

Table 1
Region F Comparison of MAG Volumes
Previous and Current Joint Planning Cycles
(all values are in acre-feet per year)

County	JP1						GMA	JP2						Difference					Comments
	2020	2030	2040	2050	2060	2020		2030	2040	2050	2060	2070	Red value in parentheses is a decrease, black is an increase.						
	2020	2030	2040	2050	2060	2020		2030	2040	2050	2060	2070	2020	2030	2040	2050	2060		
ANDREWS	15,985	14,569	12,905	10,907	8,268	2	26,256	22,694	21,114	20,093	19,359	18,793	10,271	8,125	8,209	9,186	11,091		
BORDEN	1,020	1,020	1,020	1,020	1,020	2	6,823	5,540	4,970	4,638	4,322	4,113	5,803	4,520	3,950	3,618	3,302		
BROWN	2,188	2,188	2,188	2,188	2,188	8	1,980	1,974	1,980	1,974	1,980	1,974	(208)	(214)	(208)	(214)	(208)	Trinity	
COKE	998	998	998	998	998	7	997	997	997	997	997	997	(1)	(1)	(1)	(1)	(1)		
COLEMAN	500	500	500	500	500	7	-	-	-	-	-	-	(500)	(500)	(500)	(500)	(500)	Hickory	
CONCHO	1,835	1,835	1,835	1,835	1,835	7	27	27	27	27	27	27	(1,808)	(1,808)	(1,808)	(1,808)	(1,808)	Lipan Non-relevant	
CRANE	6,998	6,998	6,998	6,998	6,998	3	5,085	5,085	5,085	5,085	5,085	5,085	(1,913)	(1,913)	(1,913)	(1,913)	(1,913)	Dockum	
CROCKETT	5,457	5,457	5,457	5,457	5,457	7	5,447	5,447	5,447	5,447	5,447	5,447	(10)	(10)	(10)	(10)	(10)		
ECTOR	14,089	13,793	13,234	13,198	12,790	7	5,542	5,542	5,542	5,542	5,542	5,542	(8,547)	(8,251)	(7,692)	(7,656)	(7,248)	Ogallala Non-relevant	
GLASSCOCK	86,535	86,088	84,904	82,502	80,081	7	73,111	72,859	72,558	72,244	71,989	71,756	(13,424)	(13,229)	(12,346)	(10,258)	(8,092)	Ogallala relevant but much smaller MAG	
HOWARD	3,075	2,731	2,731	2,731	2,703	2	21,424	18,980	17,853	17,227	16,870	16,655	18,349	16,249	15,122	14,496	14,167		
IRION	2,293	2,293	2,293	2,293	2,293	7	3,289	3,289	3,289	3,289	3,289	3,289	996	996	996	996	996		
KIMBLE	1,593	1,593	1,593	1,593	1,593	7	1,968	1,968	1,968	1,968	1,968	1,968	375	375	375	375	375		
LOVING	5,167	5,167	5,167	5,167	5,167	3	3,635	3,635	3,635	3,635	3,635	3,635	(1,532)	(1,532)	(1,532)	(1,532)	(1,532)	Rustler, Dockum	
MCCULLOCH	12,525	12,525	12,525	12,525	12,525	7	28,741	28,741	28,741	28,741	28,741	28,741	16,216	16,216	16,216	16,216	16,216		
MARTIN	13,570	13,570	13,140	12,299	12,277	2	63,471	51,134	43,869	39,801	37,218	35,433	49,901	37,564	30,729	27,502	24,941	Ellenburger-San Saba	
MASON	18,095	18,095	18,095	18,095	18,095	7	16,449	16,449	16,449	16,449	16,449	16,449	(1,646)	(1,646)	(1,646)	(1,646)	(1,646)	smaller MAG	
MENARD	4,001	4,001	4,001	4,001	4,001	7	5,251	5,251	5,251	5,251	5,251	5,251	1,250	1,250	1,250	1,250	1,250		
MIDLAND	61,639	60,075	57,874	55,944	54,576	7	23,233	23,233	23,233	23,233	23,233	23,233	(38,406)	(36,842)	(34,641)	(32,711)	(31,343)	Ogallala Non-relevant	
MITCHELL	14,018	14,018	14,018	14,018	14,018	7	-	-	-	-	-	-	(14,018)	(14,018)	(14,018)	(14,018)	(14,018)	Dockum Non-relevant	
PECOS	275,715	275,715	275,715	275,715	275,715	3&7	281,583	281,583	281,583	281,583	281,583	281,583	5,868	5,868	5,868	5,868	5,868		
REAGAN	68,278	68,278	68,278	68,278	68,278	7	69,195	69,195	69,195	69,195	69,195	69,195	917	917	917	917	917		
REEVES	198,094	198,094	198,094	198,094	198,094	3	194,670	194,670	194,670	194,670	194,670	194,670	(3,424)	(3,424)	(3,424)	(3,424)	(3,424)	Dockum, Capitan	
RUNNELS	15	15	15	15	15	7	-	-	-	-	-	-	(15)	(15)	(15)	(15)	(15)	Lipan Non-relevant	
SCHLEICHER	8,050	8,050	8,050	8,050	8,050	7	8,034	8,034	8,034	8,034	8,034	8,034	(16)	(16)	(16)	(16)	(16)		
SCURRY	1,209	1,209	1,209	1,209	1,209	7	-	-	-	-	-	-	(1,209)	(1,209)	(1,209)	(1,209)	(1,209)	Dockum Non-relevant	
STERLING	2,497	2,497	2,497	2,497	2,497	7	2,495	2,495	2,495	2,495	2,495	2,495	(2)	(2)	(2)	(2)	(2)		
SUTTON	6,438	6,438	6,438	6,438	6,438	7	6,410	6,410	6,410	6,410	6,410	6,410	(28)	(28)	(28)	(28)	(28)		
TOM GREEN	39,787	39,787	39,787	39,787	39,787	7	-	-	-	-	-	-	(39,787)	(39,787)	(39,787)	(39,787)	(39,787)	Lipan Non-relevant	
UPTON	22,600	22,600	22,600	22,600	22,600	7	22,369	22,369	22,369	22,369	22,369	22,369	(231)	(231)	(231)	(231)	(231)	Dockum Non-relevant	
WARD	58,616	58,616	58,616	58,616	58,616	3	52,229	52,229	52,229	52,229	52,229	52,229	(6,387)	(6,387)	(6,387)	(6,387)	(6,387)	Dockum, Capitan, Rustler	
WINKLER	51,045	51,045	51,045	51,045	51,045	3	56,223	56,223	56,223	56,223	56,223	56,223	5,178	5,178	5,178	5,178	5,178		
	1,003,925	999,858	993,820	986,613	979,727		985,937	966,053	955,216	948,849	944,610	941,596	(17,988)	(33,805)	(38,604)	(37,764)	(35,117)		

Table 2
Region F Current MAG Volumes by Aquifer

(all volumes are in acre-feet per year)

GMA	County	Total						Ogallala & Edwards Trinity (High Plains)						Edwards-Trinity (Plateau) & Pecos Valley & Trinity					
		2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
2	ANDREWS	26,256	22,694	21,114	20,093	19,359	18,793	24,937	21,375	19,795	18,774	18,040	17,474						
2	BORDEN	6,823	5,540	4,970	4,638	4,322	4,113	5,922	4,639	4,069	3,737	3,421	3,212						
8	BROWN	1,980	1,974	1,980	1,974	1,980	1,974												
7	COKE	997	997	997	997	997	997							997	997	997	997	997	997
7	COLEMAN																		
7	CONCHO	27	27	27	27	27	27												
3	CRANE	5,085	5,085	5,085	5,085	5,085	5,085							4,991	4,991	4,991	4,991	4,991	4,991
7	CROCKETT	5,447	5,447	5,447	5,447	5,447	5,447							5,447	5,447	5,447	5,447	5,447	5,447
7	ECTOR	5,542	5,542	5,542	5,542	5,542	5,542							5,542	5,542	5,542	5,542	5,542	5,542
7	GLASSCOCK	73,111	72,859	72,558	72,244	71,989	71,756	7,925	7,673	7,372	7,058	6,803	6,570	65,186	65,186	65,186	65,186	65,186	65,186
2	HOWARD	21,424	18,980	17,853	17,227	16,870	16,655	19,835	17,391	16,264	15,638	15,281	15,066						
7	IRION	3,289	3,289	3,289	3,289	3,289	3,289							3,289	3,289	3,289	3,289	3,289	3,289
7	KIMBLE	1,968	1,968	1,968	1,968	1,968	1,968							1,282	1,282	1,282	1,282	1,282	1,282
3	LOVING	3,635	3,635	3,635	3,635	3,635	3,635							2,982	2,982	2,982	2,982	2,982	2,982
7	MCCULLOCH	28,741	28,741	28,741	28,741	28,741	28,741												
2	MARTIN	63,471	51,134	43,869	39,801	37,218	35,433	63,463	51,126	43,861	39,793	37,210	35,425						
7	MASON	16,449	16,449	16,449	16,449	16,449	16,449												
7	MENARD	5,251	5,251	5,251	5,251	5,251	5,251							2,217	2,217	2,217	2,217	2,217	2,217
7	MIDLAND	23,233	23,233	23,233	23,233	23,233	23,233							23,233	23,233	23,233	23,233	23,233	23,233
7	MITCHELL	0	0	0	0	0	0												
3&7	PECOS (split)	281,583	281,583	281,583	281,583	281,583	281,583							240,208	240,208	240,208	240,208	240,208	240,208
7	REAGAN	69,195	69,195	69,195	69,195	69,195	69,195							68,233	68,233	68,233	68,233	68,233	68,233
3	REEVES	194,670	194,670	194,670	194,670	194,670	194,670							189,744	189,744	189,744	189,744	189,744	189,744
7	RUNNELS	0	0	0	0	0	0												
7	SCHLEICHER	8,034	8,034	8,034	8,034	8,034	8,034							8,034	8,034	8,034	8,034	8,034	8,034
7	SCURRY	0	0	0	0	0	0												
7	STERLING	2,495	2,495	2,495	2,495	2,495	2,495							2,495	2,495	2,495	2,495	2,495	2,495
7	SUTTON	6,410	6,410	6,410	6,410	6,410	6,410							6,410	6,410	6,410	6,410	6,410	6,410
7	TOM GREEN	0	0	0	0	0	0												
7	UPTON	22,369	22,369	22,369	22,369	22,369	22,369							22,369	22,369	22,369	22,369	22,369	22,369
3	WARD	52,229	52,229	52,229	52,229	52,229	52,229							49,976	49,976	49,976	49,976	49,976	49,976
3	WINKLER	56,223	56,223	56,223	56,223	56,223	56,223							49,949	49,949	49,949	49,949	49,949	49,949

Table 2
Region F Current MAG Volumes by Aquifer

(all volumes are in acre-feet per year)

GMA	County	Trinity (Travis Peak)						Trinity (Hensell)						Trinity (Hosston)						Trinity (Antlers)					
		2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
2	ANDREWS																								
2	BORDEN																								
8	BROWN	395	394	395	394	395	394	4	4	4	4	4	4	358	356	358	356	358	356	1,055	1,052	1,055	1,052	1,055	1,052
7	COKE																								
7	COLEMAN																								
7	CONCHO																								
3	CRANE																								
7	CROCKETT																								
7	ECTOR																								
7	GLASSCOCK																								
2	HOWARD																								
7	IRION																								
7	KIMBLE																								
3	LOVING																								
7	MCCULLOCH																								
2	MARTIN																								
7	MASON																								
7	MENARD																								
7	MIDLAND																								
7	MITCHELL																								
3&7	PECOS (split)																								
7	REAGAN																								
3	REEVES																								
7	RUNNELS																								
7	SCHLEICHER																								
7	SCURRY																								
7	STERLING																								
7	SUTTON																								
7	TOM GREEN																								
7	UPTON																								
3	WARD																								
3	WINKLER																								

Table 2
Region F Current MAG Volumes by Aquifer

(all volumes are in acre-feet per year)

GMA	County	Dockum						Capitan Reef Complex						Rustler					
		2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
2	ANDREWS	1,319	1,319	1,319	1,319	1,319	1,319												
2	BORDEN	901	901	901	901	901	901												
8	BROWN																		
7	COKE																		
7	COLEMAN																		
7	CONCHO																		
3	CRANE	94	94	94	94	94	94												
7	CROCKETT																		
7	ECTOR																		
7	GLASSCOCK																		
2	HOWARD	1,589	1,589	1,589	1,589	1,589	1,589												
7	IRION																		
7	KIMBLE																		
3	LOVING	453	453	453	453	453	453							200	200	200	200	200	200
7	MCCULLOCH																		
2	MARTIN	8	8	8	8	8	8												
7	MASON																		
7	MENARD																		
7	MIDLAND																		
7	MITCHELL																		
3&7	PECOS (split)	8,164	8,164	8,164	8,164	8,164	8,164	26,168	26,168	26,168	26,168	26,168	26,168	7,043	7,043	7,043	7,043	7,043	7,043
7	REAGAN	962	962	962	962	962	962												
3	REEVES	2,539	2,539	2,539	2,539	2,539	2,539							2,387	2,387	2,387	2,387	2,387	2,387
7	RUNNELS																		
7	SCHLEICHER																		
7	SCURRY																		
7	STERLING																		
7	SUTTON																		
7	TOM GREEN																		
7	UPTON																		
3	WARD	2,150	2,150	2,150	2,150	2,150	2,150	103	103	103	103	103	103	0	0	0	0	0	0
3	WINKLER	6,000	6,000	6,000	6,000	6,000	6,000	274	274	274	274	274	274						

Table 2
Region F Current MAG Volumes by Aquifer

(all volumes are in acre-feet per year)

GMA	County	Marble Falls						Ellenburger - San Saba						Hickory					
		2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
2	ANDREWS																		
2	BORDEN																		
8	BROWN	25	25	25	25	25	25	131	131	131	131	131	131	12	12	12	12	12	12
7	COKE																		
7	COLEMAN																		
7	CONCHO													27	27	27	27	27	27
3	CRANE																		
7	CROCKETT																		
7	ECTOR																		
7	GLASSCOCK																		
2	HOWARD																		
7	IRION																		
7	KIMBLE							521	521	521	521	521	521	165	165	165	165	165	165
3	LOVING																		
7	MCCULLOCH							4,364	4,364	4,364	4,364	4,364	4,364	24,377	24,377	24,377	24,377	24,377	24,377
2	MARTIN																		
7	MASON							3,237	3,237	3,237	3,237	3,237	3,237	13,212	13,212	13,212	13,212	13,212	13,212
7	MENARD							309	309	309	309	309	309	2,725	2,725	2,725	2,725	2,725	2,725
7	MIDLAND																		
7	MITCHELL																		
3&7	PECOS (split)																		
7	REAGAN																		
3	REEVES																		
7	RUNNELS																		
7	SCHLEICHER																		
7	SCURRY																		
7	STERLING																		
7	SUTTON																		
7	TOM GREEN																		
7	UPTON																		
3	WARD																		
3	WINKLER																		

**Table 3. 2016 Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

County	Aquifer	Basin	2020	2030	2040	2050	2060	2070
Andrews	Dockum	Colorado	715	715	715	715	715	715
		Rio Grande	135	135	135	135	135	135
	Ogallala	Colorado	15,085	13,678	12,014	10,016	7,377	7,377
		Rio Grande	50	41	41	41	41	41
Borden	Dockum	Brazos	33	33	33	33	33	33
		Colorado	482	482	482	482	482	482
	Edwards-Trinity (High Plains)	Brazos	65	65	65	65	65	65
		Colorado	41	41	41	41	41	41
	Ogallala	Brazos	292	292	292	292	292	292
		Colorado	107	107	107	107	107	107
Brown	Ellenburger-San Saba	Colorado	131	131	131	131	131	131
	Hickory	Colorado	12	12	12	12	12	12
	Trinity	Brazos	28	28	28	28	28	28
		Colorado	2,017	2,017	2,017	2,017	2,017	2,017
Coke	Edwards-Trinity (Plateau)	Colorado	998	998	998	998	998	998
Coleman	Hickory	Colorado	500	500	500	500	500	500
Concho	Hickory	Colorado	1	1	1	1	1	1
	Lipan	Colorado	1,834	1,834	1,834	1,834	1,834	1,834
Crane	Dockum	Rio Grande	2,000	2,000	2,000	2,000	2,000	2,000
	Edwards-Trinity (Plateau)	Rio Grande	26	26	26	26	26	26
	Pecos Valley	Rio Grande	4,972	4,972	4,972	4,972	4,972	4,972
Crockett	Edwards-Trinity (Plateau)	Colorado	19	19	19	19	19	19
		Rio Grande	5407	5407	5407	5407	5407	5407
	Pecos Valley	Rio Grande	31	31	31	31	31	31
Ector	Dockum	Colorado	13	13	13	13	13	13
		Rio Grande	515	515	515	515	515	515
	Edwards-Trinity (Plateau)	Colorado	4,918	4,918	4,918	4,918	4,918	4,918
		Rio Grande	504	504	504	504	504	504
	Pecos Valley	Rio Grande	113	113	113	113	113	113
Ogallala	Colorado	8,026	7,730	7,171	7,135	6,727	6,727	
Glasscock	Edwards-Trinity (Plateau)	Colorado	65,213	65,213	65,213	65,213	65,213	65,213
	Ogallala	Colorado	21,322	20,875	19,691	17,289	14,868	14,868
Howard	Ogallala	Colorado	3,075	2,731	2,731	2,731	2,703	2,703
Irion	Edwards-Trinity (Plateau)	Colorado	2,293	2,293	2,293	2,293	2,293	2,293
Kimble	Edwards-Trinity (Plateau)	Colorado	1,283	1,283	1,283	1,283	1,283	1,283
	Ellenburger-San Saba	Colorado	304	304	304	304	304	304
	Hickory	Colorado	6	6	6	6	6	6
Loving	Dockum	Rio Grande	1,000	1,000	1,000	1,000	1,000	1,000
	Edwards-Trinity (Plateau)	Rio Grande	0	0	0	0	0	0
	Pecos Valley	Rio Grande	2,984	2,984	2,984	2,984	2,984	2,984
	Rustler	Rio Grande	1,183	1,183	1,183	1,183	1,183	1,183
Martin	Ogallala	Colorado	13,570	13,570	13,140	12,299	12,277	12,277
Mason	Ellenburger-San Saba	Colorado	5,801	5,801	5,801	5,801	5,801	5,801
	Hickory	Colorado	12,294	12,294	12,294	12,294	12,294	12,294
McCulloch	Edwards-Trinity (Plateau)	Colorado	4	4	4	4	4	4
	Ellenburger-San Saba	Colorado	5,369	5,369	5,369	5,369	5,369	5,369
	Hickory	Colorado	7,152	7,152	7,152	7,152	7,152	7,152

**Table 3. 2016 Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

County	Aquifer	Basin	2020	2030	2040	2050	2060	2070
Menard	Edwards-Trinity (Plateau)	Colorado	2,194	2,194	2,194	2,194	2,194	2,194
	Ellenburger-San Saba	Colorado	791	791	791	791	791	791
	Hickory	Colorado	1,016	1,016	1,016	1,016	1,016	1,016
Midland	Dockum	Colorado	0	0	0	0	0	0
	Edwards-Trinity (Plateau)	Colorado	23,251	23,251	23,251	23,251	23,251	23,251
	Ogallala	Colorado	38,388	36,824	34,623	32,693	31,325	31,325
Mitchell	Dockum	Colorado	14,018	14,018	14,018	14,018	14,018	14,018
Pecos	Capitan Reef	Rio Grande	11,122	11,122	11,122	11,122	11,122	11,122
	Dockum	Rio Grande	13,965	13,965	13,965	13,965	13,965	13,965
	Edwards-Trinity (Plateau)	Rio Grande	115,938	115,938	115,938	115,938	115,938	115,938
	Pecos Valley	Rio Grande	124,182	124,182	124,182	124,182	124,182	124,182
	Rustler	Rio Grande	10,508	10,508	10,508	10,508	10,508	10,508
Reagan	Edwards-Trinity (Plateau)	Colorado	68,250	68,250	68,250	68,250	68,250	68,250
		Rio Grande	28	28	28	28	28	28
Reeves	Capitan Reef	Rio Grande	1,007	1,007	1,007	1,007	1,007	1,007
	Dockum	Rio Grande	5,000	5,000	5,000	5,000	5,000	5,000
	Edwards-Trinity (Plateau)	Rio Grande	3,389	3,389	3,389	3,389	3,389	3,389
	Pecos Valley	Rio Grande	186,722	186,722	186,722	186,722	186,722	186,722
	Rustler	Rio Grande	1,976	1,976	1,976	1,976	1,976	1,976
Runnels	Lipan	Colorado	15	15	15	15	15	15
Schleicher	Edwards-Trinity (Plateau)	Colorado	6,410	6,410	6,410	6,410	6,410	6,410
		Rio Grande	1,640	1,640	1,640	1,640	1,640	1,640
Scurry	Dockum	Brazos	306	306	306	306	306	306
		Colorado	903	903	903	903	903	903
Sterling	Edwards-Trinity (Plateau)	Colorado	2,497	2,497	2,497	2,497	2,497	2,497
Sutton	Edwards-Trinity (Plateau)	Colorado	386	386	386	386	386	386
		Rio Grande	6,052	6,052	6,052	6,052	6,052	6,052
Tom Green	Edwards-Trinity (Plateau)	Colorado	426	426	426	426	426	426
	Lipan	Colorado	39,361	39,361	39,361	39,361	39,361	39,361
Upton	Dockum	Colorado	0	0	0	0	0	0
		Rio Grande	219	219	219	219	219	219
	Edwards-Trinity (Plateau)	Colorado	21,257	21,257	21,257	21,257	21,257	21,257
		Rio Grande	1,122	1,122	1,122	1,122	1,122	1,122
	Pecos Valley	Rio Grande	2	2	2	2	2	2
Ward	Capitan Reef	Rio Grande	1,051	1,051	1,051	1,051	1,051	1,051
	Dockum	Rio Grande	7,000	7,000	7,000	7,000	7,000	7,000
	Edwards-Trinity (Plateau)	Rio Grande	0	0	0	0	0	0
	Pecos Valley	Rio Grande	50,010	50,010	50,010	50,010	50,010	50,010
	Rustler	Rio Grande	555	555	555	555	555	555
Winkler	Capitan Reef	Rio Grande	1,061	1,061	1,061	1,061	1,061	1,061
	Dockum	Colorado	33	33	33	33	33	33
		Rio Grande	9,967	9,967	9,967	9,967	9,967	9,967
	Pecos Valley	Rio Grande	39,984	39,984	39,984	39,984	39,984	39,984

**Table 4
Region F
Non-relevant Aquifer Availability Volumes**

Still non-relevant?	County	Aquifer	Basin	2011 Plan Availability	2016 Plan Availability	DFC Compatible Availability	DFC Compatible Availability Source/Method	Comments
Y	Andrews	Edwards-Trinity (Plateau)	Colorado	4,640	3,000	1,198	Current: 2016 TWDB DFC Compatible Availability Value; 2016 plan estimate based on GMA7 GTA 08-05 GAM run, Ector Co area 7 numbers and assumption that approximate areas are equivalent; area 7 is most similar and closest to Andrews	2011 pumpage (livestock) = 3 2016 pumpage for livestock ~2.4 af (no other reported user)
Y		Pecos Valley Alluvium	Rio Grande	1,189	1,000	150	Current estimate based on existing well reports compiled (2000-2018) plus historical pumping; 2016 plan estimate based on Ector Co DFC compatible availability, both areas on outer edge of basin	2011 pumpage (livestock) = 34 2016 municipal and livestock pumping = 138 af
Y	Coke	Dockum	Colorado	12	0	100	Current estimate: Lots of rig supply wells; previous estimate was TWDB value	
Y		Lipan	Colorado	0	0	160	Current estimate: sum of yield for existing wells; previous estimate was TWDB value	
Y	Coleman	Hickory	Colorado	0	500	500	estimate equivalent to Concho Co	no TWDB wells; no known historical use
Y	Concho	Edwards-Trinity (Plateau)	Colorado	12,278	487	459	TWDB DFC Compatible Availability Value	2011 pumpage (livestock) = 184
Y, adding area inside LKGCD		Lipan	Colorado	6,513	59	1,893	Current: 2016 MAG plus NR volume from 2016 plan	outside Lipan-Kickapoo GAM area = 59; relevant portion (in GCD) MAG=1834 - summed partials (all NR)
Y, Brackish	Crane	Rustler	Rio Grande	0	1,000	1,000	Current: Rustler brackish study indicates slightly to moderately saline water in Crane County) 2016 plan estimate based on GMA3 AA-10-37 MAG numbers	1 well TDS=111,000; 1 well TDS=2,595 (unused) (brackish - outside of fw aquifer boundary)
Y	Crockett	Dockum	Colorado	0	80	2	Current estimate revised to account for basin is very small portion of county; 2016 plan estimate based on 25% total inflow for Crockett Co - GAM run 10-001; assume relevant area 25% area of entire county	2011 pumpage (livestock) = 1 2016 pumping ~1.8 af
Y		Dockum	Rio Grande	0	2	2	TWDB DFC Compatible Availability Value	
NEW	Ector	Dockum	Colorado			13	2016 MAG	
NEW	Ector	Dockum	Rio Grande			515	2016 MAG	
NEW	Ector	Ogallala	Colorado			8,026	2016 MAG	
Y	Glasscock	Dockum	Colorado	140	900	900	Estimate based on GMA7 GAM run 10-001 Glasscock Co total inflow and assumes that the non-rel portion area ~ 10% of entire county, TWDB MAG = 0 ??	brackish - outside of fw aquifer boundary; 2018 - lots of rig supply wells, but not Dockum
Y		Lipan	Colorado	0	10	10		
Y	Howard	Edwards-Trinity (Plateau)	Colorado	1,700	1,650	672	2016 TWDB DFC Compatible Availability Value	2011 pumpage (irr, stk, mun) = 3853 2016 pumping = 1485 af
Y	Irion	Dockum	Colorado	0	150	150	estimate based on GMA7 GAM run 17-013 Irion Co total Lipan inflow	2011 pumpage (livestock) = 1; O&G activity high 2016 pumping ~1.1 af
Y		Lipan	Colorado	0	13	13	TWDB DFC Compatible Availability Value	
Y	Kimble	Edwards-Trinity (Plateau)	Colorado	23,965	104	104	2.55% of Kimble CO ETP recharge	
Y		Marble Falls	Colorado	0	100	100		no wells on WIID
Y	McCulloch	Edwards-Trinity (Plateau)	Colorado	8,249	144	148	TWDB DFC Compatible Availability Value	144 for area within Hickory UWCD; relevant portion MAG=4
Y		Marble Falls	Colorado	15	50	50		a few exempt wells; avg. historical use 2007-2011=36
Y	Martin	Edwards-Trinity (Plateau)	Colorado	3,398	1,500	242	Current = 2016 TWDB DFC Compatible Availability Value; previous estimate based on GMA7 GTA 08-05 (p. 7) Midland Co area 9 numbers and assumes non-rel area ~ 33% of Midland Co area 9	
Y	Mason	Edwards-Trinity (Plateau)	Colorado	3,828	18	18	TWDB DFC Compatible Availability Value	2011 pumpage (livestock) = 12
Y		Marble Falls	Colorado	134	100	100		no wells on WIID
Y	Menard	Edwards-Trinity (Plateau)	Colorado	19,000	377	377	TWDB DFC Compatible Availability Value	377 for area within Hickory UWCD; relevant portion MAG=2194
NEW	Midland	Dockum	Colorado			0	2016 MAG	BRACKISH TDS ~8000 from 1 well
NEW	Midland	Ogallala	Colorado			38,388	2016 MAG	
NEW	Mitchell	Dockum	Colorado			14,018	2016 MAG	
NEW	Mitchell	PV, ETP, T	Colorado			0	2016 MAG	
NEW	Pecos	Igneous	Rio Grande			80	assume 4-5 stock wells @5-10 gpm	assume 4-5 stock wells @5-10 gpm

**Table 4
Region F
Non-relevant Aquifer Availability Volumes**

Still non-relevant?	County	Aquifer	Basin	2011 Plan Availability	2016 Plan Availability	DFC Compatible Availability	DFC Compatible Availability Source/Method	Comments
NEW	Reeves	Igneous	Rio Grande			300	TWDB 2016 groundwater pumpage = 372 afy (non-surveyed estimates) x 0.8	
NEW	Reeves	Capitan Reef Complex	Rio Grande			1,007	2016 MAG	NO WELLS; NO DATA
Y, adding area inside LKGCD	Runnels	Lipan	Colorado	4,536	30	45	2016 MAG	outside Lipan-Kickapoo GAM area=30; relevant portion (in GCD) MAG=15 summed partials (all NR)
Y	Schleicher	Lipan	Colorado	0	0	0	TWDB DFC Compatible Availability Value	furthest downdip portion, zero is fine
NEW	Scurry	Dockum	Brazos			306	2016 MAG	
NEW	Scurry	Dockum	Colorado			903	2016 MAG	
NEW	Scurry	Seymour	Brazos			10	no wells no data no recharge numbers (no district)	
Y	Sterling	Dockum	Colorado	0	10	10	TWDB DFC Compatible Availability Value	2011 pumpage (livestock) = 6
Y		Lipan	Colorado	0	50	102	GR 17-012 estimated recharge	
Y	Tom Green	Dockum	Colorado	54	0	200	2 rig supply wells have been drilled, very small area	2 rig supply wells have been drilled, very small area
Y		PV, ETP, T	Colorado	15,037	2,372	2,797	2016 MAG	outside Lipan-Kickapoo GAM area=2372; relevant portion (in GCD) MAG=426 this is a sum of partial MAGs from 2016
Y, adding area inside LKGCD		Lipan	Colorado	37,486	4,207	43,568	2016 MAG	outside Lipan-Kickapoo GAM area=4207; relevant portion (in GCD) MAG=39361 - summed partials (all NR)
NEW	Upton	Dockum				219	2016 MAG	
Y, Brackish	Winkler	Rustler	Rio Grande	0	500	500	based on GMA3 AA-10-37 MAG numbers(four Rustler county MAGs total 7180, Ward Co MAG is 555 and is closest in proximity) 2018: revised downward	2 Shell wells: one plugged/destroyed, one TDS=44,000; very brackish for mining or desal only
NEW	Winkler	Ogallala	Rio Grande			40	The nearest well drilled in 2011 (4 miles to northeast) pumps about 25 gpm. About 25 feet of saturated thickness. 40 afy assumes 2 similar wells could be sustained in Winkler.	

Total: 119,395

Color key

	WSP estimate
	TWDB 'DFC-compatible' spreadsheet MAG from previous cycle
	MAG from previous cycle

Table 5
Non-Relevant Groundwater Supplies in Region F
(Values in Acre-Feet per Year)

County	Aquifer	Basin	2020	2030	2040	2050	2060	2070
Andrews	Edwards-Trinity (Plateau) and Pecos Valley	Colorado	1,198	1,198	1,198	1,198	1,198	1,198
	Pecos Valley	Rio Grande	150	150	150	150	150	150
Coke	Dockum	Colorado	100	100	100	100	100	100
	Lipan	Colorado	160	160	160	160	160	160
Coleman	Hickory	Colorado	500	500	500	500	500	500
Concho	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	459	459	459	459	459	459
	Lipan	Colorado	1893	1893	1893	1893	1893	1893
Crane	Rustler	Rio Grande	1,000	1,000	1,000	1,000	1,000	1,000
Crockett	Dockum	Colorado	2	2	2	2	2	2
	Dockum	Rio Grande	2	2	2	2	2	2
Ector	Dockum	Colorado	13	13	13	13	13	13
	Dockum	Rio Grande	515	515	515	515	515	515
	Ogallala	Colorado	8,026	7,730	7,171	7,135	6,727	6,727
Glasscock	Dockum	Colorado	900	900	900	900	900	900
	Lipan	Colorado	10	10	10	10	10	10
Howard	Edwards-Trinity (Plateau)	Colorado	672	672	672	672	672	672
Irion	Dockum	Colorado	150	150	150	150	150	150
	Lipan	Colorado	13	13	13	13	13	13
Kimble	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	104	104	104	104	104	104
	Marble Falls	Colorado	100	100	100	100	100	100
McCulloch	Pecos Valley, Edwards-Trinity	Colorado	148	148	148	148	148	148
	Marble Falls	Colorado	50	50	50	50	50	50
Martin	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	242	242	242	242	242	242

Table 5 (continued)
Non-Relevant Groundwater Supplies in Region F
(Values in Acre-Feet per Year)

County	Aquifer	Basin	2020	2030	2040	2050	2060	2070
Mason	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	18	18	18	18	18	18
	Marble Falls	Colorado	100	100	100	100	100	100
Menard	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	377	377	377	377	377	377
Midland	Dockum	Colorado	0	0	0	0	0	0
	Ogallala	Colorado	38,388	36,824	34,623	32,693	31,325	31,325
Mitchell	Dockum	Colorado	14,018	14,018	14,018	14,018	14,018	14,018
	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	0	0	0	0	0	0
Pecos	Igneous	Rio Grande	80	80	80	80	80	80
Reeves	Capitan Reef Complex	Rio Grande	1,007	1,007	1,007	1,007	1,007	1,007
	Igneous	Rio Grande	300	300	300	300	300	300
Runnels	Lipan	Colorado	45	45	45	45	45	45
Schleicher	Lipan	Colorado	0	0	0	0	0	0
Scurry	Dockum	Brazos	306	306	306	306	306	306
	Dockum	Colorado	903	903	903	903	903	903
	Seymour	Brazos	10	10	10	10	10	10
Sterling	Dockum	Colorado	10	10	10	10	10	10
	Lipan	Colorado	102	102	102	102	102	102
Tom Green	Dockum	Colorado	200	200	200	200	200	200
	Pecos Valley, Edwards-Trinity (Plateau), and Trinity	Colorado	2,797	2,797	2,797	2,797	2,797	2,797
	Lipan	Colorado	43,568	43,568	43,568	43,568	43,568	43,568
Upton	Dockum	Rio Grande	219	219	219	219	219	219
Winkler	Ogallala	Rio Grande	40	40	40	40	40	40
	Rustler	Rio Grande	500	500	500	500	500	500

Black font denotes a previously existing county/ aquifer/ basin split with a non-relevant volume; red font indicates a new non-relevant volume.

Table 6
Groundwater Supplies from Other Undifferentiated Aquifers
(Acre-Feet per Year)

County	Aquifer Name	Basin	2021 Availability
Borden	Other Aquifer	Colorado	2,598
Brown	Other Aquifer Cross Timbers	Colorado	993
Coke	Other Aquifer	Colorado	2,100
Coleman	Other Aquifer	Colorado	109
	Other Aquifer Cross Timbers	Colorado	108
Concho	Other Aquifer	Colorado	5,964
Irion	Other Aquifer	Colorado	1,731
Mason	Other Aquifer	Colorado	873
McCulloch	Other Aquifer	Colorado	103
	Other Aquifer Cross Timbers	Colorado	103
Mitchell	Other Aquifer	Colorado	789
Pecos	Other Aquifer	Rio Grande	10,000
Runnels	Other Aquifer	Colorado	5,001
Scurry	Other Aquifer	Brazos	74
		Colorado	315
Sterling	Other Aquifer	Colorado	1,359

Total: 32,220 afy