

Region K Public Meeting

October 11, 2017

Lower Colorado Regional Water Planning Group
(Region K)



October 11, 2017

Agenda

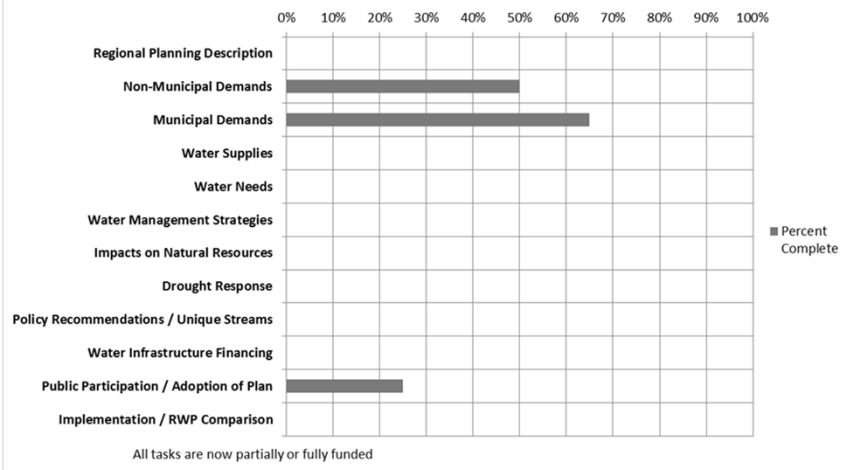
1. Call to Order
2. Welcome and Introductions
3. Public Comments on Agenda Item 8
4. Attendance Report
5. Consent Agenda
6. Texas Water Development Board
7. Consultant Status Report

Agenda Item 7

CONSULTANT STATUS REPORT

7. Consultant Status Report

2021 Region K Plan Task Percent Complete



7. Consultant Status Report Effort since last meeting (July 12th)

- ▼ Population, Municipal, and Non-Municipal Demand Projections
 - Provided draft non-municipal demand projections to county judges, groundwater conservation district representatives, and RWPG members for review and comment.
 - Continued coordination on revision requests.
 - Submitted the sub-WUG request for Aqua Texas – Rivercrest to the TWDB, prior to their September 1st deadline.
 - Presented Region K status update to CAPCOG Exploratory Water Committee.
 - Prepared for and presented at the Population and Water Demand Committee Meeting on September 14th. Followed up with meeting minutes and action items.
 - Met with West Travis County PUA.
 - Attended TWDB Conference Call to discuss the Database for this cycle.

7. Consultant Status Report Other Items to Note

- ▼ The Creedmoor-Maha WSC amendment to the 2016 Region K Water Plan was approved by the TWDB Board on July 20th. Amendment can be found on the TWDB website with the 2016 Regional Water Plans. Also included on the Region K website.

7. Consultant Status Report Upcoming effort

- ▼ Work with the Population and Demand Committee to review and develop any remaining recommended population, municipal demand, or non-municipal demand revisions to bring to the planning group for consideration at the January Region K meeting.
- ▼ Begin work on additional tasks needed for Technical Memorandum, due September 2018.

Agenda Item 8

POPULATION AND WATER DEMAND COMMITTEE REPORT

8. Population and Water Demand Committee Report

▼ Objective Today:

- Present summary of September 14th Committee Meeting
- Present requested population and water demand revisions, Committee recommendations, and additional information for discussion and consideration by RWPG. Consider taking action to approve any of the revisions for submittal to TWDB.
 - If action is taken, recommend doing so by County for Municipal WUGs and by Water Use Category for Non-Municipal WUGs, rather than waiting until end.
- Identification of remaining potential revisions that will need to be considered by the Committee at their next meeting and at the January Region K meeting.

8a. Summary of Committee Meeting Held September 14, 2007

- ▼ Open meeting. Draft minutes have been provided to RWPG members. Draft minutes will be considered for approval at next Committee meeting.
- ▼ Discussion of draft population and municipal demand projections and requested revisions. Incorporated public/RWPG comments into discussion. Identification of which counties still had revision data coming where decisions could not yet be made (Travis/Hays). Decisions on recommendations to make to RWPG.
- ▼ Discussion of draft non-municipal demand projections for all water use categories. Incorporated public/RWPG comments into discussion. Questions posed to TWDB staff. Action items directed. Decisions on recommendations to make to RWPG.

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

- ▼ Update on WUG feedback on draft municipal projections
 - 66 out of 114 have responded (58%)
 - 37 are not requesting any changes
 - 4 have changes that mainly affect another region
 - 6 have made contact, but not provided feedback
 - 19 are requesting changes affecting our region
 - New or updated since last meeting:
 - Austin
 - Lakeway MUD
 - Leander
 - Meadowlakes MUD
 - North San Saba WSC
 - San Saba

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

- ▼ Revision Requests and Recommendations
 - Note: changes to Population and/or Base GPCD will impact Municipal Demands
 - Bastrop County (no changes requested)
 - Blanco County (no changes requested)
 - Burnet County
 - Granite Shoals – Population decrease for 2020-2070 due to lower anticipated growth than TWDB projections show.
 - Recommended for RWPG approval by Committee
 - Meadowlakes MUD – Population decrease for 2030-2070 due to expectation of reaching buildout early in 2020 decade.
 - Bertram – no details yet, but could be a factor in balancing the county population.
 - How to address decrease in Burnet County population?
 - Option 1 is to increase County-Other
 - Option 2 is to move excess population to another county and decrease Burnet County's overall population

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

▼ Revision Requests and Recommendations

- Note: changes to Population and/or Base GPCD will impact Municipal Demands
- Colorado County (no changes requested)
- Fayette County
 - Fayette County WCID Monument Hill – Request for higher municipal demands based on water use reports submitted to Fayette County GCD for the last nine years. TWDB data matches water use reports, so unsure of reason for discrepancy with projections. Recommend increasing 2020 population slightly, based on TCEQ WDD population; recommend increase to Base GPCD to reflect 2011 water use.
 - David Van Dresar confirmed need to increase projections
 - Recommended for RWPG approval by Committee
 - How to address small increase in Fayette County population?
 - Recommend small decrease to County-Other population in 2020.
- Gillespie County (no changes requested)

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

▼ Revision Requests and Recommendations

- Note: changes to Population and/or Base GPCD will impact Municipal Demands
- Hays County – We have received requests, but need some additional information from the WUGs before we can bring you the final recommended revised numbers – January meeting.
 - Austin
 - Dripping Springs WSC
 - West Travis County PUA
- Llano County (no changes requested)
- Matagorda County (no changes requested)
- Mills County (no changes requested)
- San Saba County
 - North San Saba WSC – Request for small increase in 2040-2070 population, based on expectation that second homes will become permanent retirement homes.
 - Committee comfortable with request because it is small, but TWDB may not agree due to lack of documentation.
 - Recommend corresponding decrease to County-Other if RWPG approves.

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

▼ Revision Requests and Recommendations

- Travis County – We have received requests, but need some additional information from some of the WUGs before we can bring you the final recommended revised numbers – January meeting.
 - Aqua Texas – Rivercrest (sub-WUG)
 - Austin
 - Lago Vista
 - Lakeway MUD
 - Leander
 - Oak Shores Water System
 - Pflugerville
 - Rough Hollow CRU
 - Sunset Valley
 - Sweetwater CRU
 - Travis County WCID 17
 - Travis County WCID Point Venture
 - Wells Branch MUD
 - West Travis County PUA

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

▼ Revision Requests and Recommendations

- Wharton County
 - City of Wharton – Request for significant increase in population, based on recent planning study, but no available documentation to support the large increase.
 - Committee does not recommend revising Wharton's numbers. Will look at next cycle. Will work with Wharton to incorporate strategies and supplies, as able.
- Williamson County – WUGs are shared with Travis County. Will coordinate with Travis County numbers for January meeting.
 - Austin
 - Wells Branch MUD

8b. Presentation of Population and Municipal Demand Projection Requested Revisions

▼ Revision Requests and Recommendations

– General Committee Recommendation

- Base GPCD numbers

- Original TWDB Base GPCD numbers with draft projections were from last cycle (city boundaries).
- Historical data sent out by TWDB in June shows GPCD estimates based on updated utility boundaries.
- GPCD numbers are very different, in some cases.
- Committee recommends to RWPG that where different, Region K requests TWDB to use the utility boundary GPCD numbers (2011 water use) in place of the ones sent out with the draft projections. Exception for WUGs that have requested specific changes to their Base GPCD numbers.

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Presentation of Draft Non-Municipal Demand Projections and potential revisions.

– Presented by Water Use Category

- Livestock
- Steam-Electric
- Mining
- Manufacturing
- Irrigation

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Livestock Water Demand Projections

▼ Methodology:

– 2020 projections – average water use from 2010-2014; keep 2020-2070 constant

Region	County	Historical Use Estimates (AFY)						2010-2014
		2010	2011	2012	2013	2014	2015	Average
K	BASTROP	1,307	1,302	1,074	961	1,031	1,050	1,135
K	BLANCO	386	386	317	278	289	295	331
K	BURNET	5,682	1,170	579	499	523	609	1,691
K	COLORADO	1,488	1,457	1,259	1,077	1,097	1,113	1,276
K	FAYETTE	2,004	1,861	1,670	1,447	1,650	1,752	1,726
K	GILLESPIE	1,791	1,844	868	762	796	809	1,212
K	HAYS	19	19	14	16	17	17	17
K	LLANO	619	614	497	581	589	607	580
K	MATAGORDA	1,197	1,173	973	990	1,044	969	1,075
K	MILLS	1,037	1,078	710	736	753	773	863
K	SAN SABA	866	865	740	702	723	735	779
K	TRAVIS	625	634	497	479	398	405	527
K	WHARTON	894	872	741	736	716	678	792
K	WILLIAMSON	0	0	0	0	0	0	0
Region Total		17,915	13,275	9,939	9,264	9,626	9,812	12,004

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Livestock Water Demand Projections for 2021 Plan in AFY,
compared to 2017 State Water Plan Projections:

Region	County	2017 SWP Projections						2021 RWP Draft Projections	
		2020	2030	2040	2050	2060	2070	2020	2070
K	BASTROP	1,522	1,522	1,522	1,522	1,522	1,522	1,135	1,135
K	BLANCO	564	564	564	564	564	564	331	331
K	BURNET	835	835	835	835	835	835	1,691	1,691
K	COLORADO	1,590	1,590	1,590	1,590	1,590	1,590	1,276	1,276
K	FAYETTE	2,397	2,397	2,397	2,397	2,397	2,397	1,726	1,726
K	GILLESPIE	1,062	1,062	1,062	1,062	1,062	1,062	1,212	1,212
K	HAYS	220	220	220	220	220	220	17	17
K	LLANO	751	751	751	751	751	751	580	580
K	MATAGORDA	1,503	1,503	1,503	1,503	1,503	1,503	1,075	1,075
K	MILLS	944	944	944	944	944	944	863	863
K	SAN SABA	1,191	1,191	1,191	1,191	1,191	1,191	779	779
K	TRAVIS	704	704	704	704	704	704	527	527
K	WHARTON	728	728	728	728	728	728	792	792
K	WILLIAMSON	1	1	1	1	1	1	0	0
Region Total		14,012	14,012	14,012	14,012	14,012	14,012	12,004	12,004

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Livestock

- Based on comment from Ron Fieseler regarding projections in Blanco County, Committee requested TWDB supporting data for Livestock projections.
- TWDB staff and Committee acknowledge that it is difficult to obtain accurate data for Livestock water use.
- Currently, no available documentation to support recommending any revisions to Livestock in any county.

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Steam-Electric Water Demand Projections

▼ Methodology:

- 2020 projections - highest water use from 2010-2014 plus planned new facilities and minus scheduled retiring facilities; keep 2020-2070 constant

Region	County	Historical Use Estimates (AFY)						2010-2014 Peak	New (+)	Total
		2010	2011	2012	2013	2014	2015			
K	BASTROP	3,491	7,646	6,426	5,549	6,789	7,764	7,646	2,642	10,288
K	BLANCO	0	0	0	0	0	0	0		0
K	BURNET	0	0	0	0	0	0	0		0
K	COLORADO	0	0	0	0	0	0	0	4,971	4,971
K	FAYETTE	19,205	49,211	15,102	22,291	14,553	9,338	49,211		49,211
K	GILLESPIE	0	0	0	0	0	0	0		0
K	HAYS	0	0	0	1,187	978	1,949	1,187		1,187
K	LLANO	2	2	2	1	6	10	6		6
K	MATAGORDA	44,314	3,389	80,536	45,132	37,051	67,454	80,536		80,536
K	MILLS	0	0	0	0	0	0	0		0
K	SAN SABA	0	0	0	0	0	0	0		0
K	TRAVIS	3,001	10,089	4,931	4,277	3,794	2,321	10,089	164	10,253
K	WHARTON	0	0	0	0	1	3	1	5,464	5,465
K	WILLIAMSON	0	0	0	0	0	0	0		0
Region Total		70,013	70,337	106,997	78,437	63,172	88,839	148,676	13,241	161,917

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Steam-Electric Water Demand Projections for 2021 Plan in AFY, compared to 2017 State Water Plan Projections:

Region	County	2017 SWP Projections						2021 RWP Draft Projections	
		2020	2030	2040	2050	2060	2070	2020	2070
K	BASTROP	14,000	16,720	16,720	16,720	16,720	16,720	10,288	10,288
K	BLANCO	0	0	0	0	0	0	0	0
K	BURNET	0	0	0	0	0	0	0	0
K	COLORADO	0	0	0	0	0	0	4,971	4,971
K	FAYETTE	35,702	35,702	37,802	44,102	48,602	53,402	49,211	49,211
K	GILLESPIE	0	0	0	0	0	0	0	0
K	HAYS	0	0	0	0	0	0	1,187	1,187
K	LLANO	2,500	2,500	2,500	2,500	2,500	2,500	6	6
K	MATAGORDA	105,000	105,000	105,000	105,000	105,000	105,000	80,536	80,536
K	MILLS	0	0	0	0	0	0	0	0
K	SAN SABA	0	0	0	0	0	0	0	0
K	TRAVIS	18,500	22,500	22,500	23,500	24,500	26,500	10,253	10,253
K	WHARTON	2,751	2,813	2,888	2,980	3,091	3,197	5,465	5,465
K	WILLIAMSON	0	0	0	0	0	0	0	0
Region Total		178,453	185,235	187,410	194,802	200,413	207,319	161,917	161,917

Region K

Page 23



8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Steam-Electric

– Revisions needed for Llano County and Wharton County, based on reporting and location discrepancies.

Region	County	2021 RWP Draft Projections						2021 RWP Draft Projections-Revisions					
		2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
K	BASTROP	10,288	10,288	10,288	10,288	10,288	10,288						
K	BLANCO	-	-	-	-	-	-						
K	BURNET	-	-	-	-	-	-						
K	COLORADO	4,971	4,971	4,971	4,971	4,971	4,971						
K	FAYETTE	49,211	49,211	49,211	49,211	49,211	49,211						
K	GILLESPIE	-	-	-	-	-	-						
K	HAYS	1,187	1,187	1,187	1,187	1,187	1,187						
K	LLANO	6	6	6	6	6	6	669	669	669	669	669	669
K	MATAGORDA	80,536	80,536	80,536	80,536	80,536	80,536						
K	MILLS	-	-	-	-	-	-						
K	SAN SABA	-	-	-	-	-	-						
K	TRAVIS	10,253	10,253	10,253	10,253	10,253	10,253						
K	WHARTON	5,465	5,465	5,465	5,465	5,465	5,465	7,901	7,901	7,901	7,901	7,901	7,901
K	WILLIAMSON	-	-	-	-	-	-						
Region K Total		161,917	161,917	161,917	161,917	161,917	161,917	165,016	165,016	165,016	165,016	165,016	165,016

Region K

Page 24



8c. Presentation of Non-Municipal Demand Projection Requested Revisions

- ▼ Mining
- ▼ Historical mining water use estimates broken down into fresh, reuse, and brackish groundwater

Region	County	Fresh (Groundwater + Surface water)					Reuse					Brackish							
		2010	2011	2012	2013	2014	2015	2010	2011	2012	2013	2014	2015	2010	2011	2012	2013	2014	2015
K	BASTROP	2,178	2,157	45	44	37	44	-	-	-	-	1	-	-	-	-	-	-	-
K	BLANCO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K	BURNET	3,550	3,226	33	16	42	45	4	3	2	2	7	6	-	-	-	-	-	
K	COLORADO	4,163	3,182	3,916	4,206	4,009	4,009	-	-	-	-	-	-	-	-	-	-	-	
K	FAYETTE	124	229	107	194	512	216	-	-	-	-	-	-	-	25	49	128	53	
K	GILLESPIE	3	4	5	9	12	5	-	-	-	-	-	-	-	-	-	-	-	
K	HAYS	1,023	975	493	374	373	300	-	-	-	-	-	-	-	-	-	-	-	
K	LLANO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
K	MATAGORDA	67	49	-	8	-	1	-	-	-	-	-	-	-	-	-	-	-	
K	MILLS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
K	SAN SABA	814	777	13	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
K	TRAVIS	3,025	2,521	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
K	WHARTON	58	42	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	
K	WILLIAMSON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

- ▼ Reminder that mining demand totals by county have not changed from the 2017 State Water Plan:

RWPG	County	WUG Name	Water Demands 2020	Water Demands 2030	Water Demands 2040	Water Demands 2050	Water Demands 2060	Water Demands 2070
K	BASTROP	MINING	2,884	6,813	7,498	8,263	9,085	9,996
K	BLANCO	MINING	5	5	5	5	5	5
K	BURNET	MINING	4,490	5,412	6,379	7,255	8,263	9,412
K	COLORADO	MINING	5,325	5,378	5,433	5,487	5,542	5,597
K	FAYETTE	MINING	2,526	2,032	1,465	918	359	350
K	GILLESPIE	MINING	4	4	4	4	4	4
K	HAYS	MINING	845	1,075	1,361	1,445	1,654	1,893
K	LLANO	MINING	3	3	3	3	3	3
K	MATAGORDA	MINING	96	100	75	55	35	22
K	MILLS	MINING	4	4	4	4	4	4
K	SAN SABA	MINING	1,088	1,093	944	900	864	838
K	TRAVIS	MINING	3,502	4,108	4,762	5,374	6,046	6,817
K	WHARTON	MINING	71	74	55	41	26	17
K	WILLIAMSON	MINING	5	3	3	3	3	3
K	TOTAL	MINING	20,848	26,104	27,991	29,757	31,893	34,961

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Mining

- Committee discussed potential revisions for Bastrop County, Burnet County, and Matagorda County.
 - Burnet County – Central Texas GCD thought the draft projections are reasonable.
 - Matagorda County – Historical data that may have supported a change was based on incorrect water use survey data entry for 2014 and 2015.
 - Bastrop County – Committee thinks it's unlikely that increased mining will occur for the next 50 years. Directed AECOM and James Kowis to develop revised projections for consideration by RWPG.

County	WUG Name	Draft Projections for DB22						RWPG Requested Changes					
		Water Demands 2020	Water Demands 2030	Water Demands 2040	Water Demands 2050	Water Demands 2060	Water Demands 2070	Water Demands 2020	Water Demands 2030	Water Demands 2040	Water Demands 2050	Water Demands 2060	Water Demands 2070
BASTROP	MINING	2,884	6,813	7,498	8,263	9,085	9,996	2,884	6,813	7,498	5,998	399	476

Region K Page 27

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Manufacturing Water Demand Projections

▼ Methodology:

- 2020 projections - highest water use from 2010-2014; 2030 projections - use TWC employee growth projections; keep 2030-2070 constant

Region	County	Historical Use Estimates (AFY)						2010-2014	2010-2015
		2010	2011	2012	2013	2014	2015	Peak	Peak
K	BASTROP	79	104	82	83	93	98	104	104
K	BLANCO	0	0	0	0	0	0	0	0
K	BURNET	230	251	171	157	145	138	251	251
K	COLORADO	844	849	960	769	520	532	960	960
K	FAYETTE	187	285	280	254	325	363	325	363
K	GILLESPIE	6	14	14	21	19	19	21	21
K	HAYS	109	120	149	130	149	134	149	149
K	LLANO	3	3	3	3	3	3	3	3
K	MATAGORDA	3,505	4,199	3,791	3,966	3,904	3,953	4,199	4,199
K	MILLS	2	1	2	2	2	2	2	2
K	SAN SABA	5	5	10	4	5	5	10	10
K	TRAVIS	9,436	10,198	11,193	11,597	10,917	11,801	11,597	11,801
K	WHARTON	148	150	148	156	151	49	156	156
K	WILLIAMSON	8	3	4	4	18	10	18	18
	Region Total	14,562	16,182	16,807	17,146	16,251	17,107	17,795	18,037

Region K Page 28

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Manufacturing Water Demand Projections for 2021 Plan in AFY, compared to 2017 State Water Plan Projections:

Region	County	2017 SWP Projections						2021 RWP Draft Projections		
		2020	2030	2040	2050	2060	2070	2020	2030	2070
K	BASTROP	194	227	262	295	319	345	104	119	119
K	BLANCO	20	20	20	20	20	20	0	0	0
K	BURNET	1,109	1,248	1,384	1,502	1,636	1,782	251	299	299
K	COLORADO	383	409	433	453	489	528	960	1,132	1,132
K	FAYETTE	358	395	431	462	501	543	325	363	363
K	GILLESPIE	1,049	1,102	1,151	1,192	1,276	1,366	21	25	25
K	HAYS	347	398	449	495	537	583	149	174	174
K	LLANO	3	3	3	3	3	3	3	4	4
K	MATAGORDA	16,253	16,991	17,686	18,259	19,267	20,342	4,199	4,916	4,916
K	MILLS	2	2	2	2	2	2	2	2	2
K	SAN SABA	8	8	8	8	8	8	10	12	12
K	TRAVIS	35,790	48,710	63,858	72,991	81,781	91,630	11,597	13,085	13,085
K	WHARTON	503	537	572	601	648	699	156	171	171
K	WILLIAMSON	0	0	0	0	0	0	3	4	4
Region Total		56,019	70,050	86,259	96,283	106,487	117,851	17,780	20,306	20,306

Region K

Page 29

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8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Manufacturing

– TWDB provided Potential Unaccounted Manufacturing Water Use in 2015.

Region	County	Historical Use Estimates						Potential Unaccounted Manufacturing Water Use in 2015 (in ACF)	New 2015 (with unaccounted water use)	Peak (2010-2015)
		2010	2011	2012	2013	2014	2015			
K	BASTROP	79	104	82	83	93	98	90	188	188
K	BLANCO	0	0	0	0	0	0	0	0	0
K	BURNET	230	251	171	157	145	138	0	138	251
K	COLORADO	844	849	960	769	520	532	0	532	960
K	FAYETTE	187	285	280	254	325	363	33	396	396
K	GILLESPIE	6	14	14	21	19	19	58	77	77
K	HAYS	109	120	149	130	149	134	143	277	277
K	LLANO	3	3	3	3	3	3	0	3	3
K	MATAGORDA	3,505	4,199	3,791	3,966	3,904	3,953	149	4,102	4,199
K	MILLS	2	1	2	2	2	2	0	2	2
K	SAN SABA	5	5	10	4	5	5	0	5	10
K	TRAVIS	9,436	10,198	11,193	11,597	10,917	11,801	1,363	13,164	13,164
K	WHARTON	148	150	148	156	151	49	29	78	156
K	WILLIAMSON	8	3	4	4	18	10	15	25	25

Region K

Page 30

AECOM

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

- ▼ Manufacturing – potential revisions based on using 2015 as the peak year where the unaccounted for water loss makes the water demand larger than 2010-2014

County	2021 RWP Draft Projections						2021 RWP Draft Projections-Revisions						Comment
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	
BASTROP	104	119	119	119	119	119	188	215	215	215	215	215	Use 2015 water use with unaccounted volume.
BLANCO	0	0	0	0	0	0	0	0	0	0	0	0	
BURNET	251	299	299	299	299	299	251	299	299	299	299	299	
COLORADO	960	1,132	1,132	1,132	1,132	1,132	960	1,132	1,132	1,132	1,132	1,132	
FAYETTE	325	363	363	363	363	363	396	442	442	442	442	442	Use 2015 water use with unaccounted volume.
GILLESPIE	21	25	25	25	25	25	77	93	93	93	93	93	Use 2015 water use with unaccounted volume.
HAYS	149	174	174	174	174	174	277	324	324	324	324	324	Use 2015 water use with unaccounted volume.
LLANO	3	4	4	4	4	4	3	4	4	4	4	4	
MATAGORDA	4,199	4,916	4,916	4,916	4,916	4,916	4,199	4,916	4,916	4,916	4,916	4,916	
MILLS	2	2	2	2	2	2	2	2	2	2	2	2	
SAN SABA	10	12	12	12	12	12	10	12	12	12	12	12	
TRAVIS	11,597	13,085	13,085	13,085	13,085	13,085	13,164	14,853	14,853	14,853	14,853	14,853	Use 2015 water use with unaccounted volume.
WHARTON	156	171	171	171	171	171	156	171	171	171	171	171	
WILLIAMSON	3	4	4	4	4	4	25	30	30	30	30	30	Use 2015 water use with unaccounted volume.

Region K

Page 31

AECOM

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

- ▼ Manufacturing
 - In addition, City of Austin has requested revisions to the Travis County manufacturing demands. (see handout from COA)

Travis County Manufacturing Demand Comparison between City of Austin and TWDB						
	2020	2030	2040	2050	2060	2070
COA Industrial Employment Projections (No. of employees)	72,543	93,799	115,055	126,965	162,527	198,088
COA Adjusted Manuf. Projections (AFY)*	7,505	10,951	14,397	15,589	16,781	17,974
Draft TWDB Projections: Travis and Potential Unaccounted (AFY)	12,960	14,448	14,448	14,448	14,448	14,448
Difference in Projections (AFY)	(5,456)	(3,498)	(52)	1,141	2,333	3,525
Requested Revision (AFY)	N/A	N/A	17,894	19,087	20,279	21,471

Region K

Page 32

AECOM

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Manufacturing

– Incorporating City of Austin request into revisions using 2015 demands:

County	2021 RWP Draft Projections						2021 RWP Draft Projections-Revisions						Comment
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	
BASTROP	104	119	119	119	119	119	188	215	215	215	215	215	Use 2015 water use with unaccounted volume.
BLANCO	0	0	0	0	0	0	0	0	0	0	0	0	
BURNET	251	299	299	299	299	299	251	299	299	299	299	299	
COLORADO	960	1,132	1,132	1,132	1,132	1,132	960	1,132	1,132	1,132	1,132	1,132	
FAYETTE	325	363	363	363	363	363	396	442	442	442	442	442	Use 2015 water use with unaccounted volume.
GILLESPIE	21	25	25	25	25	25	77	93	93	93	93	93	Use 2015 water use with unaccounted volume.
HAYS	149	174	174	174	174	174	277	324	324	324	324	324	Use 2015 water use with unaccounted volume.
LLANO	3	4	4	4	4	4	3	4	4	4	4	4	
MATAGORDA	4,199	4,916	4,916	4,916	4,916	4,916	4,199	4,916	4,916	4,916	4,916	4,916	
MILLS	2	2	2	2	2	2	2	2	2	2	2	2	
SAN SABA	10	12	12	12	12	12	10	12	12	12	12	12	
TRAVIS	11,597	13,085	13,085	13,085	13,085	13,085	13,164	14,853	18,299	19,491	20,683	21,876	Use 2015 water use with unaccounted volume and City of Austin calculated increase.
WHARTON	156	171	171	171	171	171	156	171	171	171	171	171	
WILLIAMSON	3	4	4	4	4	4	25	30	30	30	30	30	Use 2015 water use with unaccounted volume.

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Irrigation Water Demand Projections

▼ Methodology:

– Baseline: Average historical water use over the 5-year period (2010 – 2014), constant between 2020 and 2070.

Region	County	Historical Use Estimates (AFY)						2010-2014 Average	2010-2015 Average
		2010	2011	2012	2013	2014	2015		
K	BASTROP	7,049	5,061	3,781	3,064	2,444	3,204	4,280	4,101
K	BLANCO	369	357	2,150	1,825	1,932	1,339	1,327	1,329
K	BURNET	1,500	1,075	1,841	1,477	1,595	2,020	1,498	1,585
K	COLORADO	150,038	214,548	87,518	82,916	83,390	68,956	123,682	114,561
K	FAYETTE	325	1,655	1,167	494	499	472	828	769
K	GILLESPIE	1,461	3,465	2,280	2,278	2,429	2,564	2,383	2,413
K	HAYS	510	687	593	357	479	433	525	510
K	LLANO	335	2,420	921	714	601	599	998	932
K	MATAGORDA	161,116	243,000	47,983	58,303	37,122	43,251	109,505	98,463
K	MILLS	4,233	5,498	5,218	4,238	4,529	5,934	4,743	4,942
K	SAN SABA	5,691	7,900	7,494	6,933	7,975	7,012	7,199	7,168
K	TRAVIS	3,725	5,880	4,526	6,497	9,424	11,327	6,010	6,897
K	WHARTON	166,632	267,611	99,034	104,039	100,401	80,361	147,543	136,346
K	WILLIAMSON	0	0	0	0	0	0	0	0
Region Total		502,984	759,157	264,506	273,135	252,820	227,472	410,520	380,012

8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Draft Irrigation Water Demand Projections for 2021 Plan in AFY, compared to 2017 State Water Plan Projections:

Region	County	2017 SWP Projections					2021 RWP Draft Projections		
		2020	2030	2040	2050	2060	2070	2020	2070
K	BASTROP	852	742	649	565	492	443	4,280	4,280
K	BLANCO	256	240	225	217	213	204	1,327	1,327
K	BURNET	1,504	1,504	1,504	1,504	1,504	1,504	1,498	1,498
K	COLORADO	165,846	161,385	157,044	152,819	148,709	144,708	123,682	123,682
K	FAYETTE	623	583	545	511	480	453	828	828
K	GILLESPIE	2,058	2,031	2,003	1,978	1,953	1,928	2,383	2,383
K	HAYS	107	107	107	107	107	107	525	525
K	LLANO	1,936	1,902	1,870	1,840	1,810	1,781	998	998
K	MATAGORDA	209,087	203,382	197,830	192,428	187,171	182,055	109,505	109,505
K	MILLS	3,074	3,008	2,943	2,879	2,817	2,759	4,743	4,743
K	SAN SABA	5,539	5,361	5,188	5,018	4,856	4,709	7,199	7,199
K	TRAVIS	4,322	3,975	3,657	3,364	3,097	2,885	6,010	6,010
K	WHARTON	212,229	206,520	200,965	195,559	190,298	185,179	147,543	147,543
K	WILLIAMSON	0	0	0	0	0	0	0	0
Region Total		607,433	590,740	574,530	558,789	543,507	528,715	410,521	410,521

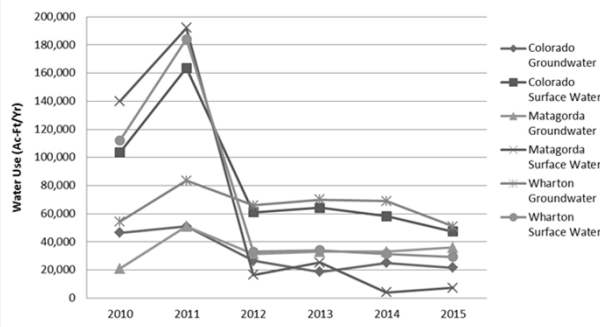
Region K

Page 35



8c. Presentation of Non-Municipal Demand Projection Requested Revisions

Historical Irrigation Water Use by Water Source for Colorado, Matagorda, and Wharton Counties (Ac-Ft/Yr)



Region	County / Water Source	2010	2011	2012	2013	2014	2015	2010-2014 Average GW
K	Colorado Groundwater	46,451	50,965	26,535	18,658	25,090	21,687	33,540
K	Colorado Surface Water	103,587	163,583	60,983	64,258	58,300	47,269	
K	Matagorda Groundwater	21,014	51,000	31,559	33,069	32,955	35,943	33,919
K	Matagorda Surface Water	140,102	192,000	16,424	25,234	4,167	7,308	
K	Wharton Groundwater	54,435	83,437	66,042	69,932	68,938	50,983	68,557
K	Wharton Surface Water	112,197	184,174	32,992	34,107	31,463	29,378	



8c. Presentation of Non-Municipal Demand Projection Requested Revisions

▼ Irrigation

- Committee discussed Travis County historical irrigation increases. TWDB discovered an error in the historical data for 2013-2015, which impacts the average used for the projections.
 - Region K will need to request a revision of Travis County's irrigation demands from 6,010 AFY to 4,816 AFY for 2020-2070.
- Committee discussed projected irrigation demands for Colorado, Wharton, and Matagorda counties.
 - Committee came to a consensus that using the years 2010-2015 for analysis is not a good option for the surface water component of the irrigation demand.
 - Committee noted that historical groundwater use for that period remained fairly constant, so the RWPG can consider using the 2010-2014 average for the groundwater portion of the demand.
 - Committee directed David Wheelock and Daniel Berglund to develop a methodology and data based on acreage and irrigation rates to bring to the RWPG for consideration.

8d. Identification of Remaining Potential Revisions

▼ Municipal

- Bertram in Burnet County
- WUGs in Hays County, Travis County, and Williamson County
- Others identified today?

▼ Non-Municipal

- Water use categories not ready for approval today (Irrigation, others?)
- Other potential revisions identified?

▼ May receive additional requests prior to January meeting

Agenda

9. Other Committee Reports (as needed)
10. Agenda items for next meeting
11. New / Other Business
12. Public Comments
13. Adjourn