

**Instructions for Managing Draft Population and Water Demand Projection
Data Reviews and Requests for Adjustments**
(for use by RWPGs and their Technical Consultants)

Please find enclosed the initial draft water demand projections for all non-municipal water user groups in your region, along with a document describing the basic methodology used to develop these projections. These are being provided to allow time for consideration and review prior to the formal adoption of these demand projections by the Texas Water Development Board (TWDB) in the summer of 2012 for inclusion in the 2016 regional water plans. This review process will require sharing data and will involve an iterative request-and-response process between each RWPG and the TWDB.

Draft non-municipal demands for each region are contained in an Excel spreadsheet, with one spreadsheet tab for each of the non-municipal categories: irrigation, manufacturing, mining, steam-electric power generation, and livestock. *(A second spreadsheet with municipal population, GPCD, and municipal water demand projections will be forthcoming in early 2012, once available.)* These projections will be based on full county WUGs. These will be further split into county-basin WUGs AFTER Board adoption. These final splits will again be reviewed by the RWPGs and their technical consultants.

Each spreadsheet tab contains three sets of data arrays for the decades 2020-2070:

1. The first (left) array is populated with the initial TWDB draft water demand projection data, by county-WUG;
2. The second array is populated with previous projection data included in the recent 2011 Regional Water Plans (for comparison purposes only); and,
3. The last array (to the right) is provided as a blank set of data fields in which regional planning technical consultants may provide proposed changes to the draft projections.

If the RWPGs want to propose changes to these draft projections, RWPGs will be required, as per previous guidance, to provide documentation supporting the demand adjustments. Along with the supporting documentation, RWPGs must provide a set of proposed numbers in the spreadsheet that the RWPG would like TWDB to consider. Any proposed changes (and only those numbers that will be changed) are to be populated into the blank data array in the spreadsheet. In entering any proposed changes, please enter whole numbers only into the spreadsheets – no fractions/decimals. This may require rounding of all numbers prior to entering them (either through auto-rounding or other means). Spreadsheet cells will always display decimals to reveal any unrounded numbers.

There will be a corresponding comment field for each county-WUG line item in which RWPGs are to provide a reference for the basis of any proposed adjustment (e.g., report reference or other data sources provided to TWDB). For example, if adjustments for a particular irrigation county-WUG were based on a local study, the RWPG would enter something akin to: “based on data in study performed by xxx dated yyyy” in that field. The RWPG would also be responsible for providing a copy of the source study to TWDB staff for review. RWPG members and their consultant are only to make changes to the

spreadsheet in the columns provided for their adjusted numbers and comments; and only include numbers that are to change. Once the RWPG has reviewed all the water use category data and developed proposed adjustments, the RWPG is to send the Excel file, with proposed data changes, back to TWDB.

TWDB will then review the RWPG's requested changes and may respond with an adjusted set of draft data that the RWPG will then review or reject the requested change.

Each time the RWPG provides a proposed adjustment and TWDB provides a response, these datasets will remain in the spreadsheet with the most recent requests and responses in the data arrays in the fields to the right. The process may take several iterations with each one being recorded within the single spreadsheet.

It is recommended that the RWPGs delay submitting requested adjustments to TWDB staff until all the non-municipal water use water demand projections have been reviewed and adjustments proposed. Once the planning groups have reviewed the draft projections and proposed adjustments to these projections they should send the updated spreadsheet to Thomas Barnett at TWDB (512-463-4209, Thomas.barnett@twdb.texas.gov) and cc their appropriate TWDB Regional Project Manager. To ensure that we can meet our target for adopting demands, please respond with revision requests prior to the end of February 2012.

Draft

Irrigation Draft Projections for 2017 SWP

County Name	2020	2030	2040	2050	2060	2070
Bell	2,205	2,174	2,147	2,117	2,086	2,058
Bosque	2,128	2,094	2,060	2,029	1,998	1,968
Brazos	26,050	24,791	23,594	22,459	21,374	20,438
Burleson	22,855	21,904	21,057	20,115	19,216	18,469
Callahan	573	564	555	546	537	529
Comanche	27,458	27,175	26,894	26,617	26,342	26,076
Coryell	214	214	214	214	214	214
Eastland	6,819	6,829	6,837	6,840	6,843	6,850
Erath	6,383	6,290	6,198	6,107	6,018	5,933
Falls	4,301	4,163	4,027	3,898	3,772	3,658
Fisher	4,488	4,354	4,224	4,098	3,974	3,862
Grimes	0	0	0	0	0	0
Hamilton	507	504	495	471	448	436
Haskell	39,504	38,330	37,189	36,084	35,013	34,032
Hill	582	582	582	582	568	563
Hood	7,205	7,071	6,939	6,807	6,680	6,560
Johnson	141	141	141	141	141	141
Jones	2,870	2,784	2,701	2,620	2,542	2,471
Kent	1,235	1,198	1,166	1,134	1,102	1,073
Knox	35,793	34,914	34,056	33,219	32,403	31,645
Lampasas	387	382	377	372	370	366
Lee	459	446	434	421	409	398
Limestone	0	0	0	0	0	0
McLennan	4,880	4,877	4,872	4,867	4,862	4,858
Milam	5,081	5,040	4,995	4,956	4,915	4,875
Nolan	7,413	7,217	7,024	6,842	6,663	6,497
Palo Pinto	3,138	3,097	3,063	3,022	2,981	2,944
Robertson	63,420	61,607	59,841	58,127	56,460	55,124
Shackelford	0	0	0	0	0	0
Somervell	83	82	82	81	80	79
Stephens	116	115	113	112	111	110
Stonewall	165	160	155	150	146	142
Taylor	1,557	1,519	1,481	1,444	1,406	1,373
Throckmorton	0	0	0	0	0	0
Washington	299	299	299	299	299	299
Williamson	151	151	151	151	151	151
Young	51	50	48	47	45	44
Total	278,511	271,118	264,011	256,989	250,169	244,236

Draft

Irrigation 2012 SWP Projections

County Nar	2020	2030	2040	2050	2060	County N	2020	2030	2040	2050	2060	2070
Bell	1,634	1,611	1,591	1,569	1546	Bell						
Bosque	2,466	2,427	2,388	2,352	2316	Bosque						
Brazos	6,267	5,964	5,676	5,403	5142	Brazos						
Burleson	16,749	16,052	15,431	14,741	14082	Burleson						
Callahan	793	780	767	755	742	Callahan						
Comanche	35,230	34,867	34,507	34,151	33798	Comanche						
Coryell	0	0	0	0	0	Coryell						
Eastland	16,327	16,352	16,370	16,377	16385	Eastland						
Erath	10,502	10,349	10,197	10,048	9901	Erath						
Falls	1,806	1,748	1,691	1,637	1584	Falls						
Fisher	2,314	2,245	2,178	2,113	2049	Fisher						
Grimes	241	241	241	241	241	Grimes						
Hamilton	467	464	456	434	413	Hamilton						
Haskell	47,844	46,422	45,040	43,702	42405	Haskell						
Hill	42	42	42	42	41	Hill						
Hood	3,120	3,062	3,005	2,948	2893	Hood						
Johnson	240	240	240	240	240	Johnson						
Jones	4,124	4,000	3,881	3,765	3653	Jones						
Kent	503	488	475	462	449	Kent						
Knox	41,033	40,025	39,041	38,082	37147	Knox						
Lampasas	166	164	162	160	159	Lampasas						
Lee	916	891	867	842	818	Lee						
Limestone	0	0	0	0	0	Limestone						
McLennan	2,814	2,812	2,809	2,806	2803	McLennan						
Milam	2,352	2,333	2,312	2,294	2275	Milam						
Nolan	5,003	4,871	4,741	4,618	4497	Nolan						
Palo Pinto	923	911	901	889	877	Palo Pinto						
Robertson	16,019	15,561	15,115	14,682	14261	Robertson						
Shackelford	183	178	173	168	163	Shackelford						
Somervell	471	468	467	464	461	Somervell						
Stephens	781	771	760	750	740	Stephens						
Stonewall	326	317	307	298	290	Stonewall						
Taylor	166	162	158	154	150	Taylor						
Throckmorton	4,000	4,000	4,000	4,000	4000	Throckmorton						
Washington	1,724	1,724	1,724	1,724	1724	Washington						
Williamson	80	80	80	80	80	Williamson						
Young	71	69	66	64	61	Young						
Total	227,697	222,691	217,859	213,055	208386	Total						

Draft

RWPG Comments

Manufacturing Draft Projections for 2017 SWP

County Name	2020	2030	2040	2050	2060	2070
Bell	1,370	1,490	1,607	1,711	1,847	1,994
Bosque	2,739	3,058	3,372	3,643	3,959	4,302
Brazos	2,456	2,779	3,109	3,405	3,694	4,008
Burleson	139	161	183	203	221	241
Callahan	0	0	0	0	0	0
Comanche	36	39	41	43	46	49
Coryell	10	11	12	13	14	15
Eastland	72	77	82	85	91	97
Erath	80	88	96	103	112	122
Falls	1	1	1	1	1	1
Fisher	225	255	284	310	336	364
Grimes	361	408	455	497	539	585
Hamilton	5	6	7	8	9	10
Haskell	0	0	0	0	0	0
Hill	45	50	55	60	65	70
Hood	25	27	29	31	34	37
Johnson	2517	2903	3295	3646	3994	4375
Jones	0	0	0	0	0	0
Kent	0	0	0	0	0	0
Knox	0	0	0	0	0	0
Lampasas	185	199	213	226	243	261
Lee	13	14	15	16	17	18
Limestone	93	102	111	118	127	137
McLennan	5,087	5,724	6,373	6,955	7,532	8,157
Milam	46,643	46,643	46,643	55,406	55,406	55,406
Nolan	1,420	1,611	1,799	1,965	2,130	2,309
Palo Pinto	49	53	57	61	67	74
Robertson	133	154	176	197	214	232
Shackelford	0	0	0	0	0	0
Somervell	8	9	10	11	12	13
Stephens	9	10	11	12	13	14
Stonewall	0	0	0	0	0	0
Taylor	1,653	1,800	1,942	2,063	2,236	2,424
Throckmorton	0	0	0	0	0	0
Washington	692	757	822	879	951	1029
Williamson	2354	2692	3032	3339	3626	3938
Young	59	64	69	72	79	87
Total	68,479	71,185	73,901	85,079	87,615	90,369

Manufacturing 2012 SWP Projections					Manufacturing RWPG Revisions							
County Name	2020	2030	2040	2050	2060	County Name	2020	2030	2040	2050	2060	2070
Bell	1,085	1,180	1,273	1,355	1,463	Bell						
Bosque	1,151	1,285	1,417	1,531	1,664	Bosque						
Brazos	365	413	462	506	549	Brazos						
Burleson	233	270	307	340	370	Burleson						
Callahan	0	0	0	0	0	Callahan						
Comanche	34	37	39	41	44	Comanche						
Coryell	10	11	12	13	14	Coryell						
Eastland	47	50	53	55	59	Eastland						
Erath	82	90	98	105	114	Erath						
Falls	2	2	2	2	2	Falls						
Fisher	225	255	284	310	336	Fisher						
Grimes	297	336	375	410	445	Grimes						
Hamilton	5	6	7	8	9	Hamilton						
Haskell						Haskell						
Hill	97	108	119	129	140	Hill						
Hood	28	30	32	34	37	Hood						
Johnson	2517	2903	3295	3646	3994	Johnson						
Jones	0	0	0	0	0	Jones						
Kent	0	0	0	0	0	Kent						
Knox	0	0	0	0	0	Knox						
Lampasas	142	153	164	174	187	Lampasas						
Lee	14	15	16	17	18	Lee						
Limestone	53	58	63	67	72	Limestone						
McLennan	4,068	4,577	5,096	5,561	6,022	McLennan						
Milam	8,250	8,250	8,250	9,800	9,800	Milam						
Nolan	915	1,038	1,159	1,266	1,372	Nolan						
Palo Pinto	33	36	39	42	46	Palo Pinto						
Robertson	101	117	134	150	163	Robertson						
Shackelford	0	0	0	0	0	Shackelford						
Somervell	7	8	9	10	11	Somervell						
Stephens	8	9	10	11	12	Stephens						
Stonewall	0	0	0	0	0	Stonewall						
Taylor	1081	1177	1270	1349	1462	Taylor						
Throckmorton	0	0	0	0	0	Throckmorton						
Washington	461	504	547	585	633	Washington						
Williamson	1854	2120	2388	2630	2856	Williamson						
Young	36	39	42	44	48	Young						
Total	23,201	25,077	26,962	30,191	31,942	Total						

RWPG Comments

Mining Draft Projections for 2017 SWP

County Na	2020	2030	2040	2050	2060	2070	County Na	2020	2030	2040	2050	2060
Bell	3,242	3,981	4,599	5,349	6,105	6,968	Bell	150	147	144	141	139
Bosque	4,177	2,519	1,390	1,470	1,531	1,596	Bosque	197	189	182	176	172
Brazos	997	1,757	1,544	1,216	957	829	Brazos	28	29	30	31	31
Burleson	2,649	1,892	1,422	952	481	245	Burleson	24	24	24	24	24
Callahan	158	156	150	146	142	139	Callahan	96	98	100	101	103
Comanche	2,726	1,200	13	13	13	13	Comanche	51	50	49	48	47
Coryell	2277	1515	596	363	398	437	Coryell	111	113	115	117	118
Eastland	1,574	1,483	694	312	329	347	Eastland	102	105	108	111	115
Erath	2,738	970	15	15	15	15	Erath					
Falls	225	246	259	286	307	331	Falls	95	91	88	85	83
Fisher	44	34	31	29	28	26	Fisher	359	354	349	344	337
Grimes	242	480	373	267	160	96	Grimes	169	171	173	174	175
Hamilton	1201	526	0	0	0	0	Hamilton	0	0	0	0	0
Haskell	18	16	15	15	15	14	Haskell	91	90	89	88	87
Hill	1652	808	366	403	435	471	Hill	96	94	92	90	89
Hood	2,483	1,724	1,485	1,580	1,674	1,811	Hood	161	160	159	158	157
Johnson	2290	1000	842	1013	1161	1336	Johnson	390	403	415	427	436
Jones	140	134	129	123	117	113	Jones	303	304	305	306	307
Kent	14	13	13	13	13	13	Kent	436	427	418	410	399
Knox	12	12	12	12	12	12	Knox	26	26	26	26	26
Lampasas	198	222	241	261	286	313	Lampasas	144	139	135	131	128
Lee	3156	7144	7653	8221	8852	9600	Lee	5450	5450	5450	13	13
Limestone	10339	9802	9722	10186	10651	11329	Limestone	387	392	396	400	403
McLennan	3,792	3,420	2,918	3,356	3,731	4,149	McLennan	399	389	380	371	366
Milam	14	14	14	14	14	14	Milam	4,000	4,000	3,000	1,500	1500
Nolan	44	39	38	37	36	35	Nolan	278	278	278	278	278
Palo Pinto	2,843	1,252	16	16	16	15	Palo Pinto	2	2	2	2	2
Robertson	9,773	11,430	13,448	15,924	18,957	22,793	Robertson	10,300	10,300	78	77	76
Shackelfor	1333	1233	404	19	18	18	Shackelfor	724	752	779	806	845
Somervell	1293	960	815	813	833	861	Somervell	287	278	270	263	257
Stephens	2380	1456	463	167	146	128	Stephens	9328	9567	9798	10024	10347
Stonewall	54	39	36	33	30	28	Stonewall	15	15	15	15	15
Taylor	331	330	312	298	289	281	Taylor	304	313	322	330	340
Throckmor	25	20	19	19	18	17	Throckmor	53	55	57	59	61
Washingto	1034	1321	1032	742	452	284	Washingto	198	206	213	220	226
Williamsor	5163	6247	7364	8555	9782	11186	Williamsor	2615	2795	2972	3149	3280
Young	670	622	206	13	13	13	Young	222	231	240	249	261
Total	71,301	66,017	58,649	62,251	68,017	75,876	Total	37,591	38,037	27,251	20,744	21243

County Name	2020	2030	2040	2050	2060	RWPG Con 2070
Bell						
Bosque						
Brazos						
Burleson						
Callahan						
Comanche						
Coryell						
Eastland						
Erath						
Falls						
Fisher						
Grimes						
Hamilton						
Haskell						
Hill						
Hood						
Johnson						
Jones						
Kent						
Knox						
Lampasas						
Lee						
Limestone						
McLennan						
Milam						
Nolan						
Palo Pinto						
Robertson						
Shackelford						
Somervell						
Stephens						
Stonewall						
Taylor						
Throckmorton						
Washington						
Williamson						
Young						
Total						

gments

Steam-Electric Draft Projections for 2017 SWP

County Name	2020	2030	2040	2050	2060	2070
Bell	4,220	4,934	5,804	6,865	8,157	9,693
Bosque	6,188	7,235	8,510	10,065	11,961	14,214
Brazos	503	406	460	312	405	384
Burleson	0	0	0	0	0	0
Callahan	0	0	0	0	0	0
Comanche	0	0	0	0	0	0
Coryell	0	0	0	0	0	0
Eastland	0	0	0	0	0	0
Erath	0	0	0	0	0	0
Falls	0	0	0	0	0	0
Fisher	0	0	0	0	0	0
Grimes	31760	33160	34660	36660	39660	42905
Hamilton	0	0	0	0	0	0
Haskell	336	393	462	547	650	720
Hill	0	0	0	0	0	0
Hood	5,814	6,796	7,995	9,456	11,238	13,354
Johnson	7000	7000	7000	7000	7000	7000
Jones	333	294	396	364	484	518
Kent	0	0	0	0	0	0
Knox	0	0	0	0	0	0
Lampasas	0	0	0	0	0	0
Lee	0	0	0	0	0	0
Limestone	22598	26420	31079	36758	43681	52033
McLennan	6,990	8,914	9,683	11,155	11,929	12,756
Milam	12,500	12,500	12,500	16,000	16,000	16,000
Nolan	13,526	23,916	23,916	23,916	23,916	23,916
Palo Pinto	4,000	4,000	4,000	4,000	4,000	4,000
Robertson	17,461	30,380	35,512	46,984	49,133	51,381
Shackelford	0	0	0	0	0	0
Somervell	84817	84817	84817	84817	84817	84817
Stephens	0	0	0	0	0	0
Stonewall	0	0	0	0	0	0
Taylor	0	0	0	0	0	0
Throckmorton	0	0	0	0	0	0
Washington	0	0	0	0	0	0
Williamson	0	0	0	0	0	0
Young	1730	2023	2379	2814	3344	3706
Total	219,776	253,188	269,173	297,713	316,375	337,397

Steam Electric 2012 SWP Projections

County Nar	2020	2030	2040	2050	2060	County N	2020	2030	2040	2050	2060	2070
Bell	3,674	4,296	5,053	5,977	7102	Bell						
Bosque	6,188	7,235	8,510	10,065	11961	Bosque						
Brazos	488	394	446	303	393	Brazos						
Burleson	0	0	0	0	0	Burleson						
Callahan	0	0	0	0	0	Callahan						
Comanche	0	0	0	0	0	Comanche						
Coryell	0	0	0	0	0	Coryell						
Eastland	0	0	0	0	0	Eastland						
Erath	0	0	0	0	0	Erath						
Falls	0	0	0	0	0	Falls						
Fisher	0	0	0	0	0	Fisher						
Grimes	31760	33160	34660	36660	39660	Grimes						
Hamilton	0	0	0	0	0	Hamilton						
Haskell	336	393	462	547	650	Haskell						
Hill	0	0	0	0	0	Hill						
Hood	5,862	6,853	8,062	9,535	11331	Hood						
Johnson	7000	7000	7000	7000	7000	Johnson						
Jones	333	294	396	364	484	Jones						
Kent	0	0	0	0	0	Kent						
Knox	0	0	0	0	0	Knox						
Lampasas	0	0	0	0	0	Lampasas						
Lee	0	0	0	0	0	Lee						
Limestone	22598	26420	31079	36758	43681	Limestone						
McLennan	11,217	14,305	15,538	17,901	19142	McLennan						
Milam	12,500	12,500	12,500	16,000	16000	Milam						
Nolan	11,311	20,000	20,000	20,000	20000	Nolan						
Palo Pinto	4000	4000	4000	4000	4000	Palo Pinto						
Robertson	17,882	31,113	36,369	48,118	50319	Robertson						
Shackelford	0	0	0	0	0	Shackelford						
Somervell	84817	84817	84817	84817	84817	Somervell						
Stephens	0	0	0	0	0	Stephens						
Stonewall	0	0	0	0	0	Stonewall						
Taylor	0	0	0	0	0	Taylor						
Throckmort	0	0	0	0	0	Throckmorton						
Washington	0	0	0	0	0	Washington						
Williamson	0	0	0	0	0	Williamson						
Young	1730	2023	2379	2814	3344	Young						
Total	221,696	254,803	271,271	300,859	319884	Total						

RWPG Comments

Livestock 2012 SWP Projections					Livestock RWPG Revisions						
County Nam	2020	2030	2040	2050	2060 County Nam	2020	2030	2040	2050	2060	2070
Bell	953	953	953	953	953 Bell						
Bosque	1,048	1,048	1,048	1,048	1,048 Bosque						
Brazos	1,032	1,032	1,032	1,032	1,032 Brazos						
Burleson	1,422	1,422	1,422	1,422	1,422 Burleson						
Callahan	976	976	976	976	976 Callahan						
Comanche	4,253	4,253	4,253	4,253	4,253 Comanche						
Coryell	1339	1339	1339	1339	1339 Coryell						
Eastland	1,121	1,121	1,121	1,121	1,121 Eastland						
Erath	9,321	9,321	9,321	9,321	9,321 Erath						
Falls	1,626	1,626	1,626	1,626	1,626 Falls						
Fisher	585	585	585	585	585 Fisher						
Grimes	1554	1554	1554	1554	1554 Grimes						
Hamilton	1961	1961	1961	1961	1961 Hamilton						
Haskell	492	492	492	492	492 Haskell						
Hill	1401	1401	1401	1401	1401 Hill						
Hood	623	623	623	623	623 Hood						
Johnson	2117	2117	2117	2117	2117 Johnson						
Jones	786	786	786	786	786 Jones						
Kent	459	459	459	459	459 Kent						
Knox	1,040	1,040	1,040	1,040	1,040 Knox						
Lampasas	688	688	688	688	688 Lampasas						
Lee	1547	1547	1547	1547	1547 Lee						
Limestone	1487	1487	1487	1487	1487 Limestone						
McLennan	1,151	1,151	1,151	1,151	1,151 McLennan						
Milam	1,779	1,779	1,779	1,779	1,779 Milam						
Nolan	464	464	464	464	464 Nolan						
Palo Pinto	909	909	909	909	909 Palo Pinto						
Robertson	1,508	1,508	1,508	1,508	1,508 Robertson						
Shackelford	760	760	760	760	760 Shackelford						
Somervell	166	166	166	166	166 Somervell						
Stephens	576	576	576	576	576 Stephens						
Stonewall	469	469	469	469	469 Stonewall						
Taylor	1305	1305	1305	1305	1305 Taylor						
Throckmorton	752	752	752	752	752 Throckmorton						
Washington	1,554	1,554	1,554	1,554	1,554 Washington						
Williamson	1344	1344	1344	1344	1344 Williamson						
Young	1008	1008	1008	1008	1008 Young						
Total	51,576	51,576	51,576	51,576	51,576 Total						

RWPG Comments