

Current MAGs based on 2012 Approval from TWDB

Year 2060 Managed Available Groundwater in Acre-Feet

District	Brazos River		Calvert		Hooper	Queen City		Yegua-Jackson	Total
	Alluvium	Carrizo	Bluff	Simsboro		Sparta	City		
Brazos Valley	-	5,496	1,755	96,185	316	529	7,923	7,071	119,275
Fayette County	-	1,000	-	-	-	570	3,729	5,762	11,061
Lost Pines	-	12,052	3,985	37,249	2,592	1,133	1,877	-	58,888
Mid-East Texas	-	11,088	3,912	7,170	827	974	3,334	1,122	28,427
Post Oak Savannah	25,138	7,059	1,038	48,501	4,422	502	6,734	12,923	106,377
GMA 12	-	36,695	10,690	189,105	8,157	3,708	23,597	26,878	323,968

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1



Adopted DFCs in 2012 for GMA 12

Water-Level Decline, ft (2000 – 2060)

Groundwater Conservation District	Sparta	Queen City	Carrizo	Calvert Bluff	Simsboro	Hooper	Yegua-Jackson
Brazos Valley	15	12	47	106	270	170	70-110
Fayette County	60	60	60	NA	NA	NA	75
Lost Pines	7	13	47	99	237	129	NA
Mid-East Texas	0	0	55	70	115	95	5
Post Oak Savannah	30	30	65	140	300	180	100

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2



GMA 12 and Region G 2016 Study Estimates for BVGCD (draft)

Aquifer	GMA 12 2012 Planning Managed Available Groundwater by 2060, ac-ft/yr	Estimates of Water Demand From Current Region G Planning, ac-ft/yr	
		2060	2070
Sparta	9,000	8,048	9,371
Queen City	1,100	1,561	1,505
Carrizo	5,500	3,458	3,635
Calvert Bluff	1,800	1,636	1,640
Simsboro	96,100	105,735	114,204
Hooper	316	761	811
Yegua-Jackson	6,100	3,330	3,368

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3



Region G Population Projects for Entities in BVGCD

2011 Planning Cycle Population Projection

WUG Name	2000	2010	2020	2030	2040	2050	2060
Bryan	65,660	74,650	84,038	92,672	99,339	107,239	109,881
College Station	67,890	80,920	94,526	107,040	116,703	128,152	131,981
Texas A & M University	-	-	-	-	-	-	-
Total	133,550	155,570	178,564	199,712	216,042	235,391	241,862

Source: TWDB - DB12

2016 Planning Cycle Population Projection

WUG Name	2020	2030	2040	2050	2060	2070
Bryan	88,434	93,544	119,410	138,980	159,588	181,797
College Station	102,140	132,690	141,952	164,492	188,719	215,545
Texas A & M University	11,851	12,000	12,000	12,000	12,000	12,000
Total	202,425	238,234	273,362	315,472	360,307	409,342

Source: TWDB - DB17

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4



Predictive Scenario 2 of Existing Permitted and Mining Pumping

Year 2070 in Acre-Feet

District	Carrizo	Calvert Bluff	Simsboro	Hooper	Queen City	Sparta	Total
Brazos Valley	4,748	3,184	120,252	1,831	1,157	9,228	140,400
Fayette County	1,000	-	-	-	1,857	7,249	10,107
Lost Pines	11,509	3,906	45,213	673	1,084	565	62,949
Mid-East Texas	2,851	6,305	4,342	5,527	1,245	5,093	25,363
Post Oak Savannah	9,604	575	70,926	3,059	490	1,577	86,231
GMA 12	29,712	13,970	240,734	11,090	5,833	23,712	325,051

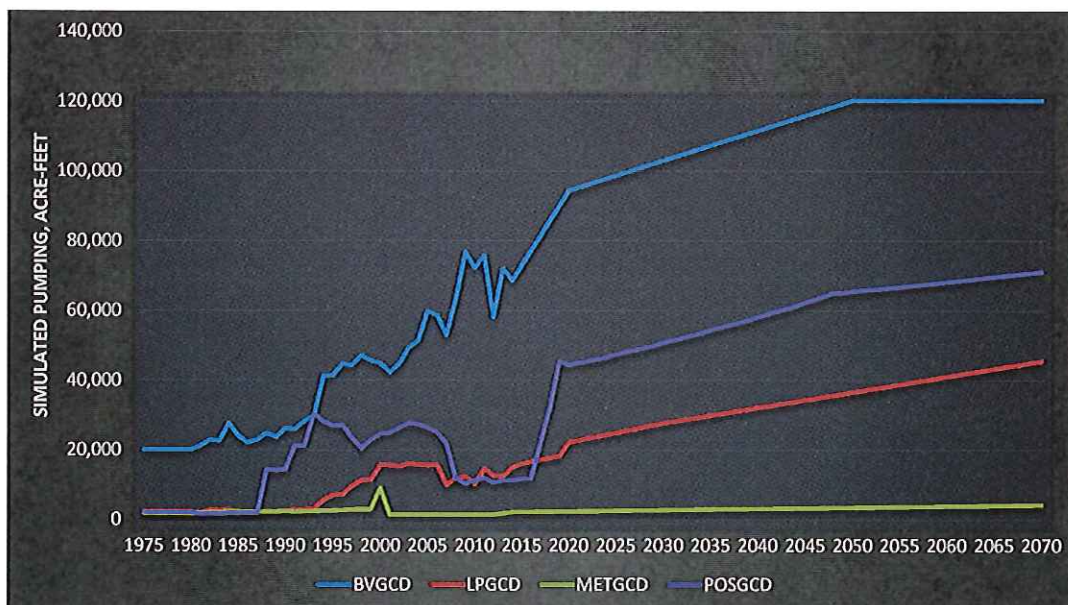
1/28/2015 **Preliminary** GMA 12 Meeting Dec. 4, 2014

5



Predictive Scenario 2

Simsboro Pumping



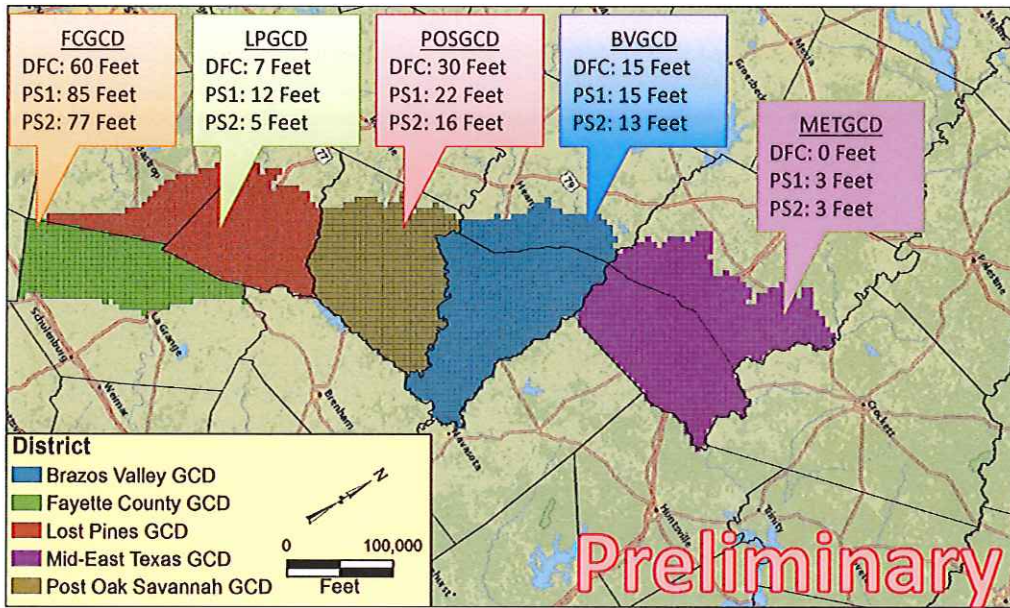
1/28/2015 **Preliminary**

6



Sparta Aquifer (Layer 1)

Average Drawdown



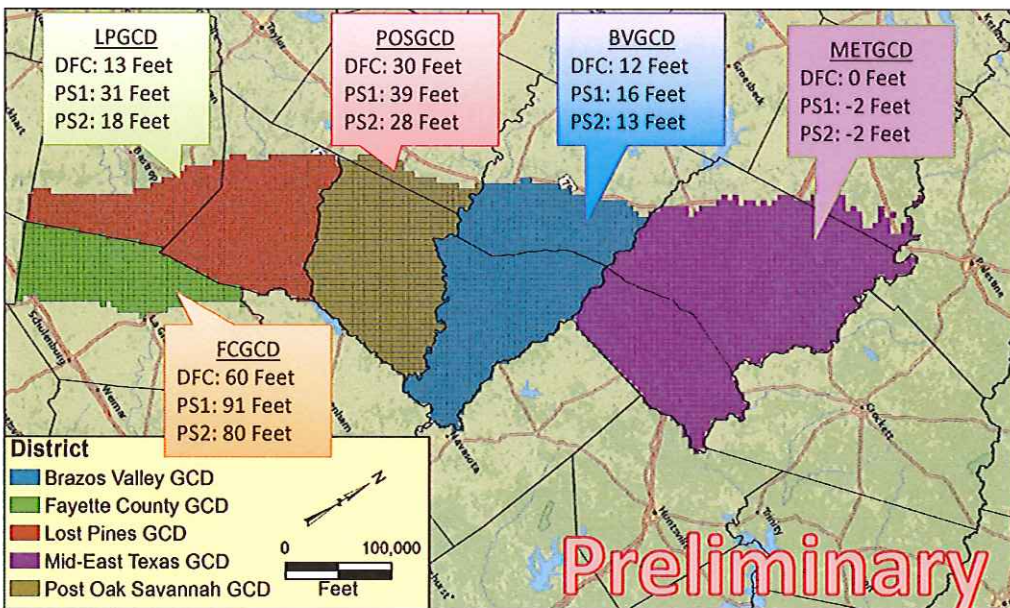
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7



Queen City Aquifer (Layer 3)

Average Drawdown



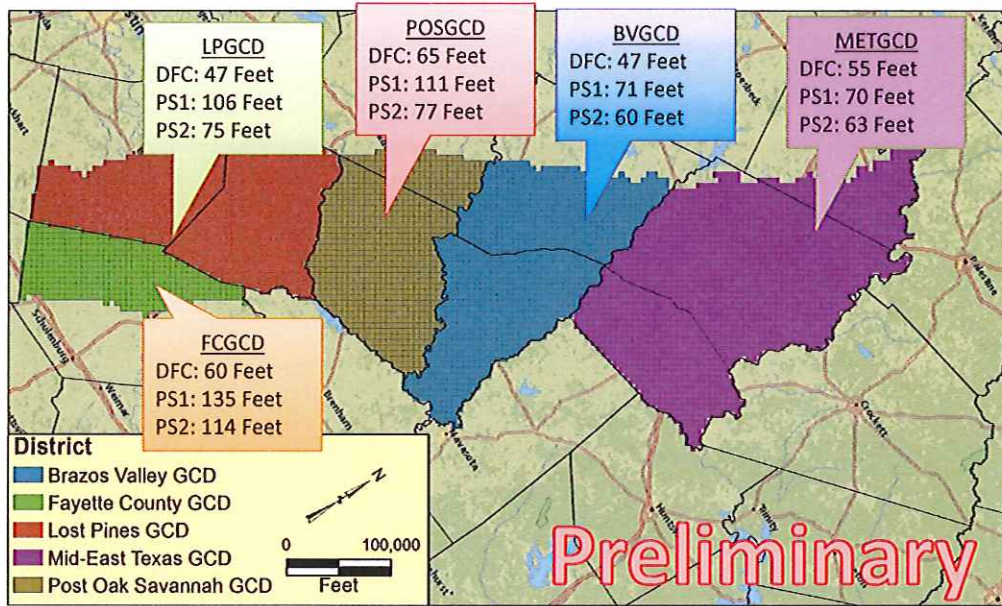
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8



Carrizo Aquifer (Layer 5)

Average Drawdown



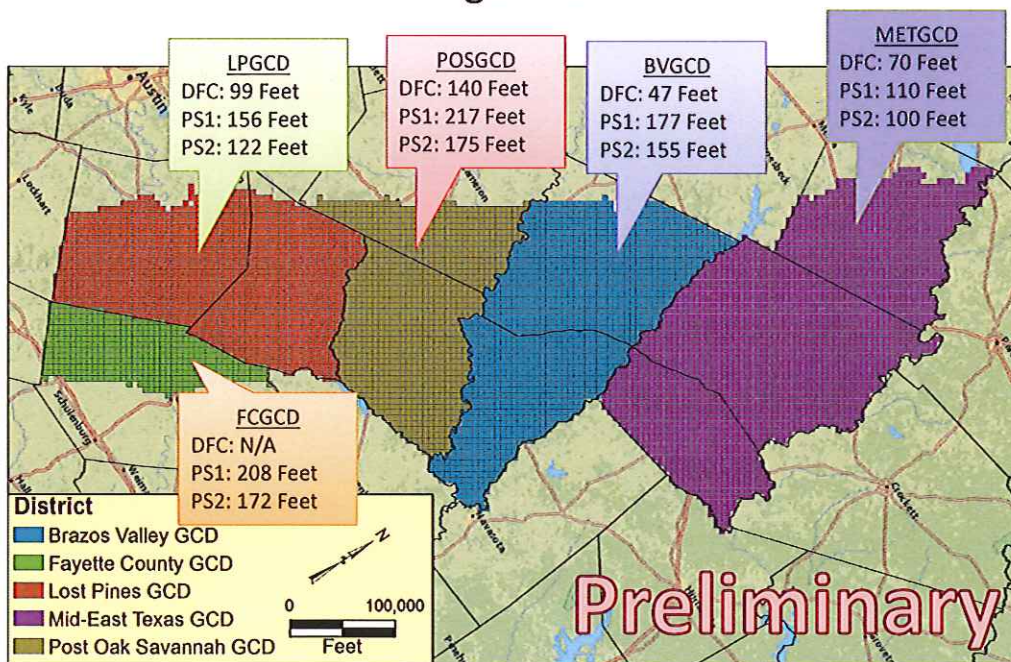
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9



Calvert Bluff Aquifer (Layer 6)

Average Drawdown



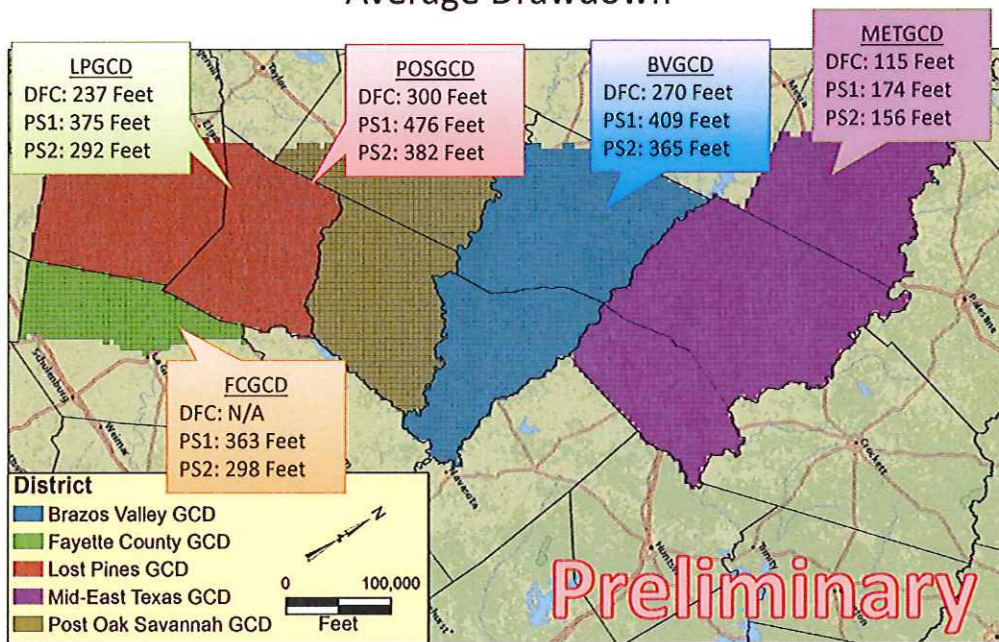
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10



Simsboro Aquifer (Layer 7)

Average Drawdown



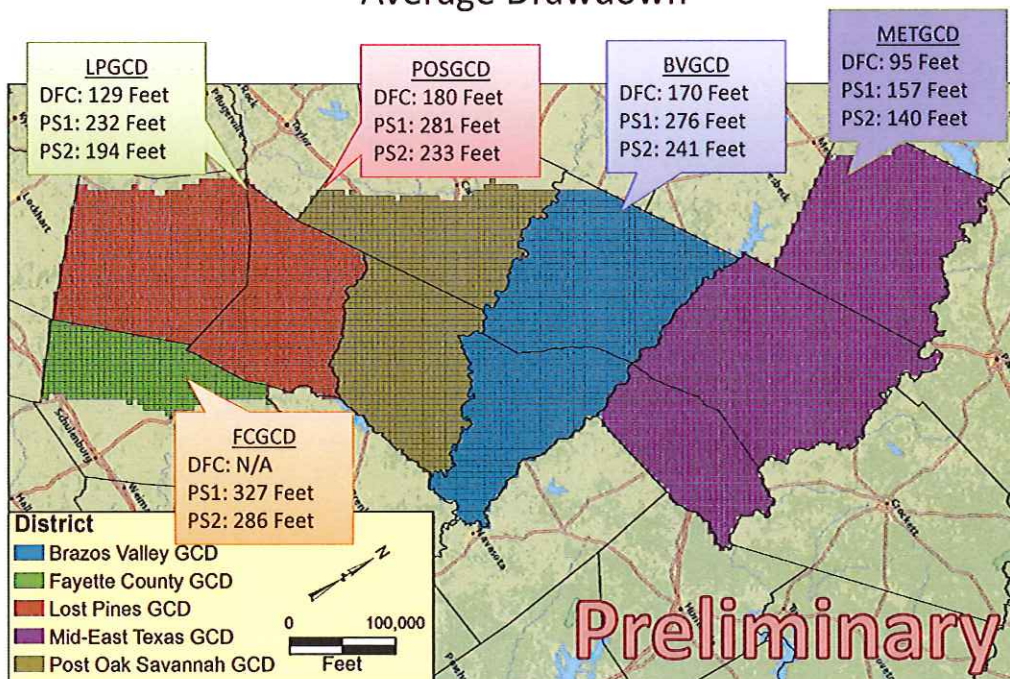
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11



Hooper Aquifer (Layer 8)

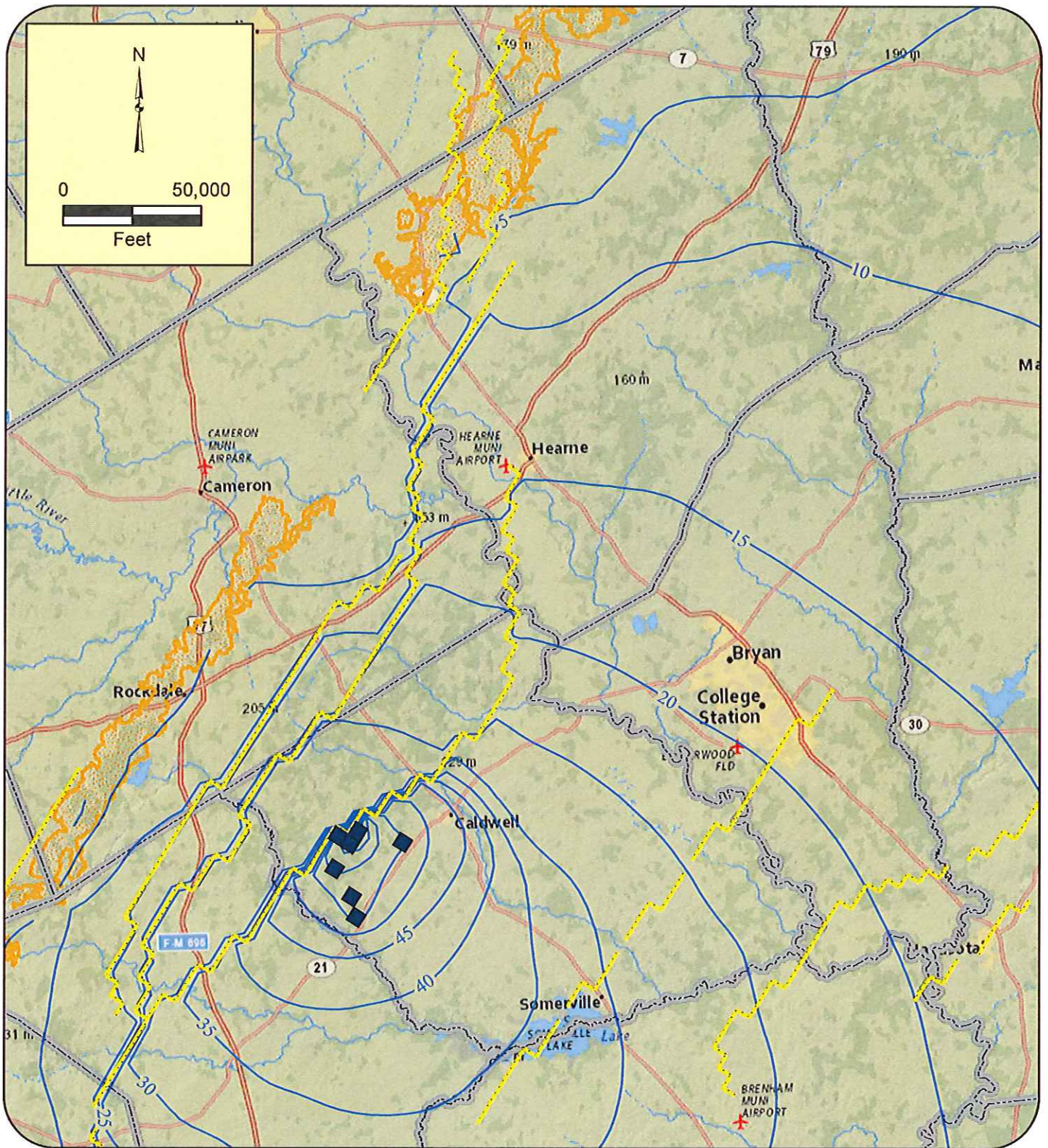
Average Drawdown









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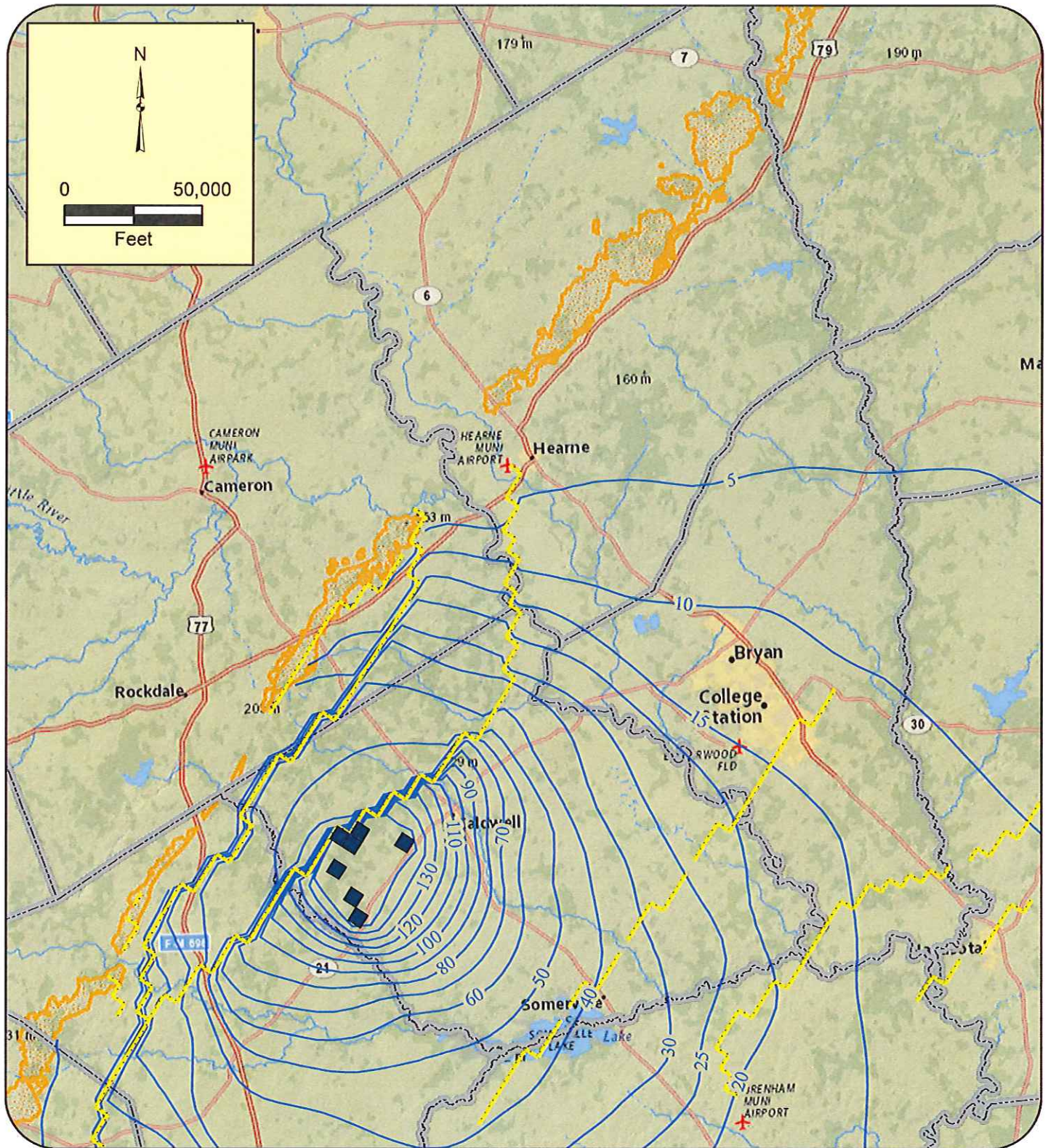
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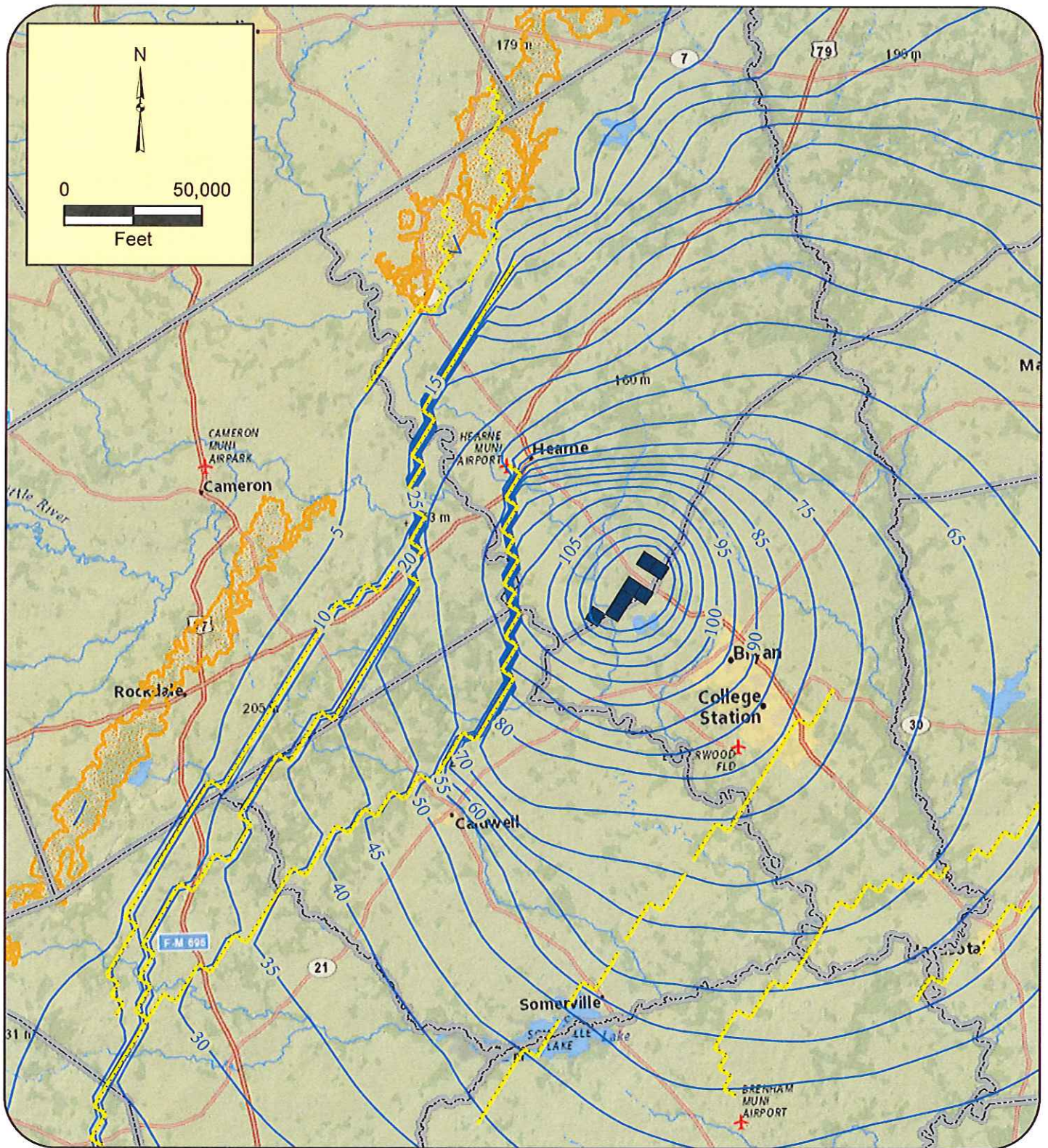
<p> Simulated Additional Drawdown</p> <p> Vista Ridge Pumping Locations</p> <p> Simsboro Outcrop</p> <p> Simulated Fault</p>	<p>Explanation</p> <p>Simulated estimated production from Vista Ridge project in Burleson County.</p> <ul style="list-style-type: none"> - Carrizo Pumping = 15,000 acre-feet/year - Simsboro Pumping = 35,000 acre-feet/year - All production begins in 2020 <p>Contours represent drawdown greater than that resulting from GMA 12 DFC runs calculated from simulated January 1, 2000 water levels.</p>
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<p align="center">Brazos Valley GCD</p> <p align="center"><u>Effect of Potential Vista Ridge Pumping</u> Add'l Simsboro Drawdown - 2070</p>	





<p> Simulated Additional Drawdown</p> <p> Vista Ridge Pumping Locations</p> <p> Carrizo Outcrop</p> <p> Simulated Fault</p>	<p>Explanation</p> <p>Simulated estimated production from Vista Ridge project in Burleson County.</p> <ul style="list-style-type: none"> - Carrizo Pumping = 15,000 acre-feet/year - Simsboro Pumping = 35,000 acre-feet/year - All production begins in 2020 <p>Contours represent drawdown greater than that resulting from GMA 12 DFC runs calculated from simulated January 1, 2000 water levels.</p>
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<p align="center">Brazos Valley GCD</p> <p align="center">Effect of Potential Vista Ridge Pumping Add'l Carrizo Drawdown - 2070</p>	



Explanation	
 Simulated Additional Drawdown	Simulated additional production increase from 96,000 acre-feet per year to 114,000 acre-feet per year. Pumping increase begins in 2050.
 Pumping Locations for Additional 18,000 Acre-Feet per Year	
 Simsboro Outcrop	Contours represent drawdown greater than that resulting from GMA 12 DFC runs calculated from simulated January 1, 2000 water levels.
 Simulated Fault	

	
<p>Brazos Valley GCD Effect of Potential Increased Pumping Add'l Simsboro Drawdown - 2070</p>	