



GROUNDWATER COMMITTEE MEETING

10:00 A.M. – January 17, 2024

BRAZOS RIVER AUTHORITY

4600 COBBS DR., WACO, TX 76710



1. CALL MEETING TO ORDER

2. INVOCATION

3. NOTICE OF MEETING

4. ATTENDANCE AND ANNOUNCEMENTS

5. PUBLIC INPUT (limited to 5 minutes each)



Groundwater Availability Analysis

Prepared for
Brazos G Groundwater Committee

Advanced Groundwater Solutions, LLC

January 17, 2024



Outline

- Agenda Item 6: Review of summary groundwater availability information for Technical Memorandum
- Agenda Item 7: Discussion and possible action on changes in MAG availabilities and recommendations
- Agenda Item 8: Discussion and possible action on changes in non-MAG availabilities and recommendations
- Agenda Item 9: Discussion and possible action on recommendations for allocations of limited groundwater supplies
- Agenda Item 10: Discussion and possible action on recommendations for allocations of unallocated groundwater supplies

Agenda Item 6

- Review of Summary Groundwater Availability Information for Technical Memorandum

Groundwater Availability

- Groundwater produced from 6 major and 11 minor aquifers, plus several “other” aquifers
- Groundwater availability in Region G is 803,148 - 903,575 afy thru 2080
- Total increase of 5% to 14% but some decreases from last planning cycle
- **Increases and decreases in availability are highly variable**
- Total availability is MAG + non-MAG
- MAG cannot be changed. No GCDs have expressed any interest in using a MAG Peak Factor.

Groundwater Availability (by decade)

Aquifer	Total Availability 2030	Total Availability 2040	Total Availability 2050	Total Availability 2060	Total Availability 2070	Total Availability 2080
MAJOR AQUIFERS						
Carrizo-Wilcox Aquifer	211,518	239,239	261,735	280,855	299,966	299,958
Edwards-BFZ Aquifer	9,921	9,921	9,921	9,921	9,921	9,921
Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers	1,182	1,182	1,182	1,182	1,182	1,182
Gulf Coast Aquifer System	93,073	93,073	93,073	93,073	93,073	93,073
Seymour Aquifer	79,122	78,820	79,353	82,099	79,461	79,182
Trinity Aquifer	125,328	125,328	125,328	125,328	125,328	125,328
Major Aquifer Total	520,144	547,563	570,592	592,458	608,931	608,644
MINOR AND OTHER AQUIFERS						
Blaine Aquifer	12,920	12,920	12,920	12,920	12,920	12,920
Brazos River Alluvium Aquifer	223,351	222,490	221,969	221,755	221,588	221,588
Cross Timbers Aquifer	2,714	2,714	2,714	2,714	2,714	2,714
Dockum Aquifer	4,123	3,440	3,056	2,814	2,653	2,653
Ellenburger-San Saba Aquifer	2,595	2,595	2,595	2,595	2,595	2,595
Hickory Aquifer	113	113	113	113	113	113
Marble Falls Aquifer	2,839	2,839	2,839	2,839	2,839	2,839
Navasota River Alluvium Aquifer	2,216	2,216	2,216	2,216	2,216	2,216
Other Aquifer	847	847	847	847	847	847
Queen City Aquifer	5,527	6,486	7,553	8,751	10,108	10,108
Sparta Aquifer	10,001	12,160	14,374	16,652	19,016	19,016
Woodbine Aquifer	2,567	2,567	2,567	2,567	2,567	2,567
Yegua-Jackson Aquifer	13,191	15,702	15,701	15,697	14,755	14,755
Minor Aquifer Total	283,004	287,089	289,464	292,480	294,931	294,931
TOTAL	803,148	834,652	860,056	884,938	903,862	903,575
Total in Last Planning Cycle	766,807	776,348	790,548	796,312	793,176	NA

Changes in Groundwater Availability (by decade)

Aquifer	Total Availability 2030	Total Availability 2040	Total Availability 2050	Total Availability 2060	Total Availability 2070
MAJOR AQUIFERS					
Carrizo-Wilcox Aquifer	27,004	47,307	57,579	73,859	92,978
Edwards-BFZ Aquifer	0	0	0	0	0
Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers	0	0	0	0	0
Gulf Coast Aquifer System	64,857	64,857	64,857	64,857	64,857
Seymour Aquifer	13	2	30	9	37
Trinity Aquifer	4,032	3,696	4,032	3,696	4,032
Major Aquifer Total	95,906	115,862	126,498	142,421	161,904
MINOR AND OTHER AQUIFERS					
Blaine Aquifer	-9,400	-9,435	-9,400	-9,435	-9,400
Brazos River Alluvium Aquifer	-35,173	-35,468	-35,791	-35,899	-35,999
Cross Timbers Aquifer	0	0	0	0	0
Dockum Aquifer	-7,956	-8,639	-9,023	-9,265	-9,426
Ellenburger-San Saba Aquifer	2	-6	2	-6	2
Hickory Aquifer	0	-1	0	-1	0
Marble Falls Aquifer	2	-6	2	-6	2
Navasota River Alluvium Aquifer	0	0	0	0	0
Other Aquifer	0	0	0	0	0
Queen City Aquifer	3,058	3,996	5,040	6,219	7,576
Sparta Aquifer	-2,543	-2,960	-2,873	-596	1,768
Woodbine Aquifer	1	-6	1	-6	1
Yegua-Jackson Aquifer	-7,556	-5,033	-4,948	-4,800	-5,742
Minor Aquifer Total	-59,565	-57,558	-56,990	-53,795	-51,218
TOTAL	36,341	58,304	69,508	88,626	110,686

Decrease in MAG Availabilities

Aquifer Name	County	Basin	2030				2070			
			2022 MAG Availability	2027 MAG Availability	MAG Availability Difference	Percent Change MAG Availability	2022 MAG Availability	2027 MAG Availability	MAG Availability Difference	Percent Change MAG Availability
Brazos River Alluvium Aquifer	Brazos	Brazos	80,311	76,978	(3,333)	-4.15%	79,872	76,039	(3,833)	-4.80%
Brazos River Alluvium Aquifer	Milam	Brazos	47,785	31,375	(16,410)	-34.34%	47,771	31,358	(16,413)	-34.36%
Brazos River Alluvium Aquifer	Robertson	Brazos	57,959	55,424	(2,535)	-4.37%	57,480	54,618	(2,862)	-4.98%
Carrizo-Wilcox Aquifer	Brazos	Brazos	55,977	44,153	(11,824)	-21.12%	65,742	68,184	2,442	3.71%
Carrizo-Wilcox Aquifer	Falls	Brazos	875	46	(829)	-94.74%	895	69	(826)	-92.29%
Carrizo-Wilcox Aquifer	Lee	Colorado	786	785	(1)	-0.13%	1,101	1,219	118	10.72%
Carrizo-Wilcox Aquifer	Limestone	Brazos	11,483	955	(10,528)	-91.68%	11,966	1,415	(10,551)	-88.17%
Queen City Aquifer	Brazos	Brazos	883	245	(638)	-72.25%	891	694	(197)	-22.11%
Queen City Aquifer	Lee	Brazos	713	601	(112)	-15.71%	727	854	127	17.47%
Queen City Aquifer	Robertson	Brazos	309	144	(165)	-53.40%	309	575	266	86.08%
Sparta Aquifer	Brazos	Brazos	6,505	6,014	(491)	-7.55%	8,509	12,138	3,629	42.65%
Sparta Aquifer	Burleson	Brazos	4,042	2,840	(1,202)	-29.74%	6,735	4,105	(2,630)	-39.05%
Sparta Aquifer	Lee	Brazos	1,274	694	(580)	-45.53%	1,256	1,472	216	17.20%
Sparta Aquifer	Lee	Colorado	213	115	(98)	-46.01%	238	279	41	17.23%
Sparta Aquifer	Robertson	Brazos	510	338	(172)	-33.73%	510	1,022	512	100.39%
Trinity Aquifer	Johnson	Brazos	3,888	3,537	(351)	-9.03%	3,888	3,537	(351)	-9.03%
Trinity Aquifer	Johnson	Trinity	5,508	5,288	(220)	-3.99%	5,508	5,288	(220)	-3.99%
Trinity Aquifer	Lampasas	Colorado	75	68	(7)	-9.33%	75	68	(7)	-9.33%
Trinity Aquifer	Somervell	Brazos	3,181	1,988	(1,193)	-37.50%	3,181	1,988	(1,193)	-37.50%
Yegua-Jackson Aquifer	Brazos	Brazos	6,854	6,270	(584)	-8.52%	6,854	7,091	237	3.46%
Yegua-Jackson Aquifer	Burleson	Brazos	12,576	5,315	(7,261)	-57.74%	12,326	6,058	(6,268)	-50.85%

Decrease in Non-MAG Availabilities

Aquifer Name	County	Basin	2030				2070			
			2022 Non-MAG Availability	2027 Non-MAG Availability	Non-MAG Availability Difference	Percent Change Non-MAG Availability	2022 Non-MAG Availability	2027 Non-MAG Availability	Non-MAG Availability Difference	Percent Change Non-MAG Availability
Blaine Aquifer	Knox	Brazos	700	0	(700)	-100.00%	700	0	(700)	-100.00%
Blaine Aquifer	Stonewall	Brazos	8,700	0	(8,700)	-100.00%	8,700	0	(8,700)	-100.00%
Brazos River Alluvium Aquifer	Falls	Brazos	16,684	0	(16,684)	-100.00%	16,684	0	(16,684)	-100.00%
Dockum Aquifer	Kent	Brazos	6,250	29	(6,221)	-99.54%	6,250	29	(6,221)	-99.54%
Dockum Aquifer	Nolan	Brazos	2,824	849	(1,975)	-69.94%	2,824	550	(2,274)	-80.52%
Dockum Aquifer	Nolan	Colorado	2,926	3,166	240	8.20%	2,926	1,995	(931)	-31.82%
Seymour Aquifer	Kent	Brazos	1,180	902	(278)	-23.56%	1,179	902	(277)	-23.49%
Seymour Aquifer	Throckmorton	Brazos	115	3	(112)	-97.39%	115	3	(112)	-97.39%
Seymour Aquifer	Young	Brazos	258	1	(257)	-99.61%	258	1	(257)	-99.61%
Trinity Aquifer	Palo Pinto	Brazos	12	1	(11)	-91.67%	12	1	(11)	-91.67%

Agenda Item 7

- Review and possible action on changes in MAG availabilities and recommendations
- NOTE:
 - Total availability is the availability in the current planning cycle
 - Assigned supplies and water management strategies are from the last planning cycle

Brazos River Alluvium

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Brazos	Brazos	76,978	76,393	76,195	76,100	76,039	76,039
Assigned Supply	Irrigation	Brazos	Brazos	42,298	42,298	42,298	42,298	42,298	--
Water Mgmt. Strategies		Brazos	Brazos	--	--	--	--	--	--
Total Availability		Milam	Brazos	31,375	31,366	31,362	31,359	31,358	31,358
Assigned Supply	Irrigation	Milam	Brazos	4,422	4,422	4,422	4,422	4,422	--
	County-Other	Milam	Brazos	160	160	160	160	160	--
	TOTAL			4,582	4,582	4,582	4,582	4,582	--
Water Mgmt. Strategies		Milam	Brazos	--	--	--	--	--	--
Total Availability		Robertson	Brazos	55,424	55,157	54,839	54,723	54,618	54,618
Assigned Supply	Irrigation	Robertson	Brazos	57,959	57,633	57,544	57,503	57,480	--
Water Mgmt. Strategies		Robertson	Brazos	--	--	--	--	--	--

- Recommend reducing assigned supply in Robertson County.

Carrizo-Wilcox

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Brazos	Brazos	44,153	50,160	56,168	62,176	68,184	68,184
Assigned Supply	Municipal Utilities (5)	Brazos	Brazos	43,794	43,794	43,794	43,793	43,792	--
	County-Other	Brazos	Brazos	30	30	30	30	30	--
	Irrigation	Brazos	Brazos	1,673	1,673	1,673	1,673	1,673	--
	Manufacturing	Brazos	Brazos	758	758	758	759	760	--
	Steam-electric Power	Brazos	Brazos	133	133	133	133	133	--
	TOTAL			46,388	46,388	46,388	46,388	46,388	--
Water Mgmt. Strategies	GW for Bryan	Brazos	Brazos	7,501	7,501	7,501	7,501	7,501	--
	GW for College Station	Brazos	Brazos	0	5,234	9,695	9,796	9,796	--
	TOTAL			7,501	12,735	17,196	17,297	17,297	--
Total Availability		Falls	Brazos	46	50	56	62	69	69
Assigned Supply	Tri County SUD	Falls	Brazos	518	524	530	530	530	--
	County-Other	Falls	Brazos	357	360	365	365	365	--
	TOTAL			875	884	895	895	895	--
Water Mgmt. Strategies	WTP Upgrade	Falls	Brazos	53	53	53	53	53	--
Total Availability		Lee	Colorado	785	893	1,001	1,110	1,219	1,219
Assigned Supply	Irrigation	Lee	Colorado	4	5	6	6	6	--
	Manufacturing	Lee	Colorado	14	15	16	17	18	--
	TOTAL			18	20	22	23	24	--
Water Mgmt. Strategies		Lee	Colorado	--	--	--	--	--	--

Carrizo-Wilcox

Total Availability		Limestone	Brazos	955	1,054	1,162	1,282	1,415	1,415
Assigned Supply	Municipal Utilities (7)	Limestone	Brazos	2,287	2,287	2,287	2,286	2,286	--
	County-Other	Limestone	Brazos	252	252	252	252	252	--
	Irrigation	Limestone	Brazos	7	7	7	7	7	--
	Manufacturing	Limestone	Brazos	44	44	44	45	45	--
	Mining	Limestone	Brazos	3,158	3,158	3,158	3,158	3,158	--
	Steam-electric Power	Limestone	Brazos	711	711	711	711	711	--
	TOTAL				6,459	6,459	6,459	6,459	6,459
Water Mgmt. Strategies	WTP Upgrade	Limestone	Brazos	268	268	268	268	268	--
	GW for Bistone	Limestone	Brazos	0	0	0	460	460	--
	Purchase GW from Mexia	Limestone	Brazos	17	21	25	0	0	--
	GW for Mfg.	Limestone	Brazos	314	314	314	314	314	--
	GW for Power	Limestone	Brazos	388	388	388	388	388	--
	TOTAL				987	991	995	1,430	1,430

Carrizo-Wilcox

- Limestone County- from the TWDB:
 - Not appropriate for a MAG Peak Factor
 - MAG must be fixed by GMA 12
 - Consider assigning MAG to existing supplies as best as possible (*Note: supplies will not be realistic given how much the MAG decreased*)
 - Brazos G may have unmet municipal needs in the plan
 - Possibly utilize alternative strategies
- **Recommend** proportionally reducing assigned supplies
- **Recommend** designating all Brazos, Falls and Limestone County WMSs as alternative strategies, add descriptive narrative to Chapter 3 discussion on groundwater availabilities, and citations of Chapter 3 to each alternative WMS for which this applies.

Queen City

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Brazos	Brazos	245	357	469	582	694	694
Assigned Supply	County-Other	Brazos	Brazos	400	400	400	400	400	--
Water Mgmt. Strategies		Brazos	Brazos	--	--	--	--	--	--
Total Availability		Lee	Brazos	601	656	717	783	854	854
Assigned Supply	Lee County WSC	Lee	Brazos	133	134	135	136	136	--
	Irrigation	Lee	Brazos	580	582	586	591	591	--
	TOTAL			713	716	721	727	727	--
Water Mgmt. Strategies		Lee	Brazos	--	--	--	--	--	--
Total Availability		Robertson	Brazos	144	252	359	467	575	575
Assigned Supply	Irrigation	Robertson	Brazos	309	309	309	309	309	--
Water Mgmt. Strategies		Robertson	Brazos	--	--	--	--	--	--

- Recommend proportionally reducing assigned supplies

Sparta

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Brazos	Brazos	6,014	7,545	9,076	10,607	12,138	12,138
Assigned Supply	Texas A&M University	Brazos	Brazos	995	1,015	1,015	1,015	1,015	--
	College Station	Brazos	Brazos	727	742	742	742	742	--
	Wellborn SUD	Brazos	Brazos	748	765	765	765	765	--
	Wickson Creek SUD	Brazos	Brazos	1,450	1,480	1,480	1,480	1,480	--
	Irrigation	Brazos	Brazos	413	421	421	421	421	--
	Manufacturing	Brazos	Brazos	2,061	2,103	2,103	2,103	2,103	--
	Steam-electric Power	Brazos	Brazos	111	113	113	113	113	--
	TOTAL			6,505	6,639	6,639	6,639	6,639	--
Water Mgmt. Strategies	Sparta Development	Brazos	Brazos	0	638	638	638	638	--
Total Availability		Burleson	Brazos	2,840	3,131	3,437	3,760	4,105	4,105
Assigned Supply	Snook	Burleson	Brazos	494	494	494	494	494	--
	Sommerville	Burleson	Brazos	891	891	891	891	891	
	Manufacturing	Burleson	Brazos	111	111	111	111	111	
		TOTAL			1,496	1,496	1,496	1,496	1,496
Water Mgmt. Strategies	Williamson Co. GW- South	Burleson	Brazos	2,137	4,092	4,605	4,741	4,878	--
	Sparta Development	Burleson	Brazos	25	25	25	25	25	
		TOTAL			2,162	4,117	4,630	4,766	4,903

Sparta

Total Availability		Lee	Brazos	694	833	1,003	1,212	1,472	1,472
Assigned Supply	Lee County WSC	Lee	Brazos	272	272	272	272	272	--
Water Mgmt. Strategies	Williamson Co. GW- South	Lee	Brazos	0	0	33	37	42	--
Total Availability		Lee	Colorado	115	142	178	222	279	279
Assigned Supply		Lee	Colorado	0	0	0	0	0	--
Water Mgmt. Strategies		Lee	Colorado	--	--	--	--	--	--
Total Availability		Robertson	Brazos	338	509	680	851	1,022	1022
Assigned Supply	Irrigation	Robertson	Brazos	510	510	510	510	510	--
Water Mgmt. Strategies		Robertson	Brazos	--	--	--	--	--	--

- **Recommend** proportionally reducing assigned supplies
- **Recommend** designating the Williamson County Groundwater-South Option as an alternative strategy (insufficient availability in both the Sparta and Yegua-Jackson)

Trinity

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Johnson	Brazos	3,537	3,537	3,537	3,537	3,537	3,537
Assigned Supply	Cleburne	Johnson	Brazos	789	789	789	789	789	--
	Godley	Johnson	Brazos	99	99	99	99	99	--
	Parker WSC	Johnson	Brazos	274	274	274	274	274	--
	Rio Vista	Johnson	Brazos	334	334	334	334	334	--
	Irrigation	Johnson	Brazos	152	152	152	152	152	--
	Manufacturing	Johnson	Brazos	194	194	194	194	194	--
	TOTAL			1,842	1,842	1,842	1,842	1,842	--
Water Mgmt. Strategies	Trinity Development	Johnson	Brazos	12	22	35	834	1,937	--
Total Availability		Johnson	Trinity	5,288	5,288	5,288	5,288	5,288	5,288
Assigned Supply	Alvarado	Johnson	Trinity	195	196	195	196	195	--
	Dethany WSC	Johnson	Trinity	308	309	308	309	308	--
	Bethesda WSC	Johnson	Trinity	579	580	579	580	579	--
	Johnson County SUD	Johnson	Trinity	1,542	1,546	1,542	1,546	1,542	--
	Keene	Johnson	Trinity	326	327	326	327	326	--
	Mountain Peak SUD	Johnson	Trinity	1,064	1,068	1,064	1,068	1,064	--
	Mountain WSC	Johnson	Trinity	73	73	73	73	73	--
	County-Other	Johnson	Trinity	7	7	7	7	7	--
	Irrigation	Johnson	Trinity	15	15	15	15	15	--
	Mining	Johnson	Trinity	1,399	1,403	1,399	1,403	1,399	--
	TOTAL			5,508	5,524	5,508	5,524	5,508	--
Water Mgmt. Strategies		Johnson	Trinity	--	--	--	--	--	--

Trinity

Total Availability		Lampasas	Colorado	68	68	68	68	68	68
Assigned Supply	Irrigation	Lampasas	Colorado	8	8	8	8	8	--
Water Mgmt. Strategies		Lampasas	Colorado	--	--	--	--	--	--
Total Availability		Somervell	Brazos	1,988	1,988	1,988	1,988	1,988	1,988
Assigned Supply	Glen Rose	Somervell	Brazos	613	613	613	613	613	--
	Somervell County WD	Somervell	Brazos	192	192	192	192	192	--
	County-Other	Somervell	Brazos	644	644	644	644	644	--
	Irrigation	Somervell	Brazos	582	582	582	582	582	--
	Manufacturing	Somervell	Brazos	8	8	8	8	8	--
	Mining	Somervell	Brazos	691	691	691	691	691	--
	Steam-electric Power	Somervell	Brazos	25	25	25	25	25	--
	TOTAL			2,755	2,755	2,755	2,755	2,755	--
Water Mgmt. Strategies	Trinity Development	Somervell	Brazos	426	426	426	426	426	--
	Somervell Co. WSP Surplus	Somervell	Brazos	133	133	133	133	133	--
		TOTAL							

- **Recommend** proportionally reducing assigned supplies
- **Recommend** designating the Trinity Aquifer Development (Johnson County) as an alternative strategy (insufficient availability in the Trinity in 2070)

Yegua-Jackson

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Brazos	Brazos	6,270	7,092	7,091	7,091	7,091	7,091
Assigned Supply	Wellborn SUD	Brazos	Brazos	751	751	751	751	751	
	Irrigation	Brazos	Brazos	837	837	837	837	837	
	Mining	Brazos	Brazos	1,640	1,640	1,640	1,640	1,640	
	TOTAL			3,228	3,228	3,228	3,228	3,228	--
Water Mgmt. Strategies		Brazos	Brazos	--	--	--	--	--	--
Total Availability		Burleson	Brazos	5,315	7,004	7,004	7,000	6,058	6,058
Assigned Supply	Irrigation	Burleson	Brazos	974	974	974	974	974	--
	Mining	Burleson	Brazos	2,018	2,018	2,018	2,018	2,018	--
	TOTAL			2,992	2,992	2,992	2,992	2,992	--
Water Mgmt. Strategies	Williamson Co. GW- South	Burleson	Brazos	588	5,983	5,983	5,983	5,983	--

- Recommend designating the Williamson County Groundwater-South Option as an alternative strategy (insufficient availability in both the Sparta and Yegua-Jackson)

Agenda Item 8

- Review and possible action on changes in non-MAG availabilities and recommendations
- NOTE:
 - Total availability is the availability in the current planning cycle
 - Assigned supplies and water management strategies are from the last planning cycle

Brazos River Alluvium

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Falls	Brazos	0	0	0	0	0	0
Assigned Supply	Irrigation	Falls	Brazos	8,656	8,656	8,656	8,656	8,656	--
	Mining	Falls	Brazos	98	98	98	98	98	--
	TOTAL			8,754	8,754	8,754	8,754	8,754	--
Water Mgmt. Strategies	Irrigation Reallocation	Falls	Brazos	136	143	168	188	210	--

- **Recommend** requesting that the TWDB restore the previous non-MAG availability in Falls County.
 - Eliminate assigned supply and designate WMS as alternative if request is denied.

NOTE: GMA 8 designated this aquifer as non-relevant due to “limited use”. Previous availability was 16,684 afy. Historic use approximately 8,000 afy.

Blaine

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Knox	Brazos	0	0	0	0	0	0
Assigned Supply	County-Other	Knox	Brazos	100	100	100	100	100	
	Irrigation	Knox	Brazos	90	90	90	90	90	
	Manufacturing	Knox	Brazos	4	4	4	4	4	
	Mining	Knox	Brazos	5	5	5	5	5	
	TOTAL			199	199	199	199	199	--
Water Mgmt. Strategies	Blaine Development	Knox	Brazos	455	455	455	455	455	--
Total Availability		Stonewall	Brazos	0	0	0	0	0	0
Assigned Supply	County-Other	Stonewall	Brazos	70	70	70	70	70	--
	Irrigation	Stonewall	Brazos	83	83	83	83	83	
	Mining	Stonewall	Brazos	194	194	194	194	194	--
	TOTAL			347	347	347	347	347	--
Water Mgmt. Strategies	Blaine Development	Stonewall	Brazos	428	428	428	428	428	--

- **Recommend** requesting that the TWDB restore previous availability non-MAG availability in both counties.
 - Eliminate assigned supplies and designate WMS as alternative if request is denied

NOTE: GMA 6 designated this aquifer as non-relevant due to no GCD being present. Previous availability was 8,700 afy (Stonewall) and 700 afy (Knox). Historic use was approximately 8,000 afy.

Dockum

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Kent	Brazos	29	29	29	29	29	29
Assigned Supply	Irrigation	Kent	Brazos	1,559	1,559	1,559	1,559	1,559	--
Water Mgmt. Strategies		Kent	Brazos	--	--	--	--	--	--
Total Availability		Nolan	Brazos	849	688	622	580	550	550
Assigned Supply	Municipal Utilities (4)	Nolan	Brazos	690	692	694	694	694	--
	County-Other	Nolan	Brazos	187	187	187	187	187	--
	Irrigation	Nolan	Brazos	1,582	1,582	1,582	1,582	1,582	--
	Manufacturing	Nolan	Brazos	365	363	361	361	361	--
	TOTAL			2,824	2,824	2,824	2,824	2,824	2,824
Water Mgmt. Strategies		Nolan	Brazos	--	--	--	--	--	--
Total Availability		Nolan	Colorado	3,166	2,644	2,326	2,126	1,995	1,995
Assigned Supply	Sweetwater	Nolan	Colorado	1,318	1,318	1,318	1,318	1,318	--
	Irrigation	Nolan	Colorado	1,608	1,608	1,608	1,608	1,608	--
	TOTAL			2,926	2,926	2,926	2,926	2,926	--
Water Mgmt. Strategies		Nolan	Colorado	--	--	--	--	--	--

- **Recommend** requesting that the TWDB restore previous availability non-MAG availability in both counties.
 - Proportionally reduce assigned supplies if request is denied.

NOTE: GMA 6 designated this aquifer as non-relevant in Kent County due to no GCD being present. GMA 7 designated this aquifer as non-relevant due to limited extent, limited use, limited impacts between counties, and no GCD. Historic use in Kent County <100 afy, but historic use in Nolan County approximately 15,000 afy (85% irrigation).

Seymour

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Kent	Brazos	902	902	902	902	902	902
Assigned Supply	County-Other	Kent	Brazos	15	15	15	15	15	
	Irrigation	Kent	Brazos	156	156	156	156	156	
	Mining	Kent	Brazos	721	721	721	721	721	
	TOTAL			892	892	892	892	892	--
Water Mgmt. Strategies	Jayton WTP New	Kent	Brazos	249	249	249	249	249	--
Total Availability		Throckmorton	Brazos	3	3	3	3	3	3
Assigned Supply	Roscoe	Throckmorton	Brazos	--	--	--	--	--	--
Water Mgmt. Strategies		Throckmorton	Brazos	--	--	--	--	--	--
Total Availability		Young	Brazos	1	1	1	1	1	1
Assigned Supply	Irrigation	Young	Brazos	29	29	29	29	29	--
	Mining	Young	Brazos	70	70	70	70	70	--
	TOTAL			99	99	99	99	99	--
Water Mgmt. Strategies		Young	Brazos	--	--	--	--	--	--

- **Recommend** requesting that the TWDB restore previous availability non-MAG availability in all counties.
 - Proportionally reduce assigned supplies and designate WMS as alternative if request is denied

NOTE: GMA 6 designated this aquifer as non-relevant due to no GCD being present. Historic use <500 afy (Kent County), none in Young and Throckmorton counties.

Trinity

	Name	County	Basin	2030	2040	2050	2060	2070	2080
Total Availability		Palo Pinto	Brazos	1	1	1	1	1	1
Assigned Supply	Irrigation	Palo Pinto	Brazos	10	10	10	10	10	--
	Mining	Palo Pinto	Brazos	2	2	2	2	2	--
	TOTAL			12	12	12	12	12	--
Water Mgmt. Strategies		Palo Pinto	Brazos	--	--	--	--	--	--

- **Recommend** proportionally reducing assigned supplies

Agenda Item 9

- Discussion and possible action on recommendations for allocations of limited groundwater supplies

Allocation of Groundwater Supplies

- **Recommend** starting with supply allocations from the 2021 plan
- Adopt and employ methodology used in the 2021 plan to adjust supply allocations using available data/information from WUGs:
 - Municipal-Utilities = half of sum of well capacity * 95%
 - County-Other = 125% of 2020 use
 - Irrigation = projected demand in each decade
 - Mining = projected demand in each decade
 - Livestock = projected demand in each decade
 - Power = 125% of 2020 use
 - Manufacturing = 125% of 2020 use
- Policy consideration- equal consideration of municipal and non-municipal uses

Limited Groundwater Supplies

- Options for allocating supplies in county/basin areas where supplies exceed availability:
 - **Recommend-** proportional reductions for all WUGs (consistent with methodology used for 2021 plan); or
 - Prioritize municipal utilities and then proportionally reduce other WUGs

Agenda Item 10

- Discussion and possible action on recommendations for allocations of unallocated groundwater supplies
- **Recommend** approving adjusting supplies based on updated availabilities and previous supply allocation methodology
 - Municipal-Utilities = half of sum of well capacity * 95%
 - County-Other = 125% of 2020 use
 - Irrigation = projected demand in each decade
 - Mining = projected demand in each decade
 - Livestock = projected demand in each decade
 - Power = 125% of 2020 use
 - Manufacturing = 125% of 2020 use



11. Discussion and possible action on the review of requests for use of MAG Peak Factor



12.

ADJOURN