

Table 4A-4: Recommended WMS by County (ac-ft/yr)

	2010	2020	2030	2040	2050	2060
Austin						
Initial Shortage	0	-739	-1,240	-1,496	-1,635	-1,865
Expanded GW	0	739	1,240	1,496	1,635	1,865
Municipal Conservation	0	223	251	265	273	285
Contract Expansions	0	0	0	0	0	0
Net Shortage	0	223	251	265	273	285
Brazoria						
Initial Shortage	-150,907	-169,973	-198,342	-227,847	-257,465	-291,903
Expanded GW	0	4,049	8,240	11,410	13,746	15,941
Municipal Conservation	1,476	2,580	2,948	3,220	3,539	3,890
Contract Expansions	22,268	7,750	7,951	8,044	8,075	7,750
Net Shortage	-127,163	-155,594	-179,203	-205,173	-232,105	-264,322
Irrigation Conservation	18,792	18,792	18,792	18,792	18,792	18,792
Municipal Non-Potable Reuse	0	0	116	227	344	465
Brazoria Interruptible Irrigation	84,000	84,000	57,000	57,000	57,000	57,000
Reallocate Existing Supply	0	0	0	0	0	0
Interim Groundwater	44,723	0	0	0	0	0
GCWA Offchannel Reservoir	0	0	39,500	39,500	39,500	39,500
Allens Creek Lake/Reservoir	0	42,465	58,511	61,583	63,209	63,279
BRA System Operations Permit	0	24,870	24,870	24,870	24,870	24,870
Millican Lake/Reservoir	0	0	0	5,022	28,423	60,453
New Groundwater Wells for Livestock	0	0	0	0	0	0
Total after Recommendations	20,352	14,533	19,586	1,821	33	37
Chambers						
Initial Shortage	-42,520	-47,412	-50,831	-54,251	-57,612	-61,065
Expanded GW	3	577	681	796	905	1,010
Municipal Conservation	137	195	219	239	263	291
Contract Expansions	0	0	0	0	0	0
Net Shortage	-42,380	-46,640	-49,931	-53,216	-56,444	-59,764
Irrigation Conservation	24,018	24,018	24,018	24,018	24,018	24,018
CLCND W Chambers System	0	1,691	1,978	2,235	2,511	2,804
Reallocate Existing Supply	0	0	0	0	0	0
Interim Groundwater	903	0	0	0	0	0
New Contract from Existing Supply	13,823	17,083	19,972	22,888	25,732	28,672
Total after Recommendations¹	0	0	0	0	0	0

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	2010	2020	2030	2040	2050	2060
Fort Bend						
Initial Shortage	-86	-11,410	-52,608	-84,380	-123,623	-178,948
Expanded GW	0	6,886	3,423	3,813	4,378	5,052
Municipal Conservation	1,435	7,077	10,277	12,253	14,678	17,497
Contract Expansions	0	367	6,540	5,524	4,733	9,851
Net Shortage	1,349	2,920	-32,368	-62,790	-99,834	-146,548
WHCRWA GRP	0	0	0	0	0	0
NFBWA GRP	0	0	0	0	0	0
Sugar Land GRP	0	488	4,921	4,835	4,915	4,961
Missouri City GRP	4,401	4,401	4,401	4,401	4,401	4,401
Municipal Non-Potable Reuse	0	0	2,136	4,744	8,403	12,277
Fort Bend MUD 25 GRP	0	589	589	589	589	589
Allens Creek Lake/Reservoir	0	3,131	15,380	21,860	21,860	21,860
BRA System Operations Permit	0	480	480	480	480	480
Millican Lake/Reservoir	0	0	0	6,605	28,516	57,357
TRA to Houston Contract	0	0	13,813	27,824	39,179	39,179
Reallocate Existing Supply	0	0	0	0	0	12,992
Total after Recommendations	5,750	12,009	9,352	8,548	8,509	7,548
Galveston						
Initial Shortage	-16,307	-16,466	-17,787	-18,738	-19,884	-21,276
Expanded GW	503	811	1,352	1,350	1,352	1,352
Municipal Conservation	768	846	886	896	903	914
Contract Expansions	6,788	25,630	25,630	25,630	25,630	25,630
Net Shortage	-8,248	10,821	10,081	9,138	8,001	6,620
Irrigation Conservation	2,392	2,392	2,392	2,392	2,392	2,392
New Contract from Existing Supply	16	23	26	29	33	37
Interim Groundwater	5,907	0	0	0	0	0
Allens Creek Lake/Reservoir	0	12,101	13,234	14,175	14,175	14,175
Millican Lake/Reservoir	0	0	0	0	1,135	2,512
New Groundwater Wells	0	14	14	14	14	14
Total after Recommendations	67	25,351	25,747	25,748	25,750	25,750
Harris						
Initial Shortage	-51,442	-194,954	-272,178	-325,588	-377,291	-460,386
Expanded GW	29	15,510	27,688	27,722	27,756	27,589
Municipal Conservation	37,292	46,836	51,902	56,748	61,656	66,947
Contract Expansions	18,253	127,638	74,989	59,324	50,776	31,991
Net Shortage	4,132	-4,970	-117,599	-181,794	-237,103	-333,859
New Contract from Existing Supply	23,008	27,754	37,090	54,777	54,805	54,849
NHCRWA GRP	0	0	0	0	0	0
WHCRWA GRP	-65	-258	-409	-566	-751	-968
COH GRP	0	0	0	0	0	0
Missouri City GRP	386	386	386	386	386	386
Municipal Non-Potable Reuse	0	0	3,268	6,616	10,027	13,431
Reallocate Existing Supply	-18,253	-15,276	-12,196	-11,518	-11,513	-13,012
Interim Groundwater	15	0	0	0	0	0
Allens Creek Lake/Reservoir	0	15	83	336	336	336
Millican Lake/Reservoir	0	0	0	0	277	672
TRA to Houston Contract	0	0	102,925	113,830	131,208	139,908
NHCRWA Indirect Reuse	0	0	0	7,300	11,300	16,300
Wastewater Reuse for Industry	0	0	0	0	0	67,200
Houston Indirect Reuse	0	0	0	47,520	74,348	74,348
Total after Recommendations	9,223	7,651	13,548	36,887	33,320	19,591

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	2010	2020	2030	2040	2050	2060
Leon						
Initial Shortage	0	-376	-614	-707	-779	-908
Expanded GW	0	376	614	707	779	908
Municipal Conservation	0	126	140	124	107	116
Contract Expansions	0	0	0	0	0	0
Net Shortage	0	126	140	124	107	116
Total after Recommendations	0	126	140	124	107	116
Liberty						
Initial Shortage	-11,846	-15,150	-18,703	-22,561	-27,093	-32,408
Expanded GW	0	2,545	4,606	6,831	9,431	12,589
Municipal Conservation	0	539	641	744	868	995
Contract Expansions	0	0	0	0	0	0
Net Shortage	-11,846	-12,066	-13,456	-14,986	-16,794	-18,824
Irrigation Conservation	20,876	20,876	20,876	20,876	20,876	20,876
Reallocate Existing Supply	0	0	0	0	0	0
Total after Recommendations	9,030	8,810	7,420	5,890	4,082	2,052
Madison						
Initial Shortage	-1	-130	-228	-239	-323	-450
Expanded GW	1	130	228	239	323	450
Municipal Conservation	1	91	110	112	116	119
Contract Expansions	0	0	0	0	0	0
Net Shortage	1	91	110	112	116	119
Total after Recommendations	1	91	110	112	116	119
Montgomery						
Initial Shortage	-17,728	-47,619	-69,641	-81,205	-120,294	-165,084
Expanded GW	0	5,615	4,471	5,614	9,034	11,820
Municipal Conservation	4,460	6,007	7,384	8,838	10,795	13,089
Contract Expansions	0	0	0	0	0	0
Net Shortage	-13,268	-35,997	-57,786	-66,753	-100,465	-140,175
Montgomery County GRP	0	759	943	1,015	1,017	1,018
Municipal Non-Potable Reuse	0	0	1,752	3,838	6,787	10,215
SJRA WRAP	0	36,275	55,902	54,802	53,702	52,602
Interim Groundwater	13,268	0	0	0	0	0
TRA To SJRA Contract	0	0	0	7,799	38,959	76,340
Total after Recommendations	0	1,037	811	701	0	0
Polk						
Initial Shortage	0	-187	-313	-404	-552	-728
Expanded GW	0	191	320	406	558	743
Municipal Conservation	0	158	173	180	187	198
Contract Expansions	0	0	0	0	0	0
Net Shortage	0	162	180	182	193	213
Total after Recommendations	0	162	180	182	193	213
San Jacinto						
Initial Shortage	-492	-850	-1,131	-1,317	-1,426	-1,511
Expanded GW	492	1,092	1,521	1,596	1,630	1,692
Municipal Conservation	19	148	163	174	181	184
Contract Expansions	0	0	0	0	0	0
Net Shortage	19	390	553	453	385	365
Total after Recommendations	19	390	553	453	385	365

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	2010	2020	2030	2040	2050	2060
Trinity						
Initial Shortage	0	-2	-1	0	0	0
Expanded GW	0	36	36	21	0	0
Municipal Conservation	0	2	1	0	0	0
Contract Expansions	0	0	0	0	0	0
Net Shortage	0	36	36	21	0	0
Total after Recommendations	0	36	36	21	0	0
Walker						
Initial Shortage	0	-817	-1,651	-1,963	-2,374	-2,843
Expanded GW	0	817	1,651	1,963	2,374	2,843
Municipal Conservation	0	69	74	89	90	92
Contract Expansions	0	0	0	0	0	0
Net Shortage	0	69	74	89	90	92
Total after Recommendations	0	69	74	89	90	92
Waller						
Initial Shortage	-82	-1,926	-2,940	-4,579	-8,177	-12,355
Expanded GW	0	1,642	2,496	3,967	5,776	7,916
Municipal Conservation	17	392	497	592	708	849
Contract Expansions	0	0	0	0	0	0
Net Shortage	-65	108	53	-20	-1,693	-3,590
Irrigation Conservation	0	0	0	0	6,606	6,606
WHCROWA GRP	65	258	409	566	751	968
Total after Recommendations	0	366	462	546	5,664	3,984

Notes:

¹Total is zero due to reallocation of surplus irrigation supply from the Neches-Trinity to Trinity Basin.

A. Shortage values reflect the sum of all WUG shortages without offsets for other WUG surpluses.