
Estimated Historical Water Use And 2012 State Water Plan Datasets: Goliad County Groundwater Conservation District

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February 5, 2013

APPENDIX D

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GROUNDWATER MANAGEMENT PLAN DATA:

This package of water data reports (part 1 of a 2-part package of information) is being provided to groundwater conservation districts to help them meet the requirements for approval of their five-year groundwater management plan. Each report in the package addresses a specific numbered requirement in the Texas Water Development Board's groundwater management plan checklist. The checklist can be viewed and downloaded from this web address:

<http://www.twdb.texas.gov/groundwater/docs/GCD/GMPchecklist0911.pdf>

The five reports included in part 1 are:

1. Estimated Historical Water Use (checklist Item 2)
from the TWDB Historical Water Use Survey (WUS)
2. Projected Surface Water Supplies (checklist Item 6)
3. Projected Water Demands (checklist Item 7)
4. Projected Water Supply Needs (checklist Item 8)
5. Projected Water Management Strategies (checklist Item 9)
reports 2-5 are from the 2012 State Water Plan (SWP)

Part 2 of the 2-part package is the groundwater availability model (GAM) report. The District should have received, or will receive, this report from the Groundwater Availability Modeling Section. Questions about the GAM can be directed to Dr. Shirley Wade, shirley.wade@twdb.texas.gov, (512) 936-0883.

DISCLAIMER:

The data presented in this report represents the most updated Historical Water Use and 2012 State Water Planning data available as of 2/5/2013. Although it does not happen frequently, neither of these datasets are static and are subject to change pending the availability of more accurate data (Historical Water Use data) or an amendment to the 2012 State Water Plan (2012 State Water Planning data). District personnel must review these datasets and correct any discrepancies in order to ensure approval of their groundwater management plan.

The Historical Water Use dataset can be verified at this web address:

<http://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates/>

The 2012 State Water Planning dataset can be verified by contacting Wendy Barron (wendy.barron@twdb.texas.gov or 512-936-0886).

For additional questions regarding this data, please contact Stephen Allen (stephen.allen@twdb.texas.gov or 512-463-7317) or Rima Petrossian (rima.petrossian@twdb.texas.gov or 512-936-2420).

Estimated Historical Water Use

TWDB Historical Water Use Survey (WUS) Data

Groundwater and surface water historical use estimates are currently unavailable for calendar years 2005, 2011 and 2012. TWDB staff anticipates the calculation and posting of these estimates at a later date.

APPENDIX C

GOLIAD COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	663	7	0	179	10	958	1,817
	SW	0	0	0	776	0	93	869
1980	GW	834	0	0	0	0	223	1,057
	SW	0	0	0	1,450	0	702	2,152
1984	GW	876	0	132	23	540	110	1,681
	SW	0	0	15,298	380	0	1,005	16,683
1985	GW	810	0	146	23	1	131	1,111
	SW	0	0	10,020	387	0	1,182	11,589
1986	GW	837	0	173	26	0	105	1,141
	SW	0	0	13,447	349	0	954	14,750
1987	GW	864	0	160	26	0	97	1,147
	SW	0	0	12,662	349	0	889	13,900
1988	GW	892	0	145	21	0	85	1,143
	SW	0	0	17,678	279	0	776	18,733
1989	GW	931	0	150	164	0	84	1,329
	SW	0	0	16,877	382	0	766	18,025
1990	GW	916	0	136	205	0	87	1,344
	SW	0	0	12,029	480	0	797	13,306
1991	GW	867	0	93	185	13	90	1,248
	SW	0	0	6,763	433	0	815	8,011
1992	GW	861	0	113	185	13	121	1,293
	SW	0	0	7,207	433	0	1,087	8,727
1993	GW	872	0	115	31	13	118	1,149
	SW	0	0	8,062	78	0	1,072	9,212
1994	GW	860	0	108	59	13	118	1,158
	SW	0	0	6,794	108	0	1,072	7,974
1995	GW	873	0	95	49	13	118	1,148
	SW	0	0	9,830	126	0	1,062	11,018
1996	GW	957	0	115	53	13	87	1,225
	SW	0	0	10,922	136	0	776	11,834
1997	GW	912	0	125	53	13	90	1,193

Estimated Historical Water Use and 2012 State Water Plan Dataset:

Goliad County Groundwater Conservation District

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Estimated Historical Water Use

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Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1997	SW	0	0	2,623	136	0	818	3,577
1998	GW	936	0	140	53	13	103	1,245
	SW	0	0	2,600	136	0	921	3,657
1999	GW	911	0	163	53	13	116	1,256
	SW	0	0	2,600	136	0	1,031	3,767
2000	GW	914	0	156	147	13	92	1,322
	SW	0	0	8,873	212	0	828	9,913
2001	GW	703	0	64	103	7	33	910
	SW	0	0	1,350	148	0	904	2,402
2002	GW	743	0	6	251	7	32	1,039
	SW	0	0	132	360	0	873	1,365
2003	GW	736	0	6	1,894	7	40	2,683
	SW	0	0	121	31	0	1,099	1,251
2004	GW	659	0	98	1,585	7	40	2,389
	SW	0	0	2,055	0	0	1,100	3,155
2006	GW	963	1	1,197	2,176	0	1,044	5,381
	SW	0	0	1,475	0	0	261	1,736
2007	GW	908	1	174	1,065	0	911	3,059
	SW	0	0	1,712	0	0	228	1,940
2008	GW	834	0	399	9,755	0	803	11,791
	SW	0	1	1,391	0	0	201	1,593
2009	GW	919	0	285	2,454	43	870	4,571
	SW	0	1	1,569	0	8	218	1,796
2010	GW	912	0	189	1,937	41	774	3,853
	SW	0	1	1,069	0	8	194	1,272

Projected Surface Water Supplies

TWDB 2012 State Water Plan Data

APPENDIX H

GOLIAD COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
L	IRRIGATION	SAN ANTONIO	SAN ANTONIO RIVER COMBINED RUN-OF- RIVER IRRIGATION	2,425	2,425	2,425	2,425	2,425	2,425
L	LIVESTOCK	GUADALUPE	LIVESTOCK LOCAL SUPPLY	101	101	101	101	101	101
L	LIVESTOCK	SAN ANTONIO	LIVESTOCK LOCAL SUPPLY	180	180	180	180	180	180
L	LIVESTOCK	SAN ANTONIO- NUECES	LIVESTOCK LOCAL SUPPLY	180	180	180	180	180	180
L	STEAM ELECTRIC POWER	GUADALUPE	CANYON LAKE/RESERVOIR	4,000	6,000	6,000	6,000	6,000	6,000
L	STEAM ELECTRIC POWER	GUADALUPE	COLETO CREEK LAKE/RESERVOIR	12,500	12,500	12,500	12,500	12,500	12,500
Sum of Projected Surface Water Supplies (acre-feet/year)				19,386	21,386	21,386	21,386	21,386	21,386

Projected Water Demands

TWDB 2012 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

APPENDIX I

GOLIAD COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
L	COUNTY-OTHER	GUADALUPE	286	330	357	374	388	399
L	STEAM ELECTRIC POWER	GUADALUPE	9,027	16,643	16,643	16,643	16,643	16,643
L	MINING	GUADALUPE	137	98	73	51	30	20
L	LIVESTOCK	GUADALUPE	202	202	202	202	202	202
L	IRRIGATION	GUADALUPE	43	37	32	28	24	21
L	IRRIGATION	SAN ANTONIO	256	222	193	166	144	124
L	LIVESTOCK	SAN ANTONIO	359	359	359	359	359	359
L	MANUFACTURING	SAN ANTONIO	4	8	12	16	20	24
L	MINING	SAN ANTONIO	129	91	64	43	21	11
L	GOLIAD	SAN ANTONIO	416	480	527	553	577	594
L	COUNTY-OTHER	SAN ANTONIO	252	291	315	329	342	352
L	COUNTY-OTHER	SAN ANTONIO-NUECES	70	80	87	91	94	97
L	MINING	SAN ANTONIO-NUECES	132	93	68	46	25	15
L	LIVESTOCK	SAN ANTONIO-NUECES	359	359	359	359	359	359
L	IRRIGATION	SAN ANTONIO-NUECES	10	9	7	6	5	4
Sum of Projected Water Demands (acre-feet/year)			11,682	19,302	19,298	19,266	19,233	19,224

Projected Water Supply Needs

TWDB 2012 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

APPENDIX J

GOLIAD COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
L	COUNTY-OTHER	GUADALUPE	241	197	170	153	139	128
L	COUNTY-OTHER	SAN ANTONIO	97	63	40	26	13	3
L	COUNTY-OTHER	SAN ANTONIO-NUECES	30	20	13	9	6	3
L	GOLIAD	SAN ANTONIO	527	474	431	405	381	364
L	IRRIGATION	GUADALUPE	220	226	231	235	239	242
L	IRRIGATION	SAN ANTONIO	3,716	3,770	3,804	3,831	3,853	3,873
L	IRRIGATION	SAN ANTONIO-NUECES	49	50	52	53	54	55
L	LIVESTOCK	GUADALUPE	0	0	0	0	0	0
L	LIVESTOCK	SAN ANTONIO	-3	-1	0	0	0	0
L	LIVESTOCK	SAN ANTONIO-NUECES	0	0	0	0	0	0
L	MANUFACTURING	SAN ANTONIO	20	16	12	8	4	0
L	MINING	GUADALUPE	0	0	0	0	0	0
L	MINING	SAN ANTONIO	0	0	0	0	0	0
L	MINING	SAN ANTONIO-NUECES	0	0	0	0	0	0
L	STEAM ELECTRIC POWER	GUADALUPE	7,676	2,060	2,060	2,060	2,060	2,060
Sum of Projected Water Supply Needs (acre-feet/year)			-3	-1	0	0	0	0

Projected Water Management Strategies

TWDB 2012 State Water Plan Data

APPENDIX K

GOLIAD COUNTY

WUG, Basin (RWPG)

All values are in acre-feet/year

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
COUNTY-OTHER, SAN ANTONIO (L)							
MUNICIPAL WATER CONSERVATION	CONSERVATION [GOLIAD]	0	0	0	0	0	16
GOLIAD, SAN ANTONIO (L)							
MUNICIPAL WATER CONSERVATION	CONSERVATION [GOLIAD]	30	59	67	73	85	100
LIVESTOCK, SAN ANTONIO (L)							
LIVESTOCK WATER CONSERVATION	CONSERVATION [GOLIAD]	3	1	0	0	0	0
Sum of Projected Water Management Strategies (acre-feet/year)		33	60	67	73	85	116