

Appendix C: Simulated Water Budget by County

- 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 C1 Water budget for Aransas County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Aransas							
1980	12204	6606	6761	0	-103133	-358	0
1981	88675	1692	5241	0	-129970	-359	-24303
1982	2366	6167	6594	0	-107008	-353	17189
1983	42977	3714	6054	0	-115760	-444	-6436
1984	4561	6497	6727	0	-104630	-565	9837
1985	24112	5879	6459	0	-107934	-459	-2492
1986	23950	6054	6453	0	-108458	-422	-1034
1987	20468	5763	6485	0	-107451	-428	1181
1988	1655	7408	6867	0	-101074	-393	6855
1989	4374	7434	6908	0	-99503	-383	2177
1990	14712	6702	6741	0	-102411	-381	-2427
1991	77390	2984	5465	0	-125232	-398	-20796
1992	57643	2281	5718	0	-125396	-397	-2352
1993	40325	2966	6029	0	-119450	-503	3797
1994	11524	6039	6604	0	-108018	-487	10002
1995	21875	5729	6444	0	-108146	-477	1430
1996	1241	7445	6863	0	-101287	-485	7568
1997	81753	1908	5415	0	-127025	-490	-22472
1998	44916	3109	5863	0	-121290	-523	2437
1999	11356	6777	6471	0	-108479	-511	10875
2000	11807	6799	6625	0	-105183	-503	4713
2001	10479	6176	6729	0	-103186	-424	2643
2002	78851	2098	5433	0	-126630	-378	-20644
2003	29376	3977	6278	0	-115476	-375	6401
2004	81079	1216	5268	0	-132569	-375	-12832
2005	14092	4309	6513	0	-111951	-395	15431
2006	48213	3416	5921	0	-118462	-364	-4062
2007	83923	1012	5231	0	-133897	-367	-12416
2008	2155	6395	6582	0	-108587	-370	20043
2009	21184	5238	6462	0	-108142	-407	2187
2010	71250	2223	5643	0	-125943	-368	-15194
2011	574	6998	6689	0	-105658	-442	16235
2012	15781	6774	6717	0	-105981	-419	1249
2013	6931	7047	6765	0	-102276	-436	4382
2014	11173	6932	6768	0	-102449	-476	536
2015	83757	1757	5350	0	-128297	-423	-22558

Table C2 Water budget for Austin County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Austin							
1980	39272	-160703	333962	0	-154233	-11353	0
1981	160830	-175205	308074	0	-159046	-8639	-74889
1982	65524	-165390	316780	0	-157925	-11014	2120
1983	138635	-189306	315261	0	-160367	-9778	-44113
1984	46534	-156081	310011	0	-159598	-10910	15797
1985	118161	-191860	318154	0	-160113	-10274	-27679
1986	137979	-200854	310641	0	-161743	-10406	-28643
1987	120169	-206058	321741	0	-160934	-10305	-13180
1988	3134	-126408	316912	0	-159606	-11995	24436
1989	52969	-142086	307100	0	-160531	-11501	1583
1990	30899	-122302	303496	0	-160903	-11216	6139
1991	204767	-212686	302903	0	-163535	-9380	-69866
1992	217797	-268587	329718	0	-164509	-9397	-47247
1993	175951	-247974	324599	0	-164644	-10258	-15122
1994	179135	-190344	278438	0	-169697	-10573	-23175
1995	71152	-175986	290658	0	-166771	-10966	47471
1996	20459	-211505	340275	0	-159592	-12379	72343
1997	202171	-186303	288430	0	-166813	-9654	-67433
1998	206666	-190050	272927	0	-170138	-10499	-42649
1999	6416	-174801	312195	0	-162972	-12117	90136
2000	130755	-134906	286108	0	-166270	-11033	-33847
2001	190618	-197720	289198	0	-167863	-9998	-34027
2002	215333	-213362	285185	0	-169812	-6880	-36091
2003	79508	-194103	302008	0	-165793	-8148	50353
2004	219845	-403711	399638	0	-148782	-10150	15010
2005	34209	-174573	316367	0	-158768	-9608	50518
2006	82287	-136570	298513	0	-163448	-6580	-12849
2007	219588	-339655	372832	0	-154444	-6558	-23466
2008	21697	-147215	311573	0	-160908	-6990	42442
2009	94576	-143692	288135	0	-163732	-6907	-7720
2010	31580	-151819	308199	0	-161008	-7707	39698
2011	2462	-121656	308914	0	-159884	-8983	36052
2012	128595	-150899	297067	0	-162896	-7887	-41431
2013	113370	-149900	295430	0	-164425	-9951	-18443
2014	116717	-145150	284086	0	-165783	-8844	-16960
2015	225772	-236132	310443	0	-166470	-7887	-57031

Table C3 Water budget for Bee County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Bee							
1980	37847	229668	-107021	0	-14997	-9799	0
1981	173488	195762	-105311	0	-15222	-8070	-104223
1982	6777	218617	-105447	0	-15072	-8790	38771
1983	57665	231559	-105030	0	-15606	-8258	-22864
1984	10615	244771	-109733	0	-16108	-8141	16659
1985	58157	207701	-85218	0	-16278	-6803	-19809
1986	19355	266307	-116660	0	-17337	-6448	-5940
1987	17788	233652	-131429	0	-15027	-6229	39559
1988	2255	249596	-99661	0	-16906	-7108	10012
1989	2764	234577	-103221	0	-15571	-6913	26815
1990	23848	292658	-136711	0	-17027	-6318	-15443
1991	72320	217748	-126448	0	-15025	-6033	-5577
1992	127542	211783	-114194	0	-15565	-5593	-66808
1993	34501	196648	-98984	0	-15144	-6173	21661
1994	46556	209147	-106104	0	-15140	-6280	7016
1995	10340	301736	-168010	0	-15987	-6288	14582
1996	2704	214070	-122357	0	-14784	-6283	56359
1997	132882	198118	-103322	0	-15084	-5418	-74158
1998	68058	210635	-107783	0	-15280	-5738	-16109
1999	5486	201788	-67707	0	-16572	-6286	20084
2000	24310	189219	-71037	0	-15666	-5923	15929
2001	32756	216691	-84180	0	-16189	-6139	-5984
2002	163996	250556	-145353	0	-17005	-6464	-104756
2003	63104	171634	-105401	0	-15150	-6059	26174
2004	184193	108170	-107414	0	-14470	-6440	-31897
2005	10488	179881	-101203	0	-14158	-7631	63726
2006	9514	280770	-122323	0	-16773	-8629	-6537
2007	208591	71948	-89311	0	-14100	-6653	-40259
2008	6014	220601	-106950	0	-14999	-9512	37058
2009	23338	242527	-110679	0	-15968	-6579	2984
2010	145218	181794	-106264	0	-15380	-7991	-62632
2011	1439	225709	-106252	0	-15764	-6715	38612
2012	12622	181297	-89485	0	-14846	-7795	53738
2013	34628	294526	-150753	0	-16144	-6271	-12649
2014	12424	236340	-128412	0	-15110	-5878	37155
2015	218679	203759	-117921	0	-16437	-5343	-144536

Table C4 Water budget for Brazoria County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Brazoria							
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 C5 Water budget for Brazos County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Brazos							
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 C6 Water budget for Brooks County.

County/ Year	Recharge	River/ Stream	Spring	Evapo- transpiration	Pumping	Storage
Brooks						
1980	9502	-45394	0	-28813	-1560	0
1981	72773	-55385	0	-34179	-1510	-48339
1982	2495	-48319	0	-31008	-1673	11940
1983	15719	-48672	0	-30981	-1590	-982
1984	4149	-46477	0	-30122	-1697	7615
1985	22674	-49118	0	-30961	-1592	-7664
1986	6633	-46828	0	-30159	-1877	5696
1987	19710	-48620	0	-30757	-1481	-5414
1988	2468	-46372	0	-29803	-1668	8776
1989	1469	-44806	0	-29095	-1684	7924
1990	2564	-44165	0	-28794	-1589	5918
1991	20160	-46999	0	-30058	-1618	-7878
1992	31893	-49856	0	-31790	-1494	-15815
1993	21616	-49362	0	-31869	-1705	-5728
1994	6108	-46929	0	-30557	-1699	6184
1995	8944	-47390	0	-30335	-1696	3593
1996	1408	-44826	0	-29588	-1751	7939
1997	11210	-45608	0	-30098	-1602	-754
1998	11608	-46209	0	-30150	-1609	-628
1999	7980	-45703	0	-29806	-1750	2409
2000	2688	-44876	0	-29329	-1730	6390
2001	5861	-43536	0	-29077	-1902	2016
2002	18779	-46466	0	-30680	-1797	-6598
2003	85131	-54012	0	-36374	-2325	-59802
2004	12434	-49764	0	-33650	-2070	5421
2005	4101	-47804	0	-31956	-2630	10990
2006	19133	-49024	0	-33744	-2529	-1535
2007	33976	-52625	0	-34174	-2244	-13120
2008	7708	-49966	0	-32767	-2129	8556
2009	3807	-47614	0	-31303	-4001	10811
2010	87491	-62426	0	-39631	-2443	-52341
2011	1095	-52389	0	-34080	-2626	19435
2012	2658	-49639	0	-32259	-2176	13430
2013	8358	-48563	0	-31703	-2452	6857
2014	19431	-49334	0	-32473	-1896	-2932
2015	110371	-72452	0	-41289	-1741	-63554

Table C7 Water budget for Calhoun County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Calhoun							
1980	24832	53761	15948	0	-227231	-666	0
1981	175382	28469	11636	0	-265470	-675	-43230
1982	34869	43649	15154	0	-238072	-600	23424
1983	104953	32006	14324	0	-249127	-611	-11750
1984	79134	39980	13814	0	-246990	-687	3934
1985	53046	41509	15041	0	-237975	-566	8942
1986	94293	36305	14149	0	-246878	-500	-8970
1987	54298	43197	14926	0	-239516	-476	7782
1988	2329	50702	16324	0	-224891	-503	19324
1989	12814	54822	16171	0	-223369	-508	3217
1990	41456	46015	15974	0	-227667	-539	-3829
1991	172633	31134	11477	0	-265439	-590	-42137
1992	167587	21785	11225	0	-275345	-572	-14843
1993	92327	31365	13049	0	-257242	-612	13333
1994	44194	39072	15066	0	-240054	-597	17448
1995	74709	40831	14213	0	-244593	-498	-396
1996	8383	50414	16067	0	-228452	-520	19177
1997	177723	24438	11667	0	-267021	-539	-40577
1998	125351	27015	12442	0	-263723	-628	-554
1999	9802	41005	16439	0	-230780	-640	33249
2000	35819	47411	15545	0	-232063	-654	3706
2001	71639	40415	15079	0	-238479	-656	-8672
2002	165417	25300	11567	0	-267385	-742	-29316
2003	82395	32669	12948	0	-251636	-727	11944
2004	179548	20378	11034	0	-276030	-796	-22150
2005	36202	41167	14724	0	-243366	-862	32778
2006	138767	25483	12947	0	-261776	-898	-16979
2007	180642	20793	10714	0	-279129	-2219	-16388
2008	10886	45214	15309	0	-237726	-1024	39886
2009	33348	47073	15263	0	-232421	-1130	8598
2010	154482	25578	12466	0	-260858	-1120	-31102
2011	1327	45296	16015	0	-228821	-1556	35265
2012	97637	36141	13927	0	-245406	-1235	-16657
2013	37301	46383	15242	0	-234566	-1313	10416
2014	34753	48478	15419	0	-231412	-1947	4443
2015	157326	27984	12494	0	-262341	-1719	-32331

Table C8 Water budget for Cameron County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Rio Grande to Gulf	Diversion from Rio Grande	Irrigation Return Flow	Storage
Cameron										
1980	6373	347960	36652	0	-434371	-7204	-124778	-85687	24392	0
1981	37714	373120	34393	0	-458168	-5683	-803832	-53592	14512	-30403
1982	6199	346453	35714	0	-443350	-7243	-197581	-84951	24672	20182
1983	26606	340920	35795	0	-442060	-6279	-124429	-65947	18607	2476
1984	36012	341593	35074	0	-449392	-6804	-102739	-71011	21307	-1003
1985	15582	342537	36069	0	-435613	-6360	-56724	-51605	16772	10439
1986	18456	341181	36387	0	-434975	-6718	-65865	-66955	21860	-1076
1987	39087	345351	33218	0	-443285	-6643	-98943	-54300	16901	-4634
1988	5768	356690	35772	0	-438747	-7899	-215541	-76679	22086	45
1989	4175	347053	36153	0	-435574	-7675	-139612	-102576	27492	2368
1990	2297	346710	36560	0	-432622	-7333	-118057	-91770	25891	2658
1991	37244	341074	35230	0	-445233	-5902	-131005	-71650	21760	-9649
1992	38784	368786	33631	0	-463634	-5824	-708741	-48851	15422	-22589
1993	21149	335446	34907	0	-447762	-6400	-94653	-75249	23727	20674
1994	9657	347245	35779	0	-440705	-6660	-167977	-77478	21913	3607
1995	31960	334828	35541	0	-441534	-6816	-50315	-73039	22799	3017
1996	4510	348821	36648	0	-431637	-7843	-82279	-73262	21338	8604
1997	39025	345881	35338	0	-440025	-5944	-100438	-53500	15834	-6685
1998	17077	350479	35891	0	-435932	-6577	-130686	-59585	18974	1537
1999	7038	356199	36330	0	-430015	-8579	-144358	-52823	16641	4525
2000	3397	360687	36412	0	-430844	-7735	-181693	-63476	20678	-129
2001	4172	360880	36378	0	-427550	-9742	-170792	-61522	18412	2666
2002	38879	355053	34961	0	-440358	-9127	-183231	-50218	15765	-10046
2003	121183	324703	33818	0	-479607	-461	-91734	-40844	12216	-25538

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County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Rio Grande to Gulf	Diversion from Rio Grande	Irrigation Return Flow	Storage
Cameron										
2004	39351	323240	36014	0	-446908	-499	-262	-5465	12391	26093
2005	6513	334578	37205	0	-426939	-3938	-986	-80254	21197	13470
2006	10676	340077	37455	0	-424773	-5923	-16428	-86740	22490	1125
2007	91391	341688	34187	0	-461493	-7645	-203822	-47433	12551	-32776
2008	105726	323320	32192	0	-478562	-5266	-152022	-70394	17622	-12784
2009	11981	345587	35173	0	-448381	-8137	-188546	-88956	20221	20647
2010	81879	398395	30661	0	-503122	-7667	-2184066	-47498	10842	-60150
2011	2596	357705	34126	0	-459783	-7520	-499900	-68166	16605	46774
2012	4740	364562	35002	0	-448833	-7936	-457222	-68353	16651	10169
2013	45312	352650	34747	0	-457031	-7773	-456966	-68166	16605	-9812
2014	52101	350424	33661	0	-465239	-8438	-457868	-68166	16605	-4652
2015	130917	326408	31716	0	-499683	-8462	-464902	-68166	16605	-25738

Table C9 Water budget for Colorado County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Colorado							
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 C10 Water budget for DeWitt County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
DeWitt							
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 C11 Water budget for Duval County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Duval							
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 C12 Water budget for Fayette County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Fayette							
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 C13 Water budget for Fort Bend County.

County/ Year	Recharge	River/ Stream	Spring	Evapo- transpiration	Pumping	Storage
Fort Bend						
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 C14 Water budget for Goliad County.

County/ Year	Recharge	River/ Stream	Spring	Evapo- transpiration	Pumping	Storage
Goliad						
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 C15 Water budget for Gonzales County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Gonzales							
1980	3533	-79834	155423	0	-56780	0	0
1981	31818	-81072	143761	0	-60144	0	-11162
1982	3109	-79600	151548	0	-57440	0	4682
1983	8527	-77767	149124	0	-57816	0	-493
1984	2436	-78325	152359	0	-57236	0	2387
1985	13265	-76681	146770	0	-58554	0	-3389
1986	8603	-72979	144148	0	-58934	0	-622
1987	20821	-80704	145638	0	-59212	0	-3516
1988	418	-77381	151306	0	-57469	0	4704
1989	2186	-78079	152279	0	-56929	0	2188
1990	2079	-64721	141483	0	-59481	0	-1384
1991	32519	-83662	144051	0	-60216	0	-8274
1992	36304	-79070	137929	0	-62013	0	-9860
1993	12177	-81580	147016	0	-58751	0	4982
1994	20296	-76772	140931	0	-60019	0	-2371
1995	3179	-81959	152342	0	-57230	0	7278
1996	2348	-78425	151995	0	-57081	0	3178
1997	31377	-80222	141823	0	-60117	0	-9518
1998	35497	-80017	137780	0	-61787	0	-7945
1999	987	-42680	117378	0	-63717	0	3079
2000	20517	-81431	141305	0	-60171	0	2333
2001	16945	-77767	142223	0	-59771	0	558
2002	42237	-68682	126059	0	-65247	0	-12816
2003	9895	-73086	136778	0	-60634	0	7555
2004	37851	-75411	131853	0	-62480	0	-8037
2005	3295	-78190	144712	0	-58101	0	10439
2006	1272	-42628	118671	0	-62776	0	387
2007	39917	-80217	133719	0	-62283	0	-7485
2008	690	-80013	148922	0	-57802	0	10885
2009	16838	-79654	145229	0	-58997	0	-573
2010	15716	-71406	138145	0	-60568	0	-1529
2011	562	-69417	141891	0	-59436	0	5411
2012	6576	-71199	142049	0	-59697	0	1618
2013	5154	-77399	147989	0	-57849	0	3216
2014	6804	-81024	152211	0	-57169	-5	2037
2015	39857	-76964	136003	0	-62263	-5	-14396

Table C16 Water budget for Grimes County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Grimes							
1980	65	-179380	98958	0	-58	0	0
1981	337	-178682	99578	0	-44	0	36
1982	128	-178957	98677	0	-58	0	-34
1983	374	-179737	97777	0	-70	0	-29
1984	137	-179260	99510	0	-50	0	48
1985	200	-179034	98835	0	-55	0	-13
1986	236	-179218	98683	0	-57	0	-5
1987	181	-179353	97180	0	-81	0	-54
1988	9	-176583	101293	0	-30	0	133
1989	71	-178721	98728	0	-58	0	-79
1990	74	-179156	97729	0	-74	0	-36
1991	347	-179725	97968	0	-68	0	13
1992	359	-180090	98738	0	-60	0	18
1993	340	-179156	99135	0	-50	0	23
1994	417	-179699	98264	0	-62	0	-29
1995	152	-165576	103555	0	-11	0	171
1996	34	-170326	103043	0	-15	0	-23
1997	357	-178851	99151	0	-50	0	-116
1998	330	-179517	98261	0	-63	0	-31
1999	18	-175633	101198	0	-28	0	98
2000	199	-179097	99590	0	-49	0	-63
2001	356	-179489	98445	0	-60	0	-28
2002	416	-178474	94313	0	-138	0	-150
2003	220	-176787	100888	0	-31	0	234
2004	420	-179450	99650	0	-48	0	-51
2005	50	-177779	99967	0	-41	0	17
2006	186	-178837	98979	0	-53	0	-33
2007	405	-179658	98441	0	-63	0	-17
2008	225	-179721	98905	0	-58	0	6
2009	343	-179345	98818	0	-55	0	8
2010	58	-178890	98653	0	-59	0	-9
2011	10	-178767	98744	0	-58	0	2
2012	134	-179615	98559	0	-64	0	-14
2013	285	-178461	99672	0	-43	0	51
2014	342	-179352	98649	0	-57	0	-36
2015	439	-164566	84067	0	-679	0	-543

Table C17 Water budget for Hidalgo County.

County/ Year	Recharge	River/ Stream	Spring	Evapo- transpiration	Pumping	Diversion from Rio Grande	Irrigation Return Flow	Storage
Hidalgo								
1980	10218	403242	0	-476525	-6063	-412432	84802	0
1981	54599	409928	0	-482230	-5994	-285730	60868	-26778
1982	5081	400533	0	-479141	-6265	-425959	90001	12469
1983	23852	399924	0	-477264	-5747	-347138	73906	3384
1984	8504	406963	0	-471384	-5999	-334159	68233	10573
1985	20958	408209	0	-464870	-5925	-262943	54924	6259
1986	10501	409605	0	-465211	-7716	-320888	65814	754
1987	15628	410721	0	-463993	-7186	-287796	60689	2256
1988	6578	411587	0	-469809	-8759	-384171	80654	-6108
1989	2014	402307	0	-477185	-8328	-505307	103429	-6709
1990	3878	404384	0	-473069	-8040	-427166	83657	7287
1991	28812	402513	0	-475331	-6878	-356378	71943	-3866
1992	37689	415191	0	-475587	-6862	-251637	53515	-14293
1993	22739	400429	0	-476738	-7063	-379473	77288	4978
1994	7705	407618	0	-471043	-8545	-360329	71744	7341
1995	10674	406169	0	-468719	-8989	-349535	71497	9177
1996	2599	412316	0	-465913	-9894	-354692	72612	8913
1997	26017	414639	0	-460977	-9907	-243514	48214	4750
1998	13484	419219	0	-458694	-11146	-274856	54088	2637
1999	10401	422002	0	-455080	-12834	-260327	51817	5916
2000	3407	425173	0	-456320	-11311	-292570	57677	3318
2001	6217	423193	0	-455171	-9387	-289777	56353	4409
2002	28067	421892	0	-458765	-9693	-249332	49632	-5963
2003	85815	410346	0	-470565	-8077	-213567	41560	-34413
2004	37271	409685	0	-466542	-8511	-225421	44042	9918
2005	5906	416139	0	-464498	-8780	-359887	68787	-1112
2006	44033	409895	0	-476418	-8483	-372771	70637	-18195
2007	34596	417045	0	-470195	-8394	-228975	45150	2363
2008	52920	408897	0	-480562	-8224	-325128	62830	-16794
2009	8248	412812	0	-473709	-11538	-394321	75704	7840
2010	96107	429439	0	-495032	-4116	-231996	45777	-71404
2011	1340	412888	0	-475744	-3926	-310461	59985	45281
2012	3818	417862	0	-470626	-3955	-311311	60149	14297
2013	18588	415989	0	-471857	-4690	-310461	59985	3584
2014	28232	412831	0	-474363	-5378	-310461	59985	372
2015	218136	371553	0	-535808	-5459	-310461	59985	-87907

Table C18 Water budget for Jackson County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Jackson							
1980	56488	85412	67	0	-108198	-60054	0
1981	254727	-79626	42	0	-106942	-43042	-44976
1982	78803	-68020	66	0	-89322	-55922	106522
1983	226187	-33585	51	0	-99327	-47737	-67634
1984	102834	-10809	56	0	-96401	-53030	31244
1985	108141	-14371	62	0	-93145	-49567	21330
1986	128522	-31972	62	0	-89963	-50792	16018
1987	124319	-49504	72	0	-85274	-49525	29084
1988	4435	119776	75	0	-95473	-60284	-2346
1989	22854	84499	72	0	-96432	-57490	12844
1990	56129	24005	73	0	-88512	-54416	29875
1991	274630	-47794	47	0	-96034	-43934	-111563
1992	286394	-96825	41	0	-102360	-42916	-66179
1993	219147	-87443	56	0	-99746	-47436	-9138
1994	221527	-102724	64	0	-95982	-49117	-2604
1995	134922	-52181	60	0	-95461	-49588	31538
1996	40261	68180	70	0	-102554	-56476	18970
1997	287062	-112443	42	0	-103901	-41643	-53835
1998	265442	-153384	48	0	-97566	-45937	7122
1999	18198	-7347	73	0	-90614	-54681	100976
2000	137654	46511	65	0	-103292	-48132	-64639
2001	207228	-72509	52	0	-100495	-43335	-18166
2002	283036	-85188	41	0	-108688	-38610	-72086
2003	197486	-71385	52	0	-108085	-36931	-3136
2004	290403	-214891	40	0	-95792	-47900	44592
2005	87941	-73467	67	0	-88378	-46663	88515
2006	143598	-1598	60	0	-96667	-37102	-38079
2007	287023	-166418	42	0	-93282	-37048	-15581
2008	37991	24070	69	0	-98154	-39496	43972
2009	60428	42502	69	0	-100315	-49465	13115
2010	205019	-28860	43	0	-105542	-44962	-50499
2011	2052	64489	70	0	-99573	-89806	88503
2012	160807	21472	59	0	-104077	-52283	-54867
2013	61189	79803	67	0	-105029	-99743	27400
2014	91162	56762	66	0	-104317	-73546	-5442
2015	276799	-80043	45	0	-105317	-41840	-77245

Table C19 Water budget for Jim Hogg County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Jim Hogg							
1980	6317	143098	-22352	0	-8138	-1314	0
1981	37987	140519	-30364	0	-8115	-1129	-21813
1982	2809	142043	-24513	0	-8117	-1405	6440
1983	7039	142260	-23672	0	-8123	-1285	1065
1984	2578	143278	-22455	0	-8161	-1384	3776
1985	23772	145825	-31255	0	-8398	-1320	-11349
1986	4134	142080	-24444	0	-8127	-1221	4923
1987	17568	145378	-29371	0	-8370	-1161	-6523
1988	3055	143858	-24915	0	-8200	-1290	5299
1989	1855	142297	-22116	0	-8122	-1010	4563
1990	3836	133157	-16906	0	-7492	-1313	6012
1991	18860	146266	-27364	0	-8269	-1410	-10599
1992	22159	141388	-27874	0	-8161	-1598	-8173
1993	11151	141506	-25868	0	-8130	-1480	228
1994	4121	141909	-23449	0	-8121	-1450	4418
1995	9580	121182	-7668	0	-6665	-1392	2118
1996	1363	147414	-23481	0	-8376	-1716	2530
1997	9322	140878	-22752	0	-8090	-1074	-927
1998	7823	141860	-23081	0	-8112	-1604	430
1999	4485	113639	535	0	-6481	-1504	6352
2000	2723	147103	-22037	0	-8261	-1653	-212
2001	4617	103136	9987	0	-6394	-1712	7603
2002	15131	138963	-17880	0	-7776	-1566	-9381
2003	107554	139903	-57058	0	-8243	-1361	-62946
2004	17005	140374	-38662	0	-8171	-1369	7966
2005	2357	142933	-30736	0	-8144	-1698	11890
2006	8433	145394	-30304	0	-8367	-1709	5190
2007	17592	137475	-24926	0	-7936	-1678	-4090
2008	7007	141534	-25088	0	-8134	-1800	2670
2009	2269	141884	-23806	0	-8138	-1354	6166
2010	35551	136645	-28330	0	-8089	-1524	-17874
2011	683	140443	-24316	0	-8124	-1618	10741
2012	2695	144562	-25756	0	-8230	-1529	7788
2013	6047	132237	-16888	0	-7469	-1555	6699
2014	7622	143245	-23510	0	-8157	-1391	-184
2015	31800	106751	-3802	0	-6497	-1345	-10828

Table C20 Water budget for Jim Wells County.

County/ Year	Recharge	River/ Stream	Spring	Evapo- transpiration	Pumping	Storage
Jim Wells						
1980	15218	71962	0	-15815	-8287	0
1981	125784	58597	0	-16426	-6664	-97788
1982	2988	64818	0	-16101	-8424	20690
1983	13065	68497	0	-15782	-7795	6565
1984	5653	65611	0	-15994	-8392	17553
1985	54853	66274	0	-16365	-7885	-31995
1986	7963	67226	0	-16203	-8201	14398
1987	20909	66343	0	-16104	-7400	1490
1988	3469	69740	0	-16269	-7971	16564
1989	1429	70280	0	-15967	-7952	18056
1990	6149	68221	0	-15435	-7980	14249
1991	37422	68688	0	-16067	-7202	-17869
1992	57110	67264	0	-16412	-7573	-35525
1993	19045	68388	0	-16106	-7721	1157
1994	18454	67306	0	-16089	-8036	2368
1995	10832	75450	0	-16231	-7959	2080
1996	1699	73787	0	-16118	-8873	14520
1997	35307	68655	0	-16189	-7599	-15668
1998	14207	68854	0	-16071	-8006	5612
1999	7483	68392	0	-16574	-8625	13274
2000	4628	70274	0	-16162	-8161	13572
2001	15877	69123	0	-15825	-6872	2825
2002	66055	60185	0	-16074	-7119	-38858
2003	46141	67843	0	-16442	-6991	-26251
2004	57121	138448	0	-23304	-7305	-97681
2005	5063	64708	0	-16877	-8034	22212
2006	16568	58558	0	-16259	-8299	16613
2007	103391	116381	0	-22905	-6661	-120397
2008	4988	58231	0	-16829	-6191	29561
2009	4708	56535	0	-16340	-6655	31070
2010	199146	38425	0	-17583	-5625	-143053
2011	1318	50180	0	-16945	-5478	42547
2012	3169	53149	0	-16698	-5290	36970
2013	28230	55654	0	-16801	-5780	10298
2014	23277	55414	0	-16652	-5507	14991
2015	187388	33181	0	-17649	-5509	-125609

Table C21 Water budget for Karnes County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Karnes							
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 C22 Water budget for Kenedy County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Kenedy							
1980	12789	-4557	24553	0	-137231	-371	0
1981	96071	-7869	22619	0	-158352	-352	-55892
1982	6222	-6291	23799	0	-145474	-389	17490
1983	28273	-4107	23585	0	-147264	-357	-4586
1984	11218	-6353	23928	0	-143002	-378	9873
1985	36296	-6868	23485	0	-147169	-310	-9596
1986	13986	-6045	23798	0	-143519	-325	7723
1987	35222	-4863	23153	0	-147578	-332	-9516
1988	5986	-6277	23971	0	-141773	-366	13954
1989	3508	-5061	24269	0	-138260	-333	11410
1990	4493	-4930	24456	0	-136719	-336	8453
1991	50098	-4947	22943	0	-148005	-303	-23198
1992	84990	-7495	21619	0	-162280	-256	-38626
1993	90421	-8492	20608	0	-170830	-277	-31978
1994	12398	-7262	22372	0	-154058	-260	24244
1995	65650	-7120	21665	0	-163487	-256	-17689
1996	3464	-6744	23040	0	-149811	-283	27391
1997	116131	-7709	19213	0	-177541	-258	-47850
1998	71636	-7704	20049	0	-174851	-347	-7148
1999	22827	-7161	21732	0	-160060	-357	22281
2000	4717	-6524	22889	0	-149844	-362	26662
2001	11515	-6334	23247	0	-146142	-333	15117
2002	97342	-7501	20905	0	-172965	-340	-37872
2003	122706	-7890	19584	0	-185815	-221	-48035
2004	52472	-7605	20181	0	-175130	-225	10316
2005	7636	-6836	22013	0	-156786	-793	33103
2006	101779	-8139	20329	0	-179076	-730	-33796
2007	94954	-7953	19597	0	-187017	-570	-17658
2008	46340	-7129	21023	0	-175221	-1026	15395
2009	13956	-6593	22006	0	-159224	-861	29227
2010	108512	-9558	21256	0	-181920	-929	-38231
2011	2509	-7679	22689	0	-157908	-936	38741
2012	5339	-6980	23321	0	-149896	-843	25425
2013	36298	-7349	22803	0	-153374	-740	-534
2014	46978	-6974	21861	0	-157923	-725	-5388
2015	314037	-13874	14207	0	-250124	-730	-158591

Table C23 Water budget for Kleberg County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Kleberg							
1980	14847	-41308	1887	0	-90264	-6490	0
1981	138414	-75282	1752	0	-99123	-6200	-72551
1982	3577	-65816	1861	0	-91949	-6729	39377
1983	31723	-59711	1815	0	-93705	-6622	7464
1984	6157	-34794	1876	0	-91495	-6670	3822
1985	81689	-75696	1779	0	-97132	-6000	-21070
1986	17629	-63727	1828	0	-93663	-6314	23843
1987	21754	-39928	1838	0	-93197	-5922	-4786
1988	3650	-59259	1883	0	-90257	-6161	26252
1989	2434	-51740	1892	0	-88669	-6107	17039
1990	3767	-48783	1896	0	-87947	-6123	11393
1991	74674	-51446	1663	0	-98667	-5371	-36587
1992	91738	-51553	1660	0	-102780	-5288	-45844
1993	104992	-59025	1638	0	-108315	-5716	-40513
1994	16878	-48828	1794	0	-99343	-5624	20898
1995	39628	-67307	1789	0	-98427	-6036	14805
1996	2396	-51404	1867	0	-93113	-6512	25791
1997	143726	-56628	1440	0	-118139	-6375	-65779
1998	35773	-50346	1667	0	-107084	-6619	16117
1999	22098	-49985	1783	0	-99931	-6504	17219
2000	4394	-41337	1854	0	-95563	-6920	18101
2001	22790	-47985	1835	0	-94885	-7008	6141
2002	72989	-54236	1601	0	-103361	-6693	-22492
2003	54509	-55034	1652	0	-102202	-6577	-5504
2004	60750	-54098	1615	0	-106072	-5850	-5805
2005	7596	-38900	1807	0	-97894	-7902	18410
2006	56755	-67114	1818	0	-97780	-7074	-2650
2007	105788	-72645	1700	0	-104034	-7050	-34525
2008	9070	-52234	1824	0	-96850	-5938	27476
2009	5096	-58600	1862	0	-92365	-5961	30101
2010	124617	-80433	1801	0	-98725	-6410	-56881
2011	1411	-56677	1870	0	-92958	-6616	32205
2012	3887	-45997	1887	0	-91686	-5254	15241
2013	25249	-63232	1874	0	-91749	-5590	11797
2014	40553	-55465	1836	0	-94126	-5760	-7220
2015	214238	-76054	1412	0	-120450	-4622	-115420

Table C24 Water budget for Lavaca County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Lavaca							
1980	38208	-105875	182678	0	-90098	-10659	0
1981	297080	-274081	138887	0	-84030	-9319	-57993
1982	63896	-204736	183852	0	-81966	-10916	64546
1983	140695	-186732	173108	0	-84388	-10151	-17173
1984	60497	-89780	165927	0	-89855	-10914	-13884
1985	136401	-205449	173034	0	-86391	-10118	3265
1986	106684	-128711	153798	0	-89339	-10068	-18105
1987	149470	-316289	170918	0	-78518	-10318	86696
1988	5403	-67800	167597	0	-87526	-11362	3614
1989	37070	-67623	164343	0	-89374	-11168	-15311
1990	27398	-65005	167853	0	-90224	-10776	-6900
1991	270596	-153152	126841	0	-93238	-9218	-127438
1992	308779	-378355	168683	0	-84023	-9131	3005
1993	188439	-261252	172607	0	-86142	-9809	-2967
1994	254359	-242267	148293	0	-90480	-10028	-54515
1995	63361	-148458	162345	0	-90555	-10162	36573
1996	30167	-92094	162540	0	-93294	-11313	22191
1997	324668	-402544	199243	0	-82702	-9251	-18525
1998	307503	-392693	191386	0	-82188	-9922	-6031
1999	12029	-125086	173228	0	-89886	-10834	44391
2000	202522	-129694	128425	0	-95829	-10089	-83530
2001	191414	-227725	156134	0	-91800	-10615	-4775
2002	305204	-259737	128800	0	-95102	-10519	-57799
2003	165632	-193776	142689	0	-96341	-9289	6885
2004	311519	-400709	83431	0	-75784	-10326	91761
2005	65509	-273468	179152	0	-77660	-10876	122383
2006	37748	-45540	164267	0	-91646	-9050	-42388
2007	315273	-392009	112665	0	-75919	-8553	40889
2008	8779	-141170	164534	0	-80604	-10695	57482
2009	139084	-113147	151374	0	-87784	-8393	-80657
2010	135329	-161623	162423	0	-88794	-10090	-33867
2011	3614	-67300	165779	0	-92380	-14391	11158
2012	59298	-80868	157515	0	-93940	-14007	-22204
2013	89159	-85092	156654	0	-96097	-11755	-42776
2014	66262	-85082	155200	0	-97037	-11869	-17746
2015	314175	-256365	132924	0	-94498	-10099	-76202

Table C25 Water budget for Live Oak County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Live Oak							
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 C26 Water budget for Matagorda County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Matagorda							
1980	90229	164990	9273	0	-334842	-32721	0
1981	377023	44094	7203	0	-370561	-22817	-130487
1982	134571	86604	8815	0	-338513	-28392	1057
1983	348404	66103	7310	0	-366723	-25572	-94209
1984	269483	99473	7957	0	-367144	-27717	-70509
1985	180966	71549	7753	0	-358386	-26170	37782
1986	308493	118742	7482	0	-374648	-26611	-72529
1987	148154	70110	8831	0	-347279	-25157	57758
1988	17249	108507	9355	0	-326953	-29801	74517
1989	124126	130975	9073	0	-335937	-31177	-4523
1990	165985	76844	8909	0	-342886	-29685	-27118
1991	387273	67690	7009	0	-377618	-26717	-101885
1992	385229	-22422	7003	0	-393181	-26960	-19169
1993	303228	-10160	7330	0	-384040	-30058	19938
1994	191043	65534	8128	0	-350893	-32206	19783
1995	316795	33488	8312	0	-384818	-32848	-69337
1996	95163	175183	9906	0	-343760	-36657	45241
1997	388506	-20209	6953	0	-386732	-28128	-24470
1998	337865	-310	7139	0	-391367	-28457	1320
1999	38144	143321	10160	0	-347489	-31736	88779
2000	168631	119684	9884	0	-348450	-27951	-3258
2001	281223	49133	8690	0	-365124	-23251	-34998
2002	378236	17394	7275	0	-388276	-22299	-40289
2003	317152	76441	8228	0	-392872	-48618	-34705
2004	389984	-46094	6936	0	-405286	-39434	0
2005	107419	135182	9075	0	-365424	-36663	70950
2006	337608	82079	7787	0	-391798	-38997	-60826
2007	389487	-52347	6848	0	-406958	-22231	-19570
2008	53116	113244	9161	0	-356923	-28842	115800
2009	130369	120397	9072	0	-353965	-51687	57840
2010	346776	54927	7959	0	-381816	-27886	-77351
2011	8818	165017	10480	0	-335813	-56237	111647
2012	291293	122556	8867	0	-365004	-37720	-69854
2013	177029	25192	8904	0	-353826	-40100	60752
2014	172446	133314	9233	0	-354257	-39586	3020
2015	383768	8722	7716	0	-377541	-42452	-67429

Table C27 Water budget for McMullen County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
McMullen							
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 C28 Water budget for Nueces County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Nueces							
1980	20777	-16512	8103	0	-81364	-3228	0
1981	142679	-35192	6420	0	-88333	-2731	-86773
1982	3778	-20360	7913	0	-83895	-2819	25946
1983	40464	-23555	7342	0	-84784	-2671	-2866
1984	12650	-21451	8031	0	-82911	-2773	15944
1985	97531	-31655	7665	0	-86546	-2225	-49532
1986	17298	-23250	7841	0	-85237	-1541	18266
1987	27383	-27685	7907	0	-85018	-1405	10678
1988	4237	-16545	8192	0	-84600	-1743	20324
1989	2303	-17520	8256	0	-82303	-1710	20408
1990	6513	-15351	8176	0	-82792	-1710	14004
1991	105574	-25780	7082	0	-86995	-1718	-57366
1992	80860	-30588	6709	0	-89062	-1665	-26261
1993	70498	-31331	6951	0	-86829	-1755	-17627
1994	25502	-28298	7836	0	-84570	-1921	15323
1995	40932	-25355	7711	0	-86308	-1668	-385
1996	3210	-17049	8145	0	-83244	-1609	22465
1997	151882	-40519	6155	0	-91746	-1586	-76389
1998	39414	-33514	7166	0	-87160	-1637	16911
1999	20162	-19016	7724	0	-90512	-1902	19688
2000	6212	-24313	7949	0	-85048	-1464	29483
2001	32321	-27541	7938	0	-83681	-1396	5894
2002	141988	-37190	6160	0	-89557	-1591	-71808
2003	45867	-32267	7424	0	-87850	-4084	9071
2004	95375	-41293	6126	0	-92643	-4438	-17964
2005	9152	-29516	7736	0	-86283	-4579	37585
2006	14484	-26912	7347	0	-84786	-4148	26211
2007	97939	-39228	6500	0	-88771	-3950	-36148
2008	8240	-26171	7875	0	-84776	-4691	29150
2009	5117	-22394	8036	0	-83211	-4660	26021
2010	134936	-39631	7027	0	-89251	-6207	-73546
2011	1352	-27656	8005	0	-84792	-5298	38716
2012	5193	-23727	8118	0	-83423	-4818	27530
2013	14571	-22700	8115	0	-83701	-5563	17155
2014	39097	-25996	8104	0	-83143	-5147	-4048
2015	196692	-45624	6241	0	-94102	-5104	-114011

Table C29 Water budget for Refugio County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Refugio							
1980	50862	9967	578	0	-96474	-2271	0
1981	253696	-54194	387	0	-111991	-1961	-113940
1982	12673	-2195	560	0	-99559	-2148	57203
1983	176712	-37623	430	0	-107057	-1878	-60605
1984	24606	-5239	555	0	-99200	-1940	47999
1985	78080	-5814	498	0	-100328	-1731	-3766
1986	80808	-6799	560	0	-101172	-1749	-4414
1987	45485	-5143	567	0	-98959	-1749	26872
1988	2864	21811	634	0	-95044	-1769	35290
1989	6200	23600	654	0	-93193	-1812	26607
1990	53778	10604	624	0	-94887	-1641	-7567
1991	169560	-27426	480	0	-106508	-1482	-64776
1992	203199	-49679	429	0	-113430	-1466	-65680
1993	158881	-51162	451	0	-112309	-1486	-19848
1994	66881	-23009	553	0	-103934	-1573	31253
1995	38805	-4579	567	0	-100255	-1638	36903
1996	5119	8284	632	0	-95632	-1822	48050
1997	245437	-56982	404	0	-111874	-1570	-102232
1998	156839	-48907	448	0	-111875	-1701	-21151
1999	20296	-7411	573	0	-99645	-1687	53849
2000	25159	1640	594	0	-97865	-1578	37461
2001	67312	-4385	581	0	-98504	-1541	2058
2002	205716	-46665	427	0	-111728	-1661	-73393
2003	145959	-48360	462	0	-110296	-1399	-13665
2004	198595	-73504	396	0	-117324	-1393	-30247
2005	34768	-19688	540	0	-104706	-2054	62794
2006	61818	-11875	528	0	-105035	-2145	25120
2007	240186	-70845	376	0	-117479	-1848	-73256
2008	6475	-5781	566	0	-101392	-2258	71715
2009	42550	258	581	0	-100943	-1815	27066
2010	202157	-51150	413	0	-110966	-1779	-66453
2011	2096	5256	605	0	-98625	-2725	59544
2012	37902	4859	594	0	-98766	-2040	23185
2013	31341	14302	635	0	-96084	-2020	15309
2014	33287	13066	634	0	-96179	-1864	14534
2015	239982	-56388	439	0	-110608	-1593	-100819

Table C30 Water budget for San Patricio County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
San Patricio							
1980	43547	-15190	-43	0	-61416	-7302	0
1981	195717	-30439	-224	0	-72941	-5777	-118122
1982	4958	-17542	-108	0	-64970	-7053	47387
1983	109216	-27774	-159	0	-68365	-6433	-40163
1984	15135	-18083	-89	0	-64256	-6863	36590
1985	121446	-29501	-129	0	-68563	-6516	-50626
1986	15794	-16108	-95	0	-65085	-6732	35242
1987	35136	-17397	-83	0	-64315	-6657	15567
1988	3460	-2113	-44	0	-62143	-7578	28427
1989	1748	-11057	-24	0	-60045	-7351	34867
1990	10449	-1095	-18	0	-59882	-7091	15366
1991	106221	-12080	-170	0	-66941	-5998	-57968
1992	125266	-29409	-183	0	-69535	-5922	-54651
1993	67048	-29571	-179	0	-67913	-6442	2541
1994	23834	-19659	-106	0	-64696	-6555	28955
1995	31282	-19338	-100	0	-64782	-6779	20510
1996	2303	-11283	-50	0	-61422	-7517	36060
1997	170481	-29001	-234	0	-72064	-6027	-96325
1998	62052	-26694	-183	0	-69044	-8707	6225
1999	25502	5592	-126	0	-68676	-9238	9793
2000	9628	-15868	-80	0	-63899	-8112	38056
2001	22104	-15458	-68	0	-62683	-7525	22375
2002	140762	-29495	-250	0	-71805	-7276	-65690
2003	75827	-18328	-178	0	-69459	-10144	-13230
2004	117106	-35357	-250	0	-73110	-11164	-30959
2005	10617	-20176	-133	0	-66169	-11965	49252
2006	11378	-1684	-92	0	-64046	-12607	26516
2007	131852	-35134	-186	0	-70684	-8271	-54863
2008	6886	-18141	-95	0	-64838	-16581	50779
2009	8379	-13641	-59	0	-62250	-12848	36675
2010	177928	-31222	-167	0	-72558	-9963	-99746
2011	1430	-16998	-81	0	-64762	-19552	57143
2012	14178	-12883	-69	0	-63217	-17013	34529
2013	18824	-7832	-42	0	-61874	-9135	16549
2014	37394	-13117	-43	0	-61934	-10346	5733
2015	188136	-30560	-218	0	-74146	-9034	-108158

Table C31 Water budget for Starr County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	From Rio Grande Upstream	Pumping	Storage
Starr								
1980	4347	165155	-55291	0	-53654	1314858	-629	0
1981	26924	160597	-58707	0	-53954	1567429	-644	-15090
1982	2221	163951	-56186	0	-53594	1347127	-673	4661
1983	8183	164092	-56895	0	-53589	1144829	-682	-795
1984	2757	167743	-58198	0	-53651	1033179	-718	2280
1985	11190	292260	-156882	0	-55982	767135	-723	-29341
1986	4442	163821	-74324	0	-53583	1141402	-698	18957
1987	8067	238315	-118868	0	-54623	879828	-849	-11543
1988	2744	179369	-79584	0	-53883	1261520	-846	11027
1989	1637	164991	-61051	0	-53587	1586206	-601	7566
1990	2911	150374	-45826	0	-53355	1301614	-634	7159
1991	9143	225710	-102127	0	-54369	1207336	-633	-17712
1992	13658	164362	-66717	0	-53967	1671800	-648	2078
1993	7802	168405	-62868	0	-53682	1324969	-542	1586
1994	3005	134944	-57205	0	-52312	1302440	-583	31454
1995	3489	80401	10362	0	-48751	938076	-601	15892
1996	1297	232194	-89709	0	-53669	690742	-745	-28962
1997	9685	154593	-54128	0	-53023	502274	-841	3815
1998	6965	155478	-54669	0	-52683	743948	-969	4460
1999	5073	29520	26449	0	-45901	678494	-997	45683
2000	1689	205170	-70156	0	-52301	737271	-655	-24475
2001	3173	50484	29671	0	-47805	572926	-988	25664
2002	22342	138561	-20469	0	-51959	533536	-1269	-27669
2003	61511	177338	-70049	0	-53804	538745	-803	-54523
2004	20453	134475	-42874	0	-52890	286527	-858	2567
2005	2411	193501	-77537	0	-53582	813461	-1137	-5806
2006	7901	282671	-152846	0	-55867	829685	-1110	-20961
2007	17407	122356	-47136	0	-52466	816566	-1136	20957
2008	33020	163213	-61665	0	-53930	1018176	-1129	-19640
2009	5216	167120	-61592	0	-53595	1086333	-1072	4006
2010	24848	157194	-57003	0	-53985	3045644	-1293	-13746
2011	482	164322	-56760	0	-53554	1328109	-1346	11342
2012	2985	216440	-96179	0	-54259	1328109	-1162	-7342
2013	8248	120807	-32662	0	-52552	1328109	-1251	17908
2014	4455	173057	-58683	0	-53585	1328109	-1265	-3758
2015	45855	21045	30401	0	-46965	1328109	-1295	11482

Table C32 Water budget for Victoria County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Storage
Victoria							
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 C33 Water budget for Waller County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Waller							
1980	411	-156885	49277	0	-431	0	0
1981	1534	-160607	48869	0	-427	0	-1
1982	722	-159274	48995	0	-433	0	-11
1983	1554	-162121	48634	0	-452	0	-50
1984	486	-159692	49225	0	-423	0	76
1985	1252	-161426	48914	0	-432	0	-29
1986	1322	-162336	48805	0	-435	0	-6
1987	1102	-162724	48724	0	-454	0	-48
1988	30	-158844	49544	0	-400	0	151
1989	477	-159225	49087	0	-430	0	-89
1990	321	-158585	49077	0	-433	0	-7
1991	1947	-164200	48602	0	-448	0	-37
1992	2022	-166929	48718	0	-444	0	7
1993	1755	-166661	48746	0	-430	0	29
1994	1760	-167241	48532	0	-448	0	-44
1995	732	-162347	49410	0	-375	0	238
1996	190	-159310	49748	0	-379	0	-9
1997	1930	-165051	48751	0	-427	0	-174
1998	1937	-167093	48566	0	-447	0	-50
1999	63	-160527	49363	0	-396	0	143
2000	1120	-163107	49118	0	-415	0	-57
2001	1831	-166122	48627	0	-445	0	-80
2002	2065	-168754	48101	0	-525	0	-171
2003	901	-163939	49071	0	-398	0	295
2004	1997	-164330	48874	0	-416	0	-32
2005	321	-160380	49173	0	-415	0	-8
2006	949	-162160	48980	0	-430	0	-42
2007	2018	-163258	48693	0	-423	0	35
2008	458	-160794	49091	0	-433	0	-35
2009	980	-161357	48855	0	-428	0	9
2010	278	-159494	49102	0	-431	0	-9
2011	28	-157894	49194	0	-430	0	8
2012	1335	-162363	49105	0	-439	0	-28
2013	1502	-163388	48833	0	-428	0	22
2014	1357	-163192	48768	0	-434	0	-13
2015	2157	-167380	47605	0	-603	0	-348

Table C34 Water budget for Washington County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Washington							
1980	23245	-780865	1088356	-172	-142671	-1512	0
1981	104842	-798102	1044142	-172	-144926	-1308	-20941
1982	47339	-781048	1058784	-172	-143401	-1459	5269
1983	110960	-780615	1020765	-174	-145660	-1427	-16417
1984	40062	-784790	1061902	-173	-143699	-1618	12574
1985	73125	-747053	1018175	-174	-144229	-1549	-13545
1986	128602	-787189	1005349	-175	-146393	-1599	-13491
1987	68125	-791179	1037699	-172	-145133	-1614	19842
1988	3206	-824000	1118676	-172	-142367	-1774	24186
1989	40113	-777776	1075262	-173	-142872	-1719	-7864
1990	28462	-759773	1065212	-173	-142641	-1729	-2264
1991	164623	-796536	1002376	-175	-148093	-1589	-33477
1992	167609	-797019	987073	-177	-149098	-1641	-20881
1993	123404	-736362	957243	-171	-147107	-1714	-12151
1994	162451	-784827	959948	-176	-148915	-1750	-1498
1995	61374	-864586	1066036	-174	-145811	-1844	44261
1996	21296	-744314	1044186	-172	-143197	-2062	-8634
1997	137035	-743300	962579	-176	-147118	-1833	-23507
1998	162674	-784698	965116	-177	-148725	-1871	-6959
1999	4585	-843513	1100815	-171	-143422	-2074	59417
2000	96250	-811601	1060967	-175	-145880	-1982	-13820
2001	147904	-784565	999507	-176	-147985	-1763	-27580
2002	175762	-789222	970554	-177	-150162	-1942	-14655
2003	67656	-805467	1039633	-175	-145461	-1639	22626
2004	171485	-677053	881285	-162	-151490	-1592	-50605
2005	23681	-797323	1042823	-171	-143731	-1606	56520
2006	62221	-762002	1031002	-173	-144641	-1661	-763
2007	149108	-692371	907313	-162	-150405	-1512	-34065
2008	35853	-781518	1038435	-171	-144270	-1301	37830
2009	100416	-781775	1018780	-174	-145458	-1318	-5732
2010	17895	-781115	1068961	-172	-142976	-1393	23498
2011	2951	-774657	1087467	-172	-142179	-1675	13141
2012	46165	-786019	1075913	-174	-143495	-1444	-4536
2013	76097	-795929	1053608	-174	-144172	-1397	-5261
2014	105883	-769297	1014838	-175	-145956	-1399	-18758
2015	186288	-704235	897718	-177	-151173	-1429	-38494

Table C35 Water budget for Webb County.

County/ Year	Recharge	River/ Stream	Yegua- Jackson	Spring	Evapo- transpiration	Pumping	Storage
Webb							
1980	1877	5039	13971	0	-5292	-109	0
1981	10497	4937	9743	0	-5626	-74	-4052
1982	770	5021	12892	0	-5319	-93	2152
1983	1147	5025	13629	0	-5272	-92	982
1984	589	5054	14308	0	-5256	-98	861
1985	8555	5790	10029	0	-5555	-125	-3241
1986	1140	5027	13044	0	-5325	-174	1714
1987	4012	5031	12299	0	-5354	-130	-445
1988	637	6857	12327	0	-5283	-151	1135
1989	451	5026	14256	0	-5230	-65	987
1990	1301	4614	14594	0	-5211	-66	250
1991	5022	5260	12305	0	-5407	-60	-1748
1992	5378	5030	11635	0	-5441	-72	-1062
1993	1884	5056	12928	0	-5298	-78	955
1994	1826	5022	13460	0	-5350	-87	566
1995	2364	8130	10784	0	-5441	-85	-310
1996	348	5604	13599	0	-5254	-97	1232
1997	2349	5321	13431	0	-5308	-108	-251
1998	1759	5018	13874	0	-5281	-107	166
1999	891	4906	14485	0	-5252	-115	512
2000	986	4764	14803	0	-5273	-105	278
2001	1206	4388	15091	0	-5256	-126	140
2002	4959	4940	12827	0	-5474	-128	-1700
2003	17758	4357	5861	0	-5540	-95	-6906
2004	7488	8654	4936	0	-5847	-154	465
2005	808	5207	11303	0	-5320	-204	3674
2006	1527	4435	13330	0	-5290	-173	1602
2007	7342	7887	8264	0	-5632	-89	-2257
2008	905	4758	13062	0	-5307	-151	2200
2009	860	4449	14333	0	-5253	-217	1240
2010	11785	4966	8904	0	-5674	-15	-4533
2011	280	4376	13177	0	-5325	-59	2962
2012	1065	4473	14083	0	-5311	-3	1158
2013	1807	4413	14184	0	-5319	-6	359
2014	3287	5092	12925	0	-5330	-2	-547
2015	15530	4806	6933	0	-5888	-2	-5952

Table C36 Water budget for Wharton County.

County/ Year	Recharge	River/ Stream	Spring	Evapo- transpiration	Pumping	Storage
Wharton						
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 C37 Water budget for Willacy County.

County/ Year	Recharge	River/ Stream	Gulf	Spring	Evapo- transpiration	Pumping	Irrigation Return Flow	Storage
Willacy								
1980	4882	9733	6738	0	-82144	-85	6722	0
1981	38644	9314	6598	0	-92998	-81	4204	-18129
1982	3073	9612	6709	0	-86241	-81	6665	6868
1983	11440	9656	6692	0	-85989	-80	5173	-300
1984	13505	9688	6624	0	-87375	-81	5572	-900
1985	8846	9811	6679	0	-84764	-80	4050	2138
1986	5844	9783	6692	0	-83438	-69	5255	2335
1987	20649	9693	6546	0	-87877	-70	4261	-5824
1988	3331	9790	6703	0	-84315	-70	6016	4957
1989	1454	9648	6712	0	-82995	-70	8046	3387
1990	1448	9709	6725	0	-81892	-69	7199	2860
1991	21436	9533	6601	0	-87628	-69	5622	-8562
1992	27214	9608	6556	0	-91692	-65	3833	-7964
1993	25837	9432	6514	0	-94434	-64	5905	-5122
1994	4968	9676	6647	0	-87716	-58	6078	7404
1995	20824	9461	6647	0	-90754	-60	5731	-4571
1996	1871	9782	6725	0	-85371	-60	5748	7772
1997	25866	9618	6520	0	-91007	-59	4198	-7359
1998	14184	9720	6571	0	-89262	-65	4676	1644
1999	4370	9883	6689	0	-84591	-61	4145	6181
2000	1660	9929	6732	0	-82360	-60	4981	5154
2001	2292	9932	6722	0	-81003	-98	4827	3353
2002	46271	9496	6588	0	-95356	-143	3941	-22851
2003	68838	8865	6547	0	-116247	-173	3205	-20016
2004	13490	9613	6620	0	-97916	-258	3454	12937
2005	3122	9718	6671	0	-88974	-934	6295	11084
2006	9223	9672	6683	0	-87528	-1217	6803	2407
2007	53250	9294	6416	0	-105098	-1385	3720	-17151
2008	55272	8810	6386	0	-112776	-2490	5521	-11412
2009	5077	9567	6627	0	-94504	-2504	6975	16008
2010	50905	9470	6502	0	-105693	-4666	3724	-11859
2011	1621	10096	6668	0	-89353	-5845	5346	17931
2012	2483	10302	6707	0	-84059	-6173	5360	10888
2013	17087	10118	6667	0	-86036	-6189	5346	-1318
2014	40401	9795	6437	0	-97225	-6343	5346	-10100
2015	146591	8069	6304	0	-153614	-5913	5346	-55119

Table C38 Water budget for Zapata County.

County/ Year	Recharge	Yegua- Jackson	Spring	Evapo- transpiration	Storage
Zapata					
1980	255	4371	0	-6209	0
1981	1591	3888	0	-6430	-628
1982	130	4315	0	-6225	204
1983	251	4295	0	-6196	75
1984	109	4370	0	-6181	123
1985	1174	4027	0	-6359	-416
1986	201	4295	0	-6220	151
1987	547	4203	0	-6255	-68
1988	121	4347	0	-6198	154
1989	85	4366	0	-6157	135
1990	229	4333	0	-6176	41
1991	625	4219	0	-6260	-158
1992	885	4114	0	-6341	-236
1993	304	4267	0	-6232	88
1994	196	4321	0	-6195	106
1995	292	4305	0	-6203	35
1996	71	4387	0	-6176	142
1997	385	4279	0	-6202	-35
1998	265	4327	0	-6196	31
1999	187	4348	0	-6175	67
2000	129	4396	0	-6180	78
2001	186	4372	0	-6169	37
2002	406	4299	0	-6210	-71
2003	3601	3011	0	-6705	-1491
2004	1329	3677	0	-6495	-89
2005	103	4198	0	-6241	374
2006	393	4175	0	-6248	118
2007	863	4057	0	-6353	-126
2008	359	4157	0	-6255	176
2009	56	4304	0	-6178	260
2010	802	4097	0	-6307	-152
2011	38	4328	0	-6188	262
2012	114	4339	0	-6185	165
2013	238	4294	0	-6179	83
2014	253	4315	0	-6191	58
2015	1715	3901	0	-6517	-666

Table C39 Water budget for Mexico.

Year	Recharge	River/ Stream	Yegua- Jackson	Mexico Upgradient	Gulf	Evapo- transpiration	From Rio Grande Upstream	Pumping	Rio Grande to Gulf	Diversio n from Rio Grande	Irrigation Return Flow	Storage
1980	6659	-16808	-1246	189440	7162	-371833	1314858	-17661	-124778	-1929062	126802	0
1981	41729	30523	-3040	190031	6740	-376248	1567429	-17546	-803832	-1105631	64913	-32993
1982	4941	-12838	-1959	190013	6931	-372032	1347127	-17994	-197581	-1858291	115583	25328
1983	23918	-20282	-1841	189212	6944	-371761	1144829	-18511	-124429	-1690372	112660	6410
1984	33129	-21757	-1371	189964	6791	-371633	1033179	-19031	-102739	-1515274	96934	9343
1985	16878	-27682	-1202	193189	6970	-351575	767135	-19623	-56724	-1184210	74130	30507
1986	14623	-23490	-1491	191031	7075	-363034	1141402	-20142	-65865	-1816289	127485	-14618
1987	28286	-20805	-1324	192826	6396	-356016	879828	-20487	-98943	-1277204	80079	11611
1988	6418	-5970	-1424	193825	6909	-358872	1261520	-21009	-215541	-1642507	101581	-9130
1989	3637	-13627	-1546	189784	7015	-374614	1586206	-21527	-139612	-2324838	154307	-20031
1990	3338	-16853	-1292	190444	7118	-368803	1301614	-22045	-118057	-1900317	125179	7116
1991	32129	-17672	-1459	188833	6865	-375358	1207336	-22560	-131005	-1775191	120998	-8168
1992	33967	24121	-2252	188270	6544	-391533	1671800	-23079	-708741	-1557837	113063	-39542
1993	17898	-25024	-1841	186750	6793	-386874	1324969	-23599	-94653	-2103938	148948	20861
1994	8954	-13701	-1498	187975	6924	-379122	1302440	-24119	-167977	-1867204	130767	6395
1995	21259	-27550	-1008	191311	6892	-361089	938076	-24638	-50315	-1434662	85697	34662
1996	4066	-19677	-482	199359	7121	-330904	690742	-25159	-82279	-842726	27371	48466
1997	37424	-19441	-526	200908	6926	-325913	502274	-25672	-100438	-563377	17793	18380
1998	10677	-13234	-919	202180	7017	-326075	743948	-26192	-130686	-926140	48321	4234
1999	7230	-11931	-744	204064	7090	-321242	678494	-26713	-144358	-793722	38084	12505
2000	3449	-6448	-562	206465	7101	-318424	737271	-26924	-181693	-777787	30046	9184
2001	4949	-7649	-313	208999	7094	-307993	572926	-26921	-170792	-485719	4110	22089
2002	30331	-7713	-674	209224	6633	-311564	533536	-27744	-183231	-431807	3799	1862
2003	67104	-22217	-2218	204277	6794	-331715	538745	-27789	-91734	-706291	39090	-23683
2004	56853	-46145	-1848	205430	6996	-321658	286527	-28702	-262	-465486	23710	17254

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Year	Recharge	River/ Stream	Yegua- Jackson	Mexico Upgradient	Gulf	Evapo- transpiration	From Rio Grande Upstream	Pumping	Rio Grande to Gulf	Diversio n from Rio Grande	Irrigation Return Flow	Storage
2005	5863	-31961	-1612	204460	7287	-321764	813461	-28774	-986	-1245981	72334	-7755
2006	16456	-26729	-1645	203427	7350	-324725	829685	-29171	-16428	-1230829	69105	-9021
2007	51238	-7329	-3206	200118	6927	-343698	816566	-30374	-203822	-967267	62946	-31460
2008	63795	-14826	-3612	195931	6694	-362039	1018176	-30484	-152022	-1379544	91535	-32639
2009	10251	-8077	-2343	197975	6920	-349470	1086333	-31065	-188546	-1337366	79166	8828
2010	80954	92006	-4435	190990	5899	-416260	3045644	-31366	-2184066	-1177679	85375	-125425
2011	2223	5177	-2194	194573	6511	-378173	1328109	-31493	-499900	-1360772	92005	72465
2012	3498	7857	-1714	196354	6725	-367396	1328109	-32267	-457222	-1361980	92005	15750
2013	20307	8393	-1761	195083	6716	-368140	1328109	-33564	-456966	-1360772	92005	252
2014	43484	7519	-1635	193285	6488	-376608	1328109	-37194	-457868	-1360772	92005	-7352
2015	180087	543	-3708	183190	6004	-419362	1328109	-38158	-464902	-1360772	92005	-75937