-35320	-1	0	-72175	-11164	-30959
2005	10606	-20150	1	0	-65288	-11965	49231
2006	11366	-1667	2	0	-63195	-12607	26504
2007	131692	-35094	0	0	-69736	-8271	-54823
2008	6881	-18114	1	0	-63958	-16581	50750
2009	8375	-13621	2	0	-61402	-12848	36663
2010	177760	-31186	-1	0	-71599	-9963	-99701
2011	1428	-16974	1	0	-63884	-19552	57109
2012	14171	-12863	2	0	-62363	-17013	34518
2013	18809	-7817	3	0	-61038	-9135	16543
2014	37329	-13092	2	0	-61054	-10346	5751
2015	187917	-30523	-2	0	-73163	-9034	-108115

Table D24 Water budget for Starr County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Spring	Evapo- transpiration	From Rio Grande Upstream	Pumping	Storage
Starr County GCD								
1980	4347	164526	-55291	0	-53654	1314858	-629	0
1981	26924	159953	-58707	0	-53954	1567429	-644	-15090
1982	2221	163278	-56186	0	-53594	1347127	-673	4661
1983	8183	163409	-56895	0	-53589	1144829	-682	-795
1984	2757	167025	-58198	0	-53651	1033179	-718	2280
1985	11190	291537	-156882	0	-55982	767135	-723	-29341
1986	4442	163123	-74324	0	-53583	1141402	-698	18957
1987	8067	237466	-118868	0	-54623	879828	-849	-11543
1988	2744	178523	-79584	0	-53883	1261520	-846	11027
1989	1637	164390	-61051	0	-53587	1586206	-601	7566
1990	2911	149740	-45826	0	-53355	1301614	-634	7159
1991	9143	225077	-102127	0	-54369	1207336	-633	-17712
1992	13658	163714	-66717	0	-53967	1671800	-648	2078
1993	7802	167863	-62868	0	-53682	1324969	-542	1586
1994	3005	134361	-57205	0	-52312	1302440	-583	31454
1995	3489	79801	10362	0	-48751	938076	-601	15892
1996	1297	231449	-89709	0	-53669	690742	-745	-28962
1997	9685	153751	-54128	0	-53023	502274	-841	3815
1998	6965	154509	-54669	0	-52683	743948	-969	4460
1999	5073	28523	26449	0	-45901	678494	-997	45683
2000	1689	204515	-70156	0	-52301	737271	-655	-24475
2001	3173	49497	29671	0	-47805	572926	-988	25664
2002	22342	137292	-20469	0	-51959	533536	-1269	-27669
2003	61511	176535	-70049	0	-53804	538745	-803	-54523
2004	20453	133617	-42874	0	-52890	286527	-858	2567
2005	2411	192364	-77537	0	-53582	813461	-1137	-5806
2006	7901	281561	-152846	0	-55867	829685	-1110	-20961
2007	17407	121220	-47136	0	-52466	816566	-1136	20957
2008	33020	162084	-61665	0	-53930	1018176	-1129	-19640
2009	5216	166048	-61592	0	-53595	1086333	-1072	4006
2010	24848	155901	-57003	0	-53985	3045644	-1293	-13746
2011	482	162976	-56760	0	-53554	1328109	-1346	11342
2012	2985	215277	-96179	0	-54259	1328109	-1162	-7342
2013	8248	119556	-32662	0	-52552	1328109	-1251	17908
2014	4455	171791	-58683	0	-53585	1328109	-1265	-3758
2015	45855	19750	30401	0	-46965	1328109	-1295	11482

Table D25 Water budget for Texana Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Texana GCD							
1980	56486	85410	67	0	-108089	-60054	0
1981	254711	-79628	42	0	-106832	-43042	-44976
1982	78798	-68024	66	0	-89213	-55922	106522
1983	226175	-33587	51	0	-99218	-47737	-67634
1984	102826	-10810	56	0	-96291	-53030	31244
1985	108135	-14373	62	0	-93035	-49567	21330
1986	128514	-31973	62	0	-89853	-50792	16018
1987	124314	-49507	72	0	-85165	-49525	29084
1988	4434	119776	75	0	-95364	-60284	-2346
1989	22854	84499	72	0	-96323	-57490	12844
1990	56126	24004	73	0	-88403	-54416	29875
1991	274614	-47795	47	0	-95924	-43934	-111562
1992	286378	-96829	41	0	-102250	-42916	-66179
1993	219140	-87444	56	0	-99636	-47436	-9138
1994	221523	-102728	64	0	-95873	-49117	-2604
1995	134914	-52181	60	0	-95352	-49588	31538
1996	40260	68180	70	0	-102444	-56476	18970
1997	287046	-112446	42	0	-103792	-41643	-53834
1998	265431	-153389	48	0	-97457	-45937	7122
1999	18197	-7347	73	0	-90505	-54681	100975
2000	137650	46510	65	0	-103183	-48132	-64639
2001	207218	-72512	52	0	-100386	-43335	-18166
2002	283020	-85188	41	0	-108578	-38610	-72086
2003	197477	-71387	52	0	-107975	-36931	-3136
2004	290387	-214903	40	0	-95681	-47900	44592
2005	87938	-73470	67	0	-88269	-46663	88515
2006	143590	-1598	60	0	-96558	-37102	-38079
2007	287007	-166431	42	0	-93173	-37048	-15581
2008	37990	24070	69	0	-98045	-39496	43971
2009	60426	42501	69	0	-100206	-49465	13115
2010	205004	-28861	43	0	-105432	-44962	-50499
2011	2051	64489	70	0	-99464	-89806	88502
2012	160800	21471	59	0	-103968	-52283	-54867
2013	61187	79803	67	0	-104920	-99743	27400
2014	91160	56761	66	0	-104208	-73546	-5442
2015	276785	-80045	45	0	-105208	-41840	-77245

Table D26 Water budget for Victoria County Groundwater Conservation District.

GCD/Year	Recharge	River/ Stream/ Reservoir	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Victoria County GCD							
1980	44447	35454	12	0	-67359	-22685	0
1981	246334	-56158	-91	0	-73483	-21720	-109052
1982	37546	-7003	-20	0	-69088	-15615	41577
1983	132417	-44177	-46	0	-71126	-23336	-8671
1984	45397	24664	-27	0	-69663	-25295	12012
1985	104500	10433	8	0	-73613	-25121	-31765
1986	87888	17896	-88	0	-74499	-29083	-11825
1987	105856	-18097	-41	0	-70750	-24089	-2030
1988	2748	57948	-54	0	-69820	-25358	29091
1989	13197	49353	-86	0	-67911	-24794	26142
1990	52292	62048	-14	0	-73803	-22258	-21882
1991	272179	-85097	-151	0	-75317	-20646	-100870
1992	271830	-119011	-212	0	-77524	-21399	-64635
1993	207081	-105815	-121	0	-77878	-22581	-14329
1994	148472	-60467	-195	0	-76373	-22612	319
1995	60994	-32927	-174	0	-73291	-23760	56658
1996	16502	18572	-158	0	-70041	-26484	53270
1997	296174	-112577	-179	0	-76820	-22721	-97033
1998	235818	-128705	-150	0	-75563	-24444	-24335
1999	12308	39889	-151	0	-81152	-26153	41042
2000	104564	-46740	-142	0	-71574	-25680	26281
2001	146373	-61854	-128	0	-72294	-20127	-7613
2002	256590	-91108	-306	0	-78641	-13999	-87973
2003	140998	-53252	-355	0	-79940	-9948	-11131
2004	288639	-201877	-60	0	-76570	-11202	-22923
2005	58993	-48502	-64	0	-73191	-12551	58197
2006	106985	30258	-258	0	-93132	-8391	-47498
2007	298706	-218894	-50	0	-76247	-7833	-16669
2008	18126	-28579	-16	0	-72710	-9672	77791
2009	53813	-10125	-109	0	-71724	-15487	32129
2010	247065	-93887	-55	0	-80042	-19587	-69646
2011	2960	2433	-20	0	-72847	-33903	87701
2012	62719	-7499	-167	0	-72545	-21482	26661
2013	43040	6823	-140	0	-70930	-18241	25810
2014	48186	27056	-206	0	-69987	-20371	6969
2015	285182	-111357	-90	0	-76485	-15901	-97090

Table C27 Water budget for Texas counties without a groundwater conservation district.

GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Gulf	Spring	Evapo- transpiration	Pumping	Rio Grande to Gulf	Diversion	Irrigation Return Flow	Storage
No GCD											
1980	117227	-279537	1448965	4837	-172	-1432508	-36236	-124790	-498119	115917	0
1981	797007	-469575	1346377	4498	-172	-1503557	-31941	-803843	-339322	79583	-271616
1982	133834	-399046	1416239	4676	-172	-1446678	-35708	-197602	-510910	121338	161577
1983	394091	-385815	1365842	4707	-174	-1457031	-33244	-124433	-413085	97686	-31027
1984	175726	-267928	1403274	4549	-173	-1451193	-34918	-102769	-405170	95112	27670
1985	389741	-369941	1357340	4734	-174	-1433039	-31550	-56713	-314549	75746	-41097
1986	316302	-316232	1325512	4802	-175	-1436258	-32385	-65861	-387844	92929	-11418
1987	356256	-505440	1376409	4555	-172	-1434576	-31786	-98918	-342096	81851	102950
1988	29978	-271030	1458620	4717	-172	-1430567	-36308	-215547	-460850	108756	58272
1989	93210	-244422	1414728	4768	-173	-1431743	-35201	-139622	-607883	138966	-804
1990	86865	-204962	1397458	4820	-173	-1430258	-33760	-118040	-518936	116747	11646
1991	707060	-367520	1295963	4654	-175	-1483959	-29609	-131007	-428028	99325	-253218
1992	745214	-555106	1316858	4412	-177	-1502488	-28991	-708803	-300487	72770	-102875
1993	499663	-430344	1300507	4603	-171	-1480560	-31024	-94646	-454722	106919	-6095
1994	492537	-424903	1273428	4709	-176	-1456332	-33118	-167922	-437807	99735	-18546
1995	252789	-435013	1401298	4714	-174	-1454294	-33595	-50300	-422573	100027	97902
1996	66547	-224541	1381476	4836	-172	-1426073	-36350	-82260	-427954	99697	70373
1997	782206	-561569	1327971	4651	-176	-1462772	-32369	-100422	-297015	68246	-143805
1998	620013	-575220	1320030	4743	-177	-1448584	-35152	-130642	-334441	77738	3077
1999	68677	-305912	1416052	4795	-171	-1430749	-40181	-144339	-313151	72604	145863
2000	341548	-307332	1356354	4803	-175	-1427095	-36705	-181653	-356045	83337	-58080
2001	403830	-385202	1323849	4797	-176	-1415328	-37157	-170769	-351299	79592	-12605
2002	812804	-433534	1250795	4648	-177	-1481317	-37151	-183204	-299550	69337	-195609
2003	598766	-419436	1334650	4310	-175	-1532853	-28154	-91717	-254412	56980	-34782
2004	752144	-513368	1113377	4677	-162	-1483846	-29944	-262	-230887	59887	64693
2005	129665	-471880	1388679	4902	-171	-1420884	-35393	-977	-440141	96279	250987

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GCD/Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Gulf	Spring	Evapo- transpiration	Pumping	Rio Grande to Gulf	Diversion	Irrigation Return Flow	Storage
No GCD											
2006	232626	-190217	1336951	4959	-173	-1451584	-34695	-16412	-459511	99930	-38937
2007	852752	-515027	1173991	4456	-162	-1506449	-35850	-203825	-276409	61422	-89815
2008	256578	-350329	1375199	4232	-171	-1507460	-37069	-152053	-395522	85973	115174
2009	303074	-303069	1340080	4595	-174	-1461367	-41011	-188561	-483277	102899	-15374
2010	594177	-298109	1388118	3921	-172	-1566039	-38577	-2183551	-279495	60343	-238350
2011	14402	-230133	1417417	4396	-172	-1469169	-43314	-499843	-378627	81936	186932
2012	142474	-236086	1398834	4556	-174	-1451847	-42805	-457213	-379664	82160	31459
2013	272395	-275520	1381319	4539	-174	-1461313	-41539	-456968	-378627	81936	-32426
2014	347707	-260123	1343910	4404	-175	-1484939	-42082	-457872	-378627	81936	-53849
2015	1276795	-457132	1184495	3992	-177	-1671279	-39985	-464937	-378627	81936	-412141

Table C28 Water budget for Mexico.

GCD/ Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Mexico Upgradient	Gulf	Evapo- transpiration	From Rio Grande Upstream	Pumping	Rio Grande to Gulf	Diversions	Irrigation Return Flow	Storage
Mexico												
1980	6659	-34469	-1246	189440	7162	-371833	1314858	-17661	-124790	-1929062	126802	0
1981	41729	12977	-3040	190031	6740	-376248	1567429	-17546	-803843	-1105631	64913	-32993
1982	4941	-30832	-1959	190013	6931	-372032	1347127	-17994	-197602	-1858291	115583	25328
1983	23918	-38792	-1841	189212	6944	-371761	1144829	-18511	-124433	-1690372	112660	6410
1984	33129	-40787	-1371	189964	6791	-371633	1033179	-19031	-102769	-1515274	96934	9343
1985	16878	-47305	-1202	193189	6970	-351575	767135	-19623	-56713	-1184210	74130	30507
1986	14623	-43632	-1491	191031	7075	-363034	1141402	-20142	-65861	-1816289	127485	-14618
1987	28286	-41292	-1324	192826	6396	-356016	879828	-20487	-98918	-1277204	80079	11611
1988	6418	-26979	-1424	193825	6909	-358872	1261520	-21009	-215547	-1642507	101581	-9130
1989	3637	-35154	-1546	189784	7015	-374614	1586206	-21527	-139622	-2324838	154307	-20031
1990	3338	-38898	-1292	190444	7118	-368803	1301614	-22045	-118040	-1900317	125179	7116
1991	32129	-40232	-1459	188833	6865	-375358	1207336	-22560	-131007	-1775191	120998	-8168
1992	33967	1042	-2252	188270	6544	-391533	1671800	-23079	-708803	-1557837	113063	-39542
1993	17898	-48624	-1841	186750	6793	-386874	1324969	-23599	-94646	-2103938	148948	20861
1994	8954	-37820	-1498	187975	6924	-379122	1302440	-24119	-167922	-1867204	130767	6395
1995	21259	-52188	-1008	191311	6892	-361089	938076	-24638	-50300	-1434662	85697	34662
1996	4066	-44836	-482	199359	7121	-330904	690742	-25159	-82260	-842726	27371	48466
1997	37424	-45114	-526	200908	6926	-325913	502274	-25672	-100422	-563377	17793	18380
1998	10677	-39426	-919	202180	7017	-326075	743948	-26192	-130642	-926140	48321	4234
1999	7230	-38644	-744	204064	7090	-321242	678494	-26713	-144339	-793722	38084	12505
2000	3449	-33372	-562	206465	7101	-318424	737271	-26924	-181653	-777787	30046	9184
2001	4949	-34571	-313	208999	7094	-307993	572926	-26921	-170769	-485719	4110	22089
2002	30331	-35457	-674	209224	6633	-311564	533536	-27744	-183204	-431807	3799	1862
2003	67104	-50006	-2218	204277	6794	-331715	538745	-27789	-91717	-706291	39090	-23683
2004	56853	-74847	-1848	205430	6996	-321658	286527	-28702	-262	-465486	23710	17254
2005	5863	-60735	-1612	204460	7287	-321764	813461	-28774	-977	-1245981	72334	-7755
2006	16456	-55900	-1645	203427	7350	-324725	829685	-29171	-16412	-1230829	69105	-9021
2007	51238	-37703	-3206	200118	6927	-343698	816566	-30374	-203825	-967267	62946	-31460

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GCD/ Year	Recharge	River/ Stream/ Reservoir	Yegua- Jackson	Mexico Upgradient	Gulf	Evapo- transpiration	From Rio Grande Upstream	Pumping	Rio Grande to Gulf	Diversion	Irrigation Return Flow	Storage
Mexico												
2008	63795	-45311	-3612	195931	6694	-362039	1018176	-30484	-152053	-1379544	91535	-32639
2009	10251	-39143	-2343	197975	6920	-349470	1086333	-31065	-188561	-1337366	79166	8828
2010	80954	60640	-4435	190990	5899	-416260	3045644	-31366	-2183551	-1177679	85375	-125425
2011	2223	-26316	-2194	194573	6511	-378173	1328109	-31493	-499843	-1360772	92005	72465
2012	3498	-24410	-1714	196354	6725	-367396	1328109	-32267	-457213	-1361980	92005	15750
2013	20307	-25172	-1761	195083	6716	-368140	1328109	-33564	-456968	-1360772	92005	252
2014	43484	-29675	-1635	193285	6488	-376608	1328109	-37194	-457872	-1360772	92005	-7352
2015	180087	-37615	-3708	183190	6004	-419362	1328109	-38158	-464937	-1360772	92005	-75937