

GAM Run 05-28 Addendum

Table 2. Groundwater flow budget for each aquifer layer, into and out of, Dimmit, La Salle, and Zavala counties, in the steady-state GAM of the southern part of the Queen City and Sparta aquifers. Flows are in acre-feet per year.

Aquifer Layer	Lateral Flow		Top of aquifer		Bottom of aquifer		Recharge	ET	Stream Leakage	
	Into GCD	Out of GCD	Downward Leakage	Upward Leakage	Upward Leakage	Downward Leakage			From Streams	To Streams
Sparta (1)	2,694	-979	3,011	-17,579	12,615	-5,139	9,417	-1,019	504	-3,515
Queen City (3)	6,654	-3,527	5,504	-12,486	15,773	-2,352	21,829	-1,373	3,750	-33,741
Carrizo (5)	9,341	-9,292	2,175	-14,764	8,079	-4,329	12,166	-459	1,251	-4,094
Upper Wilcox (6)	2,125	-1,833	4,329	-8,079	4,980	-1,347	663	-156	0	-656
Middle Wilcox (7)	1,392	-1,243	1,347	-4,980	4,118	-1,234	1,412	-55	463	-1,204
Lower Wilcox (8)	4,812	-3,112	1,234	-4,118	0	0	1,142	-26	345	-282
Total ¹	27,018	-19,986	17,600	-62,006	45,565	-14,401	46,629	-3,088	6,313	-43,492

Note: a negative sign refers to flow out of the aquifer in the GCD. A positive sign refers to flow into the aquifer in the GCD. All numbers are rounded to the nearest 1 acre-foot and are probably only accurate to two significant figures.

¹ The total flows are slightly less than those listed in Table 1 of the original GAM 05-28 report because flows for layers 2 and 4 are not included in this table. Layers 2 and 4 are aquitards.