

Appendix 4-C

Source Water Balance DB17 Report

The following appendix includes a copy of the Source Water Balance data from the TWDB Data Web Interface known as the DB17. The summary is divided by source, county, basin, and salinity.

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Source Water Balance (Availability- WUG Supply)

REGION I									
GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
CARRIZO-WILCOX AQUIFER	ANDERSON	NECHES	FRESH	2,564	2,504	2,517	2,564	2,589	2,601
CARRIZO-WILCOX AQUIFER	ANDERSON	TRINITY	FRESH	976	932	977	1,035	1,045	1,044
CARRIZO-WILCOX AQUIFER	ANGELINA	NECHES	FRESH	3,152	2,808	2,485	2,166	1,820	1,760
CARRIZO-WILCOX AQUIFER	CHEROKEE	NECHES	FRESH	4,910	4,791	4,669	4,502	4,307	3,995
CARRIZO-WILCOX AQUIFER	HENDERSON	NECHES	FRESH	243	282	311	279	239	195
CARRIZO-WILCOX AQUIFER	HOUSTON	NECHES	FRESH	522	522	522	522	522	522
CARRIZO-WILCOX AQUIFER	HOUSTON	TRINITY	FRESH	1,709	1,602	1,487	1,362	1,227	1,054
CARRIZO-WILCOX AQUIFER	NACOGDOCHES	NECHES	FRESH	11,867	11,465	11,023	10,544	9,994	9,312
CARRIZO-WILCOX AQUIFER	PANOLA	CYPRESS	FRESH	0	0	0	0	0	0
CARRIZO-WILCOX AQUIFER	PANOLA	SABINE	FRESH	3,534	3,533	3,374	3,373	3,371	3,369
CARRIZO-WILCOX AQUIFER	RUSK	NECHES	FRESH	5,558	5,524	5,504	5,486	5,440	5,411
CARRIZO-WILCOX AQUIFER	RUSK	SABINE	FRESH	2,389	2,380	2,370	2,359	2,343	2,306
CARRIZO-WILCOX AQUIFER	SABINE	NECHES	FRESH	1,236	1,236	1,236	1,236	1,236	1,236
CARRIZO-WILCOX AQUIFER	SABINE	SABINE	FRESH	5,113	5,113	5,113	5,113	5,113	5,113
CARRIZO-WILCOX AQUIFER	SAN AUGUSTINE	NECHES	FRESH	629	541	441	324	196	196
CARRIZO-WILCOX AQUIFER	SAN AUGUSTINE	SABINE	FRESH	176	167	156	144	130	130
CARRIZO-WILCOX AQUIFER	SHELBY	NECHES	FRESH	877	719	429	292	159	159
CARRIZO-WILCOX AQUIFER	SHELBY	SABINE	FRESH	5,229	5,019	4,805	4,738	4,209	3,959
CARRIZO-WILCOX AQUIFER	SMITH	NECHES	FRESH	6,868	6,250	5,577	4,580	2,672	981
CARRIZO-WILCOX AQUIFER	TRINITY	NECHES	FRESH	1,114	1,114	1,114	1,114	1,114	1,114
GULF COAST AQUIFER	HARDIN	NECHES	FRESH	7,609	7,309	7,099	6,964	6,955	6,981
GULF COAST AQUIFER	HARDIN	TRINITY	FRESH	104	103	102	102	101	101
GULF COAST AQUIFER	JASPER	NECHES	FRESH	60	0	5	19	33	39
GULF COAST AQUIFER	JASPER	SABINE	FRESH	26,688	26,703	26,719	26,735	26,751	26,759
GULF COAST AQUIFER	JEFFERSON	NECHES	FRESH	443	426	406	365	331	293
GULF COAST AQUIFER	JEFFERSON	NECHES-TRINITY	FRESH	829	819	805	780	739	687
GULF COAST AQUIFER	NEWTON	NECHES	FRESH	176	176	176	176	176	176
GULF COAST AQUIFER	NEWTON	SABINE	FRESH	30,749	30,635	30,558	30,488	30,421	30,348
GULF COAST AQUIFER	ORANGE	NECHES	FRESH	222	183	161	132	54	0
GULF COAST AQUIFER	ORANGE	NECHES-TRINITY	FRESH	162	162	162	162	162	162
GULF COAST AQUIFER	ORANGE	SABINE	FRESH	279	232	134	40	0	0
GULF COAST AQUIFER	POLK	NECHES	FRESH	10,054	9,917	9,787	9,055	8,892	8,782

Source Water Balance (Availability- WUG Supply)

REGION I									
GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
GULF COAST AQUIFER	TYLER	NECHES	FRESH	32,171	32,167	32,204	32,222	32,221	32,216
OTHER AQUIFER UNDIFFERENTIATED	ANDERSON	TRINITY	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	ANGELINA	NECHES	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	CHEROKEE	NECHES	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	HENDERSON	NECHES	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	HENDERSON	TRINITY	FRESH	81	81	81	81	81	81
OTHER AQUIFER UNDIFFERENTIATED	HOUSTON	NECHES	FRESH	196	220	244	267	291	301
OTHER AQUIFER UNDIFFERENTIATED	HOUSTON	TRINITY	FRESH	518	562	605	650	694	713
OTHER AQUIFER UNDIFFERENTIATED	NACOGDOCHES	NECHES	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	POLK	NECHES	FRESH	287	287	287	287	287	287
OTHER AQUIFER UNDIFFERENTIATED	RUSK	NECHES	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	RUSK	SABINE	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	SABINE	SABINE	FRESH	99	99	99	99	99	99
OTHER AQUIFER UNDIFFERENTIATED	SAN AUGUSTINE	NECHES	FRESH	0	0	0	0	0	0
OTHER AQUIFER UNDIFFERENTIATED	SMITH	NECHES	FRESH	687	687	687	687	687	687
OTHER AQUIFER UNDIFFERENTIATED	TRINITY	NECHES	FRESH	700	700	700	700	700	700
QUEEN CITY AQUIFER	ANDERSON	NECHES	FRESH	8,846	8,846	8,846	8,846	8,846	8,846
QUEEN CITY AQUIFER	ANDERSON	TRINITY	FRESH	8,405	8,405	8,405	8,405	8,405	8,405
QUEEN CITY AQUIFER	ANGELINA	NECHES	FRESH	1,093	1,093	1,093	1,093	1,093	1,093
QUEEN CITY AQUIFER	CHEROKEE	NECHES	FRESH	21,337	21,337	21,337	21,337	21,337	21,337
QUEEN CITY AQUIFER	HENDERSON	NECHES	FRESH	12,103	12,103	12,103	12,103	12,103	12,103
QUEEN CITY AQUIFER	HOUSTON	NECHES	FRESH	117	117	117	117	117	117
QUEEN CITY AQUIFER	HOUSTON	TRINITY	FRESH	216	216	216	216	216	216
QUEEN CITY AQUIFER	NACOGDOCHES	NECHES	FRESH	4,697	4,697	4,697	4,697	4,697	4,697
QUEEN CITY AQUIFER	RUSK	NECHES	FRESH	40	40	40	40	40	40
QUEEN CITY AQUIFER	RUSK	SABINE	FRESH	18	18	18	18	18	18
QUEEN CITY AQUIFER	SAN AUGUSTINE	NECHES	FRESH	7	7	7	7	7	7
QUEEN CITY AQUIFER	SAN AUGUSTINE	SABINE	FRESH	0	0	0	0	0	0
QUEEN CITY AQUIFER	SMITH	NECHES	FRESH	26,841	26,623	26,402	26,160	25,906	25,419
QUEEN CITY AQUIFER	TRINITY	NECHES	FRESH	0	0	0	0	0	0
SPARTA AQUIFER	ANDERSON	NECHES	FRESH	181	181	181	181	181	181
SPARTA AQUIFER	ANDERSON	TRINITY	FRESH	144	144	144	144	144	144
SPARTA AQUIFER	ANGELINA	NECHES	FRESH	501	501	501	501	501	501
SPARTA AQUIFER	CHEROKEE	NECHES	FRESH	202	202	202	202	202	202
SPARTA AQUIFER	HOUSTON	NECHES	FRESH	243	243	243	243	243	243

Source Water Balance (Availability- WUG Supply)

REGION I									
GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
SPARTA AQUIFER	HOUSTON	TRINITY	FRESH	494	494	494	494	494	494
SPARTA AQUIFER	NACOGDOCHES	NECHES	FRESH	253	253	253	253	253	253
SPARTA AQUIFER	SABINE	NECHES	FRESH	18	18	18	18	18	18
SPARTA AQUIFER	SABINE	SABINE	FRESH	232	232	232	232	232	232
SPARTA AQUIFER	SAN AUGUSTINE	NECHES	FRESH	111	111	111	111	111	111
SPARTA AQUIFER	SAN AUGUSTINE	SABINE	FRESH	3	3	3	3	3	3
SPARTA AQUIFER	TRINITY	NECHES	FRESH	313	313	313	313	313	313
YEGUA-JACKSON AQUIFER	ANGELINA	NECHES	FRESH	12,024	12,013	12,005	11,995	11,603	11,593
YEGUA-JACKSON AQUIFER	HOUSTON	NECHES	FRESH	1,324	1,324	1,324	1,324	1,324	1,324
YEGUA-JACKSON AQUIFER	HOUSTON	TRINITY	FRESH	3,810	3,810	3,810	3,810	3,810	3,810
YEGUA-JACKSON AQUIFER	NACOGDOCHES	NECHES	FRESH	209	209	209	209	209	209
YEGUA-JACKSON AQUIFER	POLK	NECHES	FRESH	354	354	354	354	354	354
YEGUA-JACKSON AQUIFER	SABINE	NECHES	FRESH	3,017	3,017	3,017	3,017	3,017	3,017
YEGUA-JACKSON AQUIFER	SABINE	SABINE	FRESH	565	565	565	565	565	565
YEGUA-JACKSON AQUIFER	SAN AUGUSTINE	NECHES	FRESH	1,871	1,871	1,871	1,871	1,871	1,871
YEGUA-JACKSON AQUIFER	SAN AUGUSTINE	SABINE	FRESH	0	0	0	0	0	0
YEGUA-JACKSON AQUIFER	TRINITY	NECHES	FRESH	3	3	3	3	3	3
GROUNDWATER TOTAL SOURCE WATER BALANCE				280,372	277,333	274,265	270,626	265,637	261,608
REGION I									
REUSE	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
DIRECT REUSE	ORANGE	SABINE	FRESH	0	0	0	0	0	0
DIRECT REUSE IRRIGATION/MANUFACTURING	SHELBY	SABINE	FRESH	0	0	0	0	0	0
DIRECT REUSE MANUFACTURING	SABINE	SABINE	FRESH	0	0	0	0	0	0
INDIRECT REUSE IRRIGATION	JEFFERSON	NECHES-TRINITY	FRESH	0	0	0	0	0	0
REUSE TOTAL SOURCE WATER BALANCE				0	0	0	0	0	0
REGION I									
SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
ATHENS LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	1,911	1,693	1,574	1,441	1,000	673
BELLWOOD LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	550	550	550	550	550	550
CENTER LAKE/RESERVOIR	RESERVOIR	SABINE	FRESH	1,290	1,250	1,212	1,176	1,133	1,120
CHEROKEE LAKE/RESERVOIR	RESERVOIR	SABINE	FRESH	8,684	8,440	8,195	7,947	7,710	7,477

Source Water Balance (Availability- WUG Supply)

REGION I									
SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
CYPRESS LIVESTOCK LOCAL SUPPLY	PANOLA	CYPRESS	FRESH	0	0	0	0	0	0
HOUSTON COUNTY LAKE/RESERVOIR	RESERVOIR	TRINITY	FRESH	3,500	3,500	3,500	3,500	3,500	3,500
JACKSONVILLE LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	3,068	2,872	2,668	2,390	2,060	1,695
KURTH LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	7,487	7,253	7,033	6,815	6,581	6,035
LAKE NACONICHE/RESERVOIR	RESERVOIR	NECHES	FRESH	4,500	4,500	4,500	4,500	4,500	4,500
MARTIN LAKE/RESERVOIR	RESERVOIR	SABINE	FRESH	0	0	0	0	0	0
MURVAUL LAKE/RESERVOIR	RESERVOIR	SABINE	FRESH	14,882	14,290	14,157	14,000	13,725	12,923
NACOGDOCHES LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	9,656	8,698	7,742	6,741	5,645	4,521
NECHES LIVESTOCK LOCAL SUPPLY	ANDERSON	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	ANGELINA	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	CHEROKEE	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	HARDIN	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	HENDERSON	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	HOUSTON	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	JASPER	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	NACOGDOCHES	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	ORANGE	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	POLK	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	RUSK	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	SABINE	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	SAN AUGUSTINE	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	SHELBY	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	SMITH	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	TRINITY	NECHES	FRESH	0	0	0	0	0	0
NECHES LIVESTOCK LOCAL SUPPLY	TYLER	NECHES	FRESH	0	0	0	0	0	0
NECHES OTHER LOCAL SUPPLY	CHEROKEE	NECHES	FRESH	0	0	0	0	0	0
NECHES OTHER LOCAL SUPPLY	JEFFERSON	NECHES	FRESH	0	0	0	0	0	0
NECHES OTHER LOCAL SUPPLY	NACOGDOCHES	NECHES	FRESH	0	0	0	0	0	0
NECHES OTHER LOCAL SUPPLY	POLK	NECHES	FRESH	0	0	0	0	0	0

Source Water Balance (Availability- WUG Supply)

REGION I									
SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
NECHES OTHER LOCAL SUPPLY	TYLER	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	ANDERSON	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	ANGELINA	NECHES	FRESH	74	74	74	74	74	74
NECHES RUN-OF-RIVER	CHEROKEE	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	HARDIN	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	HOUSTON	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	JASPER	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	JEFFERSON	NECHES	BRACKISH	752,152	752,152	752,152	752,152	752,152	752,152
NECHES RUN-OF-RIVER	NACOGDOCHES	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	ORANGE	NECHES	BRACKISH	17,310	17,310	17,310	17,310	17,310	17,310
NECHES RUN-OF-RIVER	RUSK	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	SABINE	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	SMITH	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	TRINITY	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER	TYLER	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER ANGELINA & NECHES RIVER AUTHORITY	SHELBY	NECHES	FRESH	1,000	1,000	1,000	1,000	1,000	1,000
NECHES RUN-OF-RIVER BEAUMONT	JEFFERSON	NECHES	FRESH	0	0	0	0	0	0
NECHES RUN-OF-RIVER PINE ISLAND BAYOU	JASPER	NECHES	FRESH	9,084	0	0	0	0	0
NECHES-TRINITY LIVESTOCK LOCAL SUPPLY	JEFFERSON	NECHES-TRINITY	FRESH	0	0	0	0	0	0
NECHES-TRINITY OTHER LOCAL SUPPLY	JEFFERSON	NECHES-TRINITY	FRESH	1,000	1,000	1,000	1,000	1,000	1,000
NECHES-TRINITY RUN-OF-RIVER	JEFFERSON	NECHES-TRINITY	FRESH	1,160	1,160	1,160	1,160	1,160	1,160
PALESTINE LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	189,452	186,766	184,049	181,225	178,289	175,309
PINKSTON LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	860	655	463	276	68	0
RUSK CITY LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	JASPER	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	NEWTON	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	ORANGE	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	PANOLA	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	RUSK	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	SABINE	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	SAN AUGUSTINE	SABINE	FRESH	0	0	0	0	0	0
SABINE LIVESTOCK LOCAL SUPPLY	SHELBY	SABINE	FRESH	0	0	0	0	0	0

Source Water Balance (Availability- WUG Supply)

REGION I									
SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
SABINE OTHER LOCAL SUPPLY	NEWTON	SABINE	FRESH	0	0	0	0	0	0
SABINE OTHER LOCAL SUPPLY	ORANGE	SABINE	FRESH	0	0	0	0	0	0
SABINE OTHER LOCAL SUPPLY	RUSK	SABINE	FRESH	0	0	0	0	0	0
SABINE RUN-OF-RIVER	NEWTON	SABINE	FRESH	0	0	0	0	0	0
SABINE RUN-OF-RIVER	ORANGE	SABINE	FRESH	0	0	0	0	0	0
SABINE RUN-OF-RIVER	ORANGE	SABINE	BRACKISH	267,000	267,000	267,000	267,000	267,000	267,000
SABINE RUN-OF-RIVER	PANOLA	SABINE	FRESH	0	0	0	0	0	0
SABINE RUN-OF-RIVER	RUSK	SABINE	FRESH	0	0	0	0	0	0
SABINE RUN-OF-RIVER SRA CANAL	NEWTON	SABINE	FRESH	70,364	70,364	70,364	70,364	70,364	70,364
SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM	RESERVOIR	NECHES	FRESH	661,066	569,519	554,181	540,411	526,638	512,023
SAN AUGUSTINE LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	0	0	0	0	0	0
STRIKER LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	7,077	6,250	5,423	4,597	3,770	2,984
TIMPSON LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	0	0	0	0	0	0
TOLEDO BEND LAKE/RESERVOIR	RESERVOIR	SABINE	FRESH	723,022	723,021	723,021	723,021	723,021	723,021
TOLEDO BEND LAKE/RESERVOIR LOUISIANA PORTION	RESERVOIR	SABINE-LOUISIANA	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	ANDERSON	TRINITY	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	HOUSTON	TRINITY	FRESH	0	0	0	0	0	0
TRINITY RUN-OF-RIVER	ANDERSON	TRINITY	FRESH	0	0	0	0	0	0
TRINITY RUN-OF-RIVER	HOUSTON	TRINITY	FRESH	0	0	0	0	0	0
TYLER LAKE/RESERVOIR	RESERVOIR	NECHES	FRESH	18,571	17,791	16,974	16,045	14,988	13,875
SURFACE WATER TOTAL SOURCE WATER BALANCE				2,774,720	2,667,108	2,645,302	2,624,695	2,603,238	2,580,266
REGION I TOTAL SOURCE WATER BALANCE				3,055,092	2,944,441	2,919,567	2,895,321	2,868,875	2,841,874