

Appendix A

Table 1. POSGCD flow budget for the Central Queen City and Sparta aquifer GAM in acre-feet per year for average recharge conditions.

County	Lyr	Change in Storage	X-flow in	X-flow out	upper		lower		Wells	Recharge	ET	GHB	Streams	Drains	Total		% diff
					Z flow in	Z flow out	Z flow in	Z flow out							In	Out	
Average Recharge Conditions																	
Milam	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	-532	531	-889	0	0	86	-914	0	4,086	-549	0	-1,818	0	5,050	-5,049	0
	4	149	55	-370	914	-86	105	-1,438	0	1,226	-70	0	-485	0	2,516	-2,516	0
	5	831	1,549	-3,242	1,438	-105	1	-823	-321	3,926	-1,784	0	-1,470	0	7,750	-7,750	0
	6	3,941	601	-3,137	823	-1	147	-7,380	-468	7,435	-27	0	-1,935	0	13,641	-13,642	0
	7	16,668	4,859	-20,417	7,380	-147	1,569	-18	-21,333	12,497	0	0	-1,057	0	48,718	-48,717	0
	8	4,442	1,539	-5,245	18	-1,569	0	0	-903	2,418	-33	0	-668	0	8,423	-8,424	0
	All	25,499	9,135	-33,300	10,573	-1,909	1,909	-10,573	-23,025	31,587	-2,462	0	-7,434	0	86,097	-86,097	0
Burleson	1	-353	528	-774	0	0	492	-4,765	-420	7,707	-1,089	1,006	-2,254	-78	11,910	-11,909	0
	2	-268	66	-54	4,765	-492	333	-5,013	0	848	-6	0	-179	0	6,090	-6,091	0
	3	-328	1,416	-961	5,013	-333	39	-6,583	-101	4,774	0	0	-2,936	0	12,136	-12,135	0
	4	146	391	-210	6,583	-39	48	-6,868	0	19	0	0	-70	0	7,187	-7,187	0
	5	573	3,720	-6,026	6,868	-48	2	-1,431	-3,656	0	0	0	0	0	11,162	-11,162	0
	6	84	3,776	-1,107	1,431	-2	0	-3,879	** -304	0	0	0	0	0	5,291	-5,291	0
	7	77	13,568	-20,181	3,879	0	3,449	0	** -792	0	0	0	0	0	20,973	-20,973	0
	8	87	5,267	-1,377	0	-3,449	0	0	** -528	0	0	0	0	0	5,354	-5,354	0
	All	18	28,732	-30,691	28,538	-4,363	4,363	-28,538	** -5,801	13,349	-1,095	1,006	-5,439	-78	80,104	-80,102	0

Notes:

** Differs from Table 3 because, for two pumping cells located in Burleson County, on the border with Lee County, the pumpage database indicates that the pumping is Bastrop County manufacturing pumpage.

1. Layer 1: Sparta aquifer
2. Layer 2: Weches formation
3. Layer 3: Queen City aquifer
4. Layer 4: Reklaw formation
5. Layer 5: Carrizo aquifer
6. Layer 6: Calvert Bluff
7. Layer 7: Simsboro
8. Layer 8: Hooper
9. All: sum of layers
10. **Change in Storage** refers to water that is extracted from storage or added to storage. A positive number means water is extracted from storage. A negative number means water is added to storage.
11. **GHB** refers to flow into or out of the top of the Sparta from younger sediments.
12. **ET** refers to groundwater extraction due to evapotranspiration.
13. **X-flow in** refers to lateral flow into the county.
14. **X-flow out** refers to lateral flow out of the county.
15. **upper - Z-flow in** refers to flow into the layer from the layer above.
16. **upper - Z-flow out** refers to flow out of the layer into the layer above.
17. **lower - Z-flow in** refers to flow into the layer from the layer below.
18. **lower - Z-flow out** refers to flow out of the layer into the layer below.
19. **Wells** is for pumping.
20. A negative sign refers to flow out of the layer in the county.
21. A positive sign refers to flow into the layer in the county.
22. The numbers are rounded to the nearest 1 acre-ft.