GAM Run 09-004

by Eric Aschenbach and
Shirley C. Wade, Ph.D, P.G.
Texas Water Development Board
Groundwater Availability Modeling Section
(512) 936-0883
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The seal appearing on this document was authorized by Shirley Wade, P.G. 525, on June 29, 2010.

EXECUTIVE SUMMARY:

This model run is one of multiple model runs that will aid Groundwater Management Area 13 in developing their desired future conditions for the southern portion of the Queen City, Sparta, and Carrizo-Wilcox aquifers. Other previously completed model runs for this portion of the Queen City, Sparta, and Carrizo-Wilcox aquifers are GAM runs 06-29 (Donnelly, 2007a), 07-16 (Donnelly, 2007b), 07-17 (Donnelly, 2007c), 08-41 (Wade, 2008a), 08-42 (Wade, 2008b), and 08-43 (Wade, 2008c).

We extracted and compared budgets for GAM Runs 08-41 (high pumping scenario), 08-42 (low pumping scenario), and 08-43 (medium pumping scenario) at 10 years (2010), 30 years (2030), and 50 years (2050). We also compared budgets at 60 years (2060) for those scenarios to the baseline scenario (GAM Run 06-29). These water budgets can be compared to assess the qualitative effect of additional pumpage on various flow terms in the aquifer water budget.

REQUESTOR:

Mr. Mike Mahoney from the Evergreen Underground Water Conservation District (on behalf of Groundwater Management Area 13).

DESCRIPTION OF REQUEST:

Mr. Mahoney requested that we extract additional water budgets from four previous model runs 08-41 (Wade, 2008a), 08-42 (Wade, 2008b), 08-43 (Wade, 2008c), and 06-29 (Donnelly, 2007a). Those analyses were high, low, medium, and baseline pumping scenarios, respectively, using the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers. Mr. Mahoney requested that water budgets be extracted for baseline and simulation times of 10, 30, and 50 years to get an indication of the various inflow/outflow changes that would occur over the pumping period.

METHODS:

We extracted and tabulated budgets at 10, 30, and 50 years for the high, medium, and low pumping scenarios and at 60 years for the baseline scenario. We also tabulated the budgets from the previous runs to compare with the baseline budget.

PARAMETERS AND ASSUMPTIONS:

The parameters and assumptions for the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers are described below:

- we used Version 2.01 of the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers;

- we used Groundwater Vistas Version 5.30 Build 10 (Environmental Simulations, Inc. 2007) as the interface to process model output results;

- see Deeds and others (2003) and Kelley and others (2004) for assumptions and limitations of the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers;

- the model includes eight layers representing:

    1. the Sparta Aquifer (layer 1),
    2. the Weches Formation (layer 2),
    3. the Queen City Aquifer (layer 3),
    4. the Reklaw Formation (layer 4),
    5. the Carrizo Aquifer (layer 5),
    6. the upper Wilcox Aquifer (layer 6),
    7. the middle Wilcox Aquifer (layer 7), and
    8. the lower Wilcox Aquifer (layer 8).

- although the layers representing the Sparta Aquifer (layer 1) and the Queen City Aquifer (layer 3) extend to the Rio Grande in the model, the portion of these layers west of the Frio River are not recognized as part of either aquifer. No pumpage was assigned to these layers west of the Frio River,

- as described by Kalaswad and Arroyo (2006) and Kelly and others (2004) groundwater in the groundwater availability model for the southern portion of the Queen City, Sparta, and Carrizo-Wilcox aquifers ranges from fresh to saline. The values in this report for flow terms in the water budget (Appendix A) include fresh (less than 1,000 milligrams per liter total dissolved solids), brackish (1,000 to 10,000 milligrams per liter total dissolved solids), and saline (greater than 10,000 milligrams per liter total dissolved solids) groundwater;

- the root mean square error (a measure of the difference between simulated and measured water levels during model calibration) in the model domain for 1999 is 23 feet for the Sparta Aquifer, 18 feet for the Queen City Aquifer, and 33 feet for the Carrizo Aquifer (Kelley and others, 2004).

- recharge rates, evapotranspiration rates, and initial streamflows are averages of historic estimates from 1981 to 1999;

- pumpage used for each year of the 60-year predictive simulation was specified by members of Groundwater Management Area 13. Details on this pumpage are given in Donnelly (2007a,b, and c) and Wade (2008a,b,and c)

RESULTS:

The water budgets after 10, 30, and 50 years for the low, medium, and high pumping scenarios are compared in Table 1. The high, medium, low, and baseline pumping scenario water budgets after 60 years are listed in Table 2. The components of the water budget are divided up into "In" and "Out", representing water that is coming into and leaving from the water budget. As might be expected, water from wells is only in the "Out" column, representing water that is pulled out of the budget or aquifer system from wells. Likewise, recharge is only found in the "In" column. Streams and rivers, however, have values in both the "In" and "Out" columns. This is because some streams lose water to the aquifer, and some gain water from the aquifer depending on the water levels in the aquifer. Also included in these budgets are values for vertical leakage to overlying and underlying formations as well as lateral inflow from adjacent counties. The components of the water budget are described below.

- Wells—water produced from wells in each aquifer. In the model this component is always shown as "Outflow" from the water budget, because all wells included in the model produce (rather than inject) water. Wells are simulated in the model using the MODFLOW Well package.

- Springs—water that naturally discharges from an aquifer when water levels rise above the elevation of the spring. This component is always shown as "Outflow", or discharge, from the water budget. Spring flows are simulated in the model using the MODFLOW Drain package.

- Recharge—simulates areally distributed recharge due to precipitation falling on the outcrop (where the aquifer is exposed at land surface) areas of aquifers. Recharge is always shown as "Inflow" into the water budget.

- Vertical leakage—describes the vertical flow, or leakage, between two layers (aquifers or confining units) in the model. This flow is controlled by the water levels in each of the layers and aquifer properties of each layer that define the amount of leakage that can occur. "Inflow" to an aquifer from an overlying or underlying layer will always equal the "Outflow" from the other layer.

- Storage—water stored in the aquifer. The storage component that is included in "Inflow" is water that is removed from storage in the aquifer (that is, water levels decline). The storage component that is included in "Outflow" is water that is added back into storage in the aquifer (that is, water levels increase). This component of the budget is often seen as water both going into and out of the aquifer with water levels declining in some areas (water removed from storage) and rising in others (water added to storage).

- Lateral flow—describes lateral flow within an aquifer between a county and adjacent counties.

- Evapotranspiration—water that flows out of an aquifer due to direct evaporation and plant transpiration. This component of the budget will always be shown as "Outflow". Evapotranspiration is modeled in the model using the MODFLOW Evapotranspiration (EVT) package.

- Rivers and Streams—water that flows between streams and rivers and an aquifer. The direction and amount of flow depends on the water level in the stream or river and the aquifer. In areas where water levels in the stream or river are above the water level in the aquifer, water flows into the aquifer and is shown as "Inflow" in the budget. In areas where water levels in the aquifer are above the water level in the stream or river, water flows out of the aquifer and into the stream and is shown as "Outflow" in the budget. Rivers and streams are modeled in the model using the MODFLOW Stream-Flow Routing package.

- General-Head Boundary (GHB)—The model uses general head boundaries to simulate groundwater flow across the lateral aquifer boundaries. In addition, vertical movement of groundwater between the Sparta Aquifer (layer 1) and younger sediments that overlie the Sparta Aquifer in the downdip portions (areas where the layer is confined or covered by other aquifers or geologic formations) are simulated using general head boundaries.

The results are tabulated (tables 1 and 2) for the four aquifers in the model area; the Sparta Aquifer (layer 1 in the model), the Queen City Aquifer (layer 3), the Carrizo Aquifer (layer 5), and the Wilcox Aquifer (layers 6, 7, and 8). Results for the other layers included in the model are not discussed because they do not represent aquifers in the region.

A small number of model cells went dry during the model run. Dry cells occur when the water level in a cell falls below the bottom of the cell. If high pumping is the primary factor for a cell going dry, the model is saying that the pumping may be too great for the aquifer in this area. Although, the MODFLOW rewetting package is active in the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers, some model cells remain dry during the simulation. It is important to identify why a cell stays dry and address the causes. In reality, the aquifer will probably not go dry because pumping will become uneconomical before the aquifer actually is fully dewatered in any particular area. Some of these cells went dry during the historic calibration period, and therefore, are not caused by conditions set for this predictive model run. All model cells that went dry during the run are located in the outcrop portions of the model, where the aquifer is thin and lies under unconfined conditions.

Some of the water budget values listed in Table 1 differ from the amounts listed at the end of the 60-year simulations in GAM Runs 06-29, 08-41, 08-42, and 08-43. These differences are because we have refined our water budget extraction process. We no longer include modeled areas that are not within the official aquifer boundary and we extract water budget information strictly based on the location of the model cell centroid. The centroid based approach resolves some of the issues identified in GAM Runs 08-41,

08-42, and 08-43 where water budget values for a well field or portion of a well field were assigned to an adjoining county.

REFERENCES:

Deeds, N., Kelley, V., Fryar, D., Jones, T., Whallon, A. J., and Dean, K. E., 2003, Groundwater Availability Model for the Southern Carrizo-Wilcox Aquifer: contract report to the Texas Water Development Board, 452 p.

Donnelly, A.C.A., 2007a, GAM Run 06-29, Texas Water Development Board GAM Run Report, 59 p.

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Kalaswad, S., and Arroyo, J., 2006, Status report on brackish groundwater and desalination in the Gulf Coast Aquifer of Texas *in* Mace, R.E., Davison, S.C., Angle, E.S., and Mullican, III, W.F., eds., Aquifers of the Gulf Coast of Texas: Texas Water Development Board Report 365, p. 231–240.

Kelley, V. A., Deeds, N. E., Fryar, D. G., and Nicot, J. P., 2004, Groundwater availability models for the Queen City and Sparta aquifers: contract report to the Texas Water Development Board, 867 p.

Wade, S.C. 2008a, GAM Run 08-41, Texas Water Development Board GAM Run Report, 59 p.

Wade, S.C. 2008b, GAM Run 08-42, Texas Water Development Board GAM Run Report, 59 p.

Wade, S.C. 2008c, GAM Run 08-43, Texas Water Development Board GAM Run Report, 59 p.

Table 1. Annual water budgets for each county in Groundwater Management Area 13 at the end of the 10, 30, and 50 years in predictive model runs in the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers. Values are reported in acre-feet per year.

ATASCOSA County

Sparta Aquifer

	GAM Run 08_41 high pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	999	601	766	276	686	152	618	760	384	412	288	222	786	684	553	333	458	170
Wells	0	896	0	895	0	895	0	514	0	513	0	513	0	699	0	699	0	699
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	2,306	0	2,306	0	2,306	0	2,306	0	2,306	0	2,306	0	2,306	0	2,306	0	2,306	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	225	568	225	478	230	429	222	595	217	534	217	505	223	584	221	509	223	469
General Head Boundary	3,820	3,508	4,751	2,491	5,546	1,957	3,143	4,495	3,323	4,070	3,538	3,733	3,428	4,057	3,926	3,323	4,371	2,835
Vertical Leakage Lower	1,724	3,978	914	5,241	510	6,220	2,633	3,051	2,289	3,457	2,005	3,827	2,239	3,433	1,648	4,224	1,268	4,856
Lateral Flow	688	211	679	262	682	307	706	212	694	227	686	241	686	211	671	238	666	263

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	2,384	1,459	2,234	566	2,662	232	347	2,643	389	1,650	412	1,028	1,168	2,031	1,090	1,025	1,257	496
Wells	0	5,288	0	5,288	0	5,288	0	989	0	989	0	989	0	2,708	0	2,708	0	2,708
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	5,166	0	5,166	0	5,166	0	5,166	0	5,166	0	5,166	0	5,166	0	5,166	0	5,166	0
Evapotranspiration	0	43	0	15	0	0	0	65	0	60	0	53	0	55	0	41	0	26
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,335	2,072	3,432	1,826	3,551	1,614	3,244	2,299	3,234	2,346	3,249	2,320	3,283	2,203	3,313	2,100	3,350	1,950
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,368	1,663	5,603	863	6,525	453	3,241	2,621	3,612	2,281	3,996	1,994	3,713	2,206	4,486	1,616	5,119	1,234
Vertical Leakage Lower	175	6,079	10	9,063	0	11,478	241	4,638	101	6,295	31	7,669	205	5,382	40	7,719	0	9,616
Lateral Flow	1,787	611	1,972	795	2,103	942	1,655	638	1,816	696	1,954	754	1,672	622	1,846	733	1,971	832

ATASCOSA County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	26,959	644	22,902	357	19,772	233	16,568	794	13,561	479	11,288	315	21,945	773	18,137	455	15,719	294
Wells	0	59,840	0	59,840	0	59,840	0	39,977	0	39,977	0	39,977	0	49,971	0	49,971	0	49,971
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	8,119	0	8,119	0	8,119	0	8,119	0	8,119	0	8,119	0	8,119	0	8,119	0	8,119	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,419	26	1,391	7	1,464	0	1,408	43	1,340	21	1,385	18	1,410	41	1,350	19	1,407	15
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	9,248	0	12,438	0	14,934	0	6,507	44	8,490	1	9,981	0	7,861	0	10,524	0	12,512	0
Vertical Leakage Lower	3,820	469	3,868	490	4,112	512	2,576	442	2,822	410	3,044	445	3,177	455	3,344	444	3,575	483
Lateral Flow	24,086	12,673	23,846	11,870	23,563	11,378	17,610	11,488	17,035	10,479	16,858	9,919	20,930	12,200	20,506	11,091	20,261	10,830

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	452	71	309	13	257	0	174	83	162	0	132	0	309	80	234	0	195	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	469	3,820	490	3,868	512	4,112	442	2,576	410	2,822	445	3,044	455	3,177	444	3,344	483	3,575
Vertical Leakage Lower	2,949	235	2,999	285	3,186	301	2,202	199	2,330	234	2,502	259	2,576	215	2,674	261	2,848	282
Lateral Flow	362	105	454	86	544	87	172	132	242	86	298	75	264	131	345	93	419	88

ATASCOSA County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	2,934	16	3,071	0	3,110	0	1,629	38	1,731	1	1,708	0	2,273	24	2,397	0	2,399	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	622	0	622	0	622	0	622	0	622	0	622	0	622	0	622	0	622	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	642	0	642	0	642	0	642	0	642	0	642	0	642	0	642	0	642	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	235	2,949	285	2,999	301	3,186	199	2,202	234	2,330	259	2,502	215	2,576	261	2,674	282	2,848
Vertical Leakage Lower	582	1,906	516	2,131	608	2,183	631	1,354	610	1,441	718	1,442	605	1,622	559	1,771	654	1,801
Lateral Flow	798	942	932	938	1,048	961	743	873	798	866	847	851	771	905	868	903	955	904

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	5,663	29	3,623	0	2,959	0	2,984	45	1,699	0	1,336	0	4,319	35	2,660	0	2,159	0
Wells	0	5,556	0	5,556	0	5,556	0	3,333	0	3,333	0	3,333	0	4,445	0	4,445	0	4,445
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,906	582	2,131	516	2,183	608	1,354	631	1,441	610	1,442	718	1,622	605	1,771	559	1,801	654
Lateral Flow	5,395	6,798	6,693	6,375	7,517	6,495	4,446	4,774	4,900	4,097	5,298	4,025	4,908	5,765	5,777	5,205	6,391	5,253

BEXAR County

Sparta Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

BEXAR County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	10,391	133	7,989	203	6,495	166	7,049	146	4,973	226	3,888	166	8,803	140	6,579	207	5,281	167
Wells	0	6,206	0	6,123	0	5,956	0	6,206	0	6,123	0	6,123	0	6,206	0	6,123	0	6,123
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	4,423	0	4,350	0	4,277	0	4,423	0	4,350	0	4,350	0	4,423	0	4,350	0	4,350	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	878	0	1,175	0	1,276	0	837	0	1,021	0	1,140	0	859	0	1,102	0	1,215	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	136	0	143	0	138	0	124	0	133	0	131	0	131	0	140	0	134	0
Vertical Leakage Lower	81	425	269	247	367	275	101	373	287	205	333	215	90	397	279	224	339	243
Lateral Flow	1,333	10,480	1,537	8,889	1,747	7,902	1,511	7,320	1,603	5,813	1,712	5,049	1,392	8,954	1,488	7,384	1,669	6,455

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	16	329	13	22	8	40	12	330	7	23	14	19	14	329	10	22	15	18
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	288	0	361	0	434	0	288	0	361	0	361	0	288	0	361	0	361	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	425	81	247	269	275	367	373	101	205	287	215	333	397	90	224	279	243	339
Vertical Leakage Lower	4	256	14	260	35	244	10	195	22	218	41	205	6	224	17	235	38	214
Lateral Flow	9	76	13	97	14	116	9	67	11	78	12	87	9	71	12	87	13	101

BEXAR County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	3,802	13	3,750	5	3,521	3	2,904	14	2,656	5	2,371	3	3,362	13	3,191	5	3,012	3
Wells	0	5,661	0	5,556	0	5,475	0	5,661	0	5,556	0	5,475	0	5,661	0	5,556	0	5,475
Springs (Drain Package)	0	112	0	89	0	65	0	117	0	107	0	94	0	115	0	98	0	79
Recharge	2,916	0	2,863	0	2,839	0	2,916	0	2,863	0	2,839	0	2,916	0	2,863	0	2,839	0
Evapotranspiration	0	11	0	12	0	11	0	12	0	12	0	12	0	12	0	12	0	11
Reservoirs (River Package)	1,652	0	1,715	0	1,787	0	1,637	0	1,663	0	1,699	0	1,645	0	1,688	0	1,746	0
Rivers and Streams (Stream Package)	2,779	197	3,711	0	4,314	0	2,523	447	2,965	171	3,339	77	2,636	304	3,340	59	3,853	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	256	4	260	14	244	35	195	10	218	22	205	41	224	6	235	17	214	38
Vertical Leakage Lower	0	4,866	0	5,868	0	6,230	0	3,531	0	4,065	0	4,265	0	4,205	0	4,978	0	5,353
Lateral Flow	591	1,130	601	1,355	631	1,517	576	960	604	1,031	617	1,104	583	1,048	600	1,191	612	1,317

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	8,595	108	7,226	23	6,489	15	5,094	115	3,934	23	3,295	14	6,849	112	5,574	23	4,696	15
Wells	0	15,848	0	15,804	0	15,706	0	11,774	0	11,730	0	11,691	0	13,811	0	13,767	0	13,669
Springs (Drain Package)	0	33	0	45	0	47	0	33	0	45	0	47	0	33	0	45	0	47
Recharge	4,959	0	4,974	0	4,936	0	4,959	0	4,974	0	4,969	0	4,959	0	4,974	0	4,936	0
Evapotranspiration	0	129	0	157	0	159	0	129	0	157	0	159	0	129	0	157	0	159
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,476	482	4,121	381	4,464	322	3,227	492	3,748	425	4,022	384	3,354	487	3,935	403	4,275	351
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,866	0	5,868	0	6,230	0	3,531	0	4,065	0	4,265	0	4,205	0	4,978	0	5,353	0
Lateral Flow	6,242	11,538	6,559	12,339	6,735	12,605	4,151	8,418	4,353	8,694	4,416	8,670	5,193	9,988	5,451	10,517	5,567	10,587

CALDWELL County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	235	90	286	29	283	14	48	128	51	59	44	32	120	108	138	41	127	19
Wells	0	47	0	47	0	47	0	9	0	9	0	9	0	28	0	28	0	28
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,084	0	1,084	0	1,084	0	1,084	0	1,084	0	1,084	0	1,084	0	1,084	0	1,084	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	63	128	171	64	238	58	38	260	41	235	44	223	44	205	62	127	96	104
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Lower	0	132	0	167	0	185	0	103	0	123	0	135	0	117	0	144	0	160
Lateral Flow	132	1,117	115	1,348	114	1,414	147	817	139	888	136	908	141	932	125	1,068	118	1,112

CALDWELL County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	9,349	10	5,040	8	3,292	22	5,196	12	2,570	3	1,423	2	7,152	11	3,737	5	2,114	18
Wells	0	10,202	0	10,202	0	10,202	0	6,199	0	6,199	0	6,199	0	8,197	0	8,197	0	8,197
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	5,420	0	5,420	0	5,420	0	5,420	0	5,420	0	5,420	0	5,420	0	5,420	0	5,420	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	75	0	75	0	75	0	75	0	75	0	75	0	75	0	75	0	75	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,574	0	1,833	0	1,947	0	1,349	0	1,545	0	1,621	0	1,460	0	1,685	0	1,788	0
Vertical Leakage Lower	63	545	131	610	174	616	88	325	139	320	163	316	76	403	134	430	166	420
Lateral Flow	4,720	10,445	5,722	7,401	6,223	6,291	2,751	8,343	3,241	6,467	3,473	5,659	3,734	9,307	4,447	6,867	4,846	5,774

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	7	105	8	58	16	23	4	110	2	60	1	34	5	107	3	58	7	20
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	545	63	610	131	616	174	325	88	320	139	316	163	403	76	430	134	420	166
Vertical Leakage Lower	0	357	0	405	0	413	0	107	1	101	2	98	0	201	0	218	0	218
Lateral Flow	5	31	7	31	11	33	3	27	3	27	4	27	4	29	5	28	6	29

CALDWELL County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	12,923	2	9,920	0	7,819	0	5,704	3	3,595	0	2,657	0	9,085	3	6,432	0	5,139	3
Wells	0	18,709	0	18,195	0	17,305	0	9,522	0	9,256	0	9,119	0	14,081	0	13,681	0	13,583
Springs (Drain Package)	0	6	0	0	0	0	0	13	0	4	0	1	0	9	0	1	0	0
Recharge	4,127	0	4,019	0	3,814	0	4,188	0	4,109	0	4,045	0	4,150	0	4,045	0	4,017	0
Evapotranspiration	0	22	0	15	0	7	0	25	0	18	0	17	0	24	0	17	0	12
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	2,038	2,116	3,161	454	3,873	37	1,221	4,101	1,844	3,017	2,067	2,549	1,735	3,043	2,275	1,302	2,765	811
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	357	0	405	0	413	0	107	0	101	1	98	2	201	0	218	0	218	0
Vertical Leakage Lower	28	1,841	19	2,436	26	2,517	638	776	436	676	345	580	201	1,198	31	1,392	19	1,446
Lateral Flow	4,723	1,500	5,643	2,066	6,093	2,172	3,202	618	3,420	534	3,539	484	3,866	879	4,408	1,016	4,755	1,058

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	8,135	6	6,715	0	5,763	0	2,888	123	1,963	35	1,487	40	5,375	36	4,085	13	3,444	2
Wells	0	19,318	0	19,181	0	18,802	0	9,620	0	9,620	0	9,558	0	14,460	0	14,460	0	14,387
Springs (Drain Package)	0	11	0	16	0	15	0	58	0	64	0	64	0	29	0	30	0	32
Recharge	4,538	0	4,562	0	4,515	0	4,477	0	4,555	0	4,578	0	4,514	0	4,619	0	4,606	0
Evapotranspiration	0	48	0	33	0	31	0	125	0	152	0	156	0	81	0	77	0	81
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	2,297	40	3,192	0	3,362	0	1,200	446	1,648	174	1,937	110	1,676	130	2,581	30	2,979	29
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,841	28	2,436	19	2,517	26	776	638	676	436	580	345	1,198	201	1,392	31	1,446	19
Lateral Flow	5,744	3,103	6,850	4,507	7,539	4,821	2,714	1,046	2,980	1,342	3,131	1,440	4,194	2,021	4,834	2,870	5,264	3,190

DIMMIT County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

DIMMIT County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	918	2,222	524	1,156	412	607	673	4,011	231	2,830	71	2,181	805	2,581	399	1,530	223	910
Wells	0	3,622	0	3,622	0	3,622	0	2,180	0	2,180	0	2,180	0	3,271	0	3,271	0	3,271
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	5,490	0	5,490	0	5,490	0	5,490	0	5,490	0	5,490	0	5,490	0	5,490	0	5,490	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	841	0	841	0	841	0	841	0	841	0	841	0	841	0	841	0	841	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	8,299	93	8,961	8	9,645	3	6,593	201	6,414	58	6,613	15	7,786	110	8,182	12	8,692	6
Vertical Leakage Lower	2,870	4,884	2,614	5,017	2,415	5,245	2,687	4,931	2,458	4,722	2,214	4,745	2,763	4,900	2,548	4,931	2,345	5,094
Lateral Flow	898	8,493	934	9,559	971	10,297	1,018	5,979	1,042	6,686	1,073	7,181	900	7,722	923	8,638	955	9,265

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,682	768	1,120	421	857	259	1,343	1,150	636	551	321	364	1,549	856	978	454	687	283
Wells	0	1,630	0	1,630	0	1,630	0	977	0	977	0	977	0	1,465	0	1,465	0	1,465
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	345	0	345	0	345	0	345	0	345	0	345	0	345	0	345	0	345	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	178	63	134	92	109	109	177	64	130	94	101	114	178	63	132	93	106	111
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,884	2,870	5,017	2,614	5,245	2,415	4,931	2,687	4,722	2,458	4,745	2,214	4,900	2,763	4,931	2,548	5,094	2,345
Vertical Leakage Lower	1,195	1,461	1,265	1,399	1,206	1,507	840	1,593	1,001	1,381	997	1,381	1,070	1,506	1,174	1,403	1,142	1,475
Lateral Flow	1,182	2,675	1,207	2,932	1,259	3,100	1,112	2,277	1,070	2,442	1,084	2,543	1,156	2,544	1,155	2,753	1,187	2,881

DIMMIT County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,886	398	1,638	30	1,490	1	1,717	890	1,271	261	1,008	68	1,844	537	1,507	77	1,326	5
Wells	0	232	0	232	0	232	0	141	0	141	0	141	0	210	0	210	0	210
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	724	0	724	0	724	0	724	0	724	0	724	0	724	0	724	0	724	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	271	1	271	1	271	2	271	1	271	2	271	2	271	1	271	2	271	2
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,461	1,195	1,399	1,265	1,507	1,206	1,593	840	1,381	1,001	1,381	997	1,506	1,070	1,403	1,174	1,475	1,142
Vertical Leakage Lower	1,008	2,200	959	2,098	903	2,079	723	2,161	731	1,964	720	1,887	945	2,196	925	2,064	890	2,020
Lateral Flow	664	1,989	691	2,056	705	2,081	655	1,651	658	1,668	658	1,666	659	1,936	677	1,981	688	1,995

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	844	410	953	22	1,043	10	756	1,076	624	306	574	71	799	598	788	63	865	11
Wells	0	61	0	61	0	61	0	37	0	37	0	37	0	50	0	50	0	50
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	268	0	268	0	268	0	268	0	268	0	268	0	268	0	268	0	268	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	193	0	193	0	193	0	193	0	193	0	193	0	193	0	193	0	193	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2,200	1,008	2,098	959	2,079	903	2,161	723	1,964	731	1,887	720	2,196	945	2,064	925	2,020	890
Lateral Flow	2,233	4,259	2,322	4,791	2,475	5,083	2,213	3,755	2,027	4,002	2,004	4,100	2,194	4,056	2,181	4,456	2,281	4,676

FRIO County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,665	89	1,088	41	664	30	1,389	128	856	73	501	49	1,561	95	990	49	619	35
Wells	0	825	0	822	0	818	0	77	0	77	0	77	0	621	0	619	0	619
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,310	0	1,310	0	1,310	0	1,310	0	1,310	0	1,310	0	1,310	0	1,310	0	1,310	0
Evapotranspiration	0	188	0	159	0	74	0	191	0	159	0	74	0	189	0	159	0	74
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	103	100	104	76	105	61	100	106	100	84	101	71	102	102	103	79	104	65
General Head Boundary	5,046	795	5,516	556	5,853	387	4,416	921	4,511	752	4,585	643	4,788	839	5,081	622	5,290	490
Vertical Leakage Lower	0	5,065	0	5,234	0	5,395	0	4,689	0	4,494	1	4,426	0	4,843	0	4,834	0	4,886
Lateral Flow	47	1,108	28	1,159	20	1,187	37	1,141	20	1,159	14	1,173	44	1,115	25	1,148	16	1,170

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,163	7,540	948	4,857	1,084	3,119	250	11,585	80	9,486	48	7,868	585	9,434	344	6,951	297	5,156
Wells	0	4,267	0	4,267	0	4,267	0	87	0	87	0	87	0	2,139	0	2,139	0	2,139
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	9,497	0	9,497	0	9,497	0	9,497	0	9,497	0	9,497	0	9,497	0	9,497	0	9,497	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	4,659	4	4,665	4	4,655	4	4,663	9	4,666	10	4,651	11	4,660	7	4,666	7	4,653	8
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	5,459	0	5,664	0	5,843	0	5,023	0	4,820	0	4,742	0	5,212	0	5,222	0	5,277	0
Vertical Leakage Lower	0	7,977	0	10,275	0	12,038	0	6,752	0	8,200	0	9,444	0	7,398	0	9,320	0	10,844
Lateral Flow	1,191	2,182	1,170	2,541	1,142	2,793	1,106	2,105	1,064	2,343	1,036	2,563	1,149	2,125	1,114	2,426	1,086	2,664

FRIO County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	28,496	35	25,557	37	22,794	20	17,869	24	15,095	28	12,911	22	23,555	27	20,854	25	18,125	24
Wells	0	99,980	0	99,980	0	99,980	0	79,969	0	79,969	0	79,969	0	89,979	0	89,979	0	89,979
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,801	0	1,801	0	1,801	0	1,801	0	1,801	0	1,801	0	1,801	0	1,801	0	1,801	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	472	0	473	0	473	0	470	0	471	0	471	0	471	0	472	0	472	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	20,194	0	23,875	0	26,700	0	16,444	0	18,726	0	20,467	0	18,489	0	21,598	0	23,945	0
Vertical Leakage Lower	8,129	240	8,432	260	8,898	268	7,226	242	8,053	223	8,500	226	7,737	236	8,306	237	8,763	240
Lateral Flow	51,703	10,540	48,678	8,540	46,718	7,116	44,274	7,849	42,174	6,100	41,218	5,151	47,785	9,595	44,959	7,749	43,537	6,400

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	257	0	200	0	177	0	90	3	111	0	97	0	186	0	161	0	144	0
Wells	0	2	0	2	0	2	0	0	0	0	0	0	0	1	0	1	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	240	8,129	260	8,432	268	8,898	242	7,226	223	8,053	226	8,500	236	7,737	237	8,306	240	8,763
Vertical Leakage Lower	6,237	10	6,398	21	6,750	33	5,752	5	6,407	12	6,769	19	6,067	8	6,486	17	6,844	28
Lateral Flow	1,534	128	1,710	112	1,842	103	1,276	126	1,433	109	1,529	102	1,392	135	1,559	119	1,673	110

FRIO County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,743	0	1,297	0	1,094	0	451	69	562	0	513	0	1,115	0	966	0	822	0
Wells	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	10	6,237	21	6,398	33	6,750	5	5,752	12	6,407	19	6,769	8	6,067	17	6,486	28	6,844
Vertical Leakage Lower	2,128	23	2,223	31	2,461	61	3,247	0	3,465	0	3,687	3	2,715	4	2,886	7	3,119	21
Lateral Flow	2,663	282	3,139	251	3,473	250	2,379	263	2,583	215	2,750	197	2,515	281	2,870	245	3,130	234

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	2,253	0	1,334	0	1,105	0	714	37	523	0	498	0	1,512	0	972	0	832	0
Wells	0	9,993	0	9,993	0	9,993	0	5,005	0	5,005	0	5,005	0	7,499	0	7,499	0	7,499
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	23	2,128	31	2,223	61	2,461	0	3,247	0	3,465	3	3,687	4	2,715	7	2,886	21	3,119
Lateral Flow	10,456	611	11,379	528	11,755	466	8,323	748	8,555	608	8,725	534	9,364	667	9,974	569	10,277	513

GONZALES County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,653	89	1,298	13	1,059	0	297	292	194	138	155	75	694	139	529	46	449	13
Wells	0	3,716	0	3,716	0	3,716	0	1,133	0	1,133	0	1,133	0	1,994	0	1,994	0	1,994
Springs (Drain Package)	0	41	0	26	0	18	0	41	0	28	0	24	0	41	0	27	0	21
Recharge	2,999	0	2,999	0	2,999	0	2,999	0	2,999	0	2,999	0	2,999	0	2,999	0	2,999	0
Evapotranspiration	0	5	0	3	0	2	0	5	0	4	0	3	0	5	0	4	0	3
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	5	915	16	677	17	523	0	1,227	0	1,161	0	1,121	0	1,113	3	973	6	891
General Head Boundary	522	1,661	727	1,290	904	1,063	206	2,244	238	2,102	261	2,007	295	2,003	385	1,752	449	1,590
Vertical Leakage Lower	1,798	518	1,274	600	955	652	2,177	402	1,936	454	1,788	485	1,984	448	1,611	513	1,378	555
Lateral Flow	491	523	524	512	548	505	344	679	351	698	353	707	393	621	412	631	421	635

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	5,621	841	4,528	373	4,129	188	1,175	1,535	874	798	766	459	2,763	1,088	2,170	504	1,984	275
Wells	0	9,309	0	9,309	0	9,309	0	1,955	0	1,955	0	1,955	0	4,711	0	4,711	0	4,711
Springs (Drain Package)	0	4	0	5	0	0	0	17	0	15	0	21	0	11	0	11	0	12
Recharge	6,011	0	6,011	0	6,011	0	6,011	0	6,011	0	6,011	0	6,011	0	6,011	0	6,011	0
Evapotranspiration	0	28	0	6	0	5	0	128	0	62	0	38	0	95	0	17	0	7
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	609	2,204	830	1,259	1,302	1,006	494	3,262	514	3,101	536	2,973	539	2,846	580	2,290	615	1,908
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,097	1,581	1,446	1,073	1,603	771	677	2,067	836	1,823	928	1,675	834	1,836	1,079	1,456	1,202	1,224
Vertical Leakage Lower	100	1,093	15	2,497	6	3,490	388	690	75	1,425	34	1,983	198	914	25	2,015	14	2,801
Lateral Flow	3,000	1,378	3,437	1,744	3,616	1,899	2,196	1,287	2,393	1,524	2,469	1,639	2,484	1,328	2,768	1,628	2,879	1,768

GONZALES County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	10,540	0	7,664	0	7,297	0	5,188	0	3,505	0	2,644	0	7,537	0	5,408	0	4,271	0
Wells	0	50,727	0	50,727	0	50,727	0	30,718	0	30,718	0	30,718	0	40,720	0	40,720	0	40,720
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,517	0	1,517	0	1,517	0	1,517	0	1,517	0	1,517	0	1,517	0	1,517	0	1,517	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	179	1,581	2,599	0	2,923	0	0	3,732	256	1,503	676	607	0	2,586	765	29	2,354	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,671	56	6,820	3	8,388	0	2,770	515	4,055	215	4,796	133	3,710	197	5,443	52	6,560	18
Vertical Leakage Lower	289	1,249	167	2,277	187	2,579	593	148	609	192	642	198	429	439	253	735	259	843
Lateral Flow	37,537	1,121	35,796	1,556	35,325	2,331	26,152	1,106	24,211	1,524	23,431	2,050	31,711	961	29,599	1,449	28,793	2,174

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	106	18	71	0	73	0	61	26	33	5	27	0	83	22	48	0	46	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,249	289	2,277	167	2,579	187	148	593	192	609	198	642	439	429	735	253	843	259
Vertical Leakage Lower	149	1,310	29	2,335	26	2,619	447	101	473	151	507	157	264	424	106	731	100	826
Lateral Flow	118	5	133	8	143	16	70	6	74	7	77	10	93	5	101	6	107	11

GONZALES County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	9,854	0	4,272	0	2,588	0	2,515	0	1,235	0	786	0	5,463	0	2,481	0	1,558	0
Wells	0	20,074	0	20,074	0	20,074	0	4,064	0	4,064	0	4,064	0	10,086	0	10,086	0	10,086
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	182	0	182	0	182	0	182	0	182	0	182	0	182	0	182	0	182	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,039	884	1,353	341	1,471	0	797	1,187	968	1,002	1,051	916	916	1,034	1,217	709	1,355	535
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,310	149	2,335	29	2,619	26	101	447	151	473	157	507	424	264	731	106	826	100
Vertical Leakage Lower	284	160	784	214	1,002	265	170	10	287	2	363	4	45	86	253	95	376	129
Lateral Flow	10,441	1,842	13,903	2,172	14,831	2,329	3,472	1,528	4,106	1,388	4,357	1,405	6,055	1,615	7,865	1,733	8,417	1,863

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	7,245	0	2,716	0	1,865	0	2,060	0	707	0	519	0	4,573	0	1,658	0	1,147	0
Wells	0	29,996	0	29,996	0	29,996	0	9,996	0	9,996	0	9,996	0	19,990	0	19,990	0	19,990
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	160	284	214	784	265	1,002	10	170	2	287	4	363	86	45	95	253	129	376
Lateral Flow	24,052	1,177	29,110	1,259	30,195	1,327	8,616	519	10,085	510	10,359	523	16,195	819	19,348	859	19,995	906

GUADALUPE County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	0	32	0	26	0	20	0	43	0	35	0	29	0	37	0	31	0	25
Wells	0	10	0	10	0	10	0	0	0	0	0	0	0	5	0	5	0	5
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Lower	0	30	0	33	0	35	0	28	0	34	0	38	0	30	0	33	0	36
Lateral Flow	1	9	1	11	1	15	1	9	1	10	1	13	1	9	1	11	1	14

GUADALUPE County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	16,487	1,099	12,680	830	10,158	746	12,030	1,167	8,021	893	5,936	625	14,446	1,131	10,275	856	7,935	584
Wells	0	14,206	0	14,206	0	14,206	0	12,100	0	12,100	0	12,100	0	13,153	0	13,153	0	13,153
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	7,210	0	7,210	0	7,210	0	7,210	0	7,210	0	7,210	0	7,210	0	7,210	0	7,210	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	83	28	343	0	561	0	83	114	174	0	305	0	83	70	258	0	436	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	742	0	713	0	663	0	681	9	725	0	682	0	710	3	720	0	671	0
Vertical Leakage Lower	78	713	148	526	266	598	125	612	252	392	349	448	102	645	211	452	314	498
Lateral Flow	3,307	11,862	3,843	9,375	4,593	7,900	2,906	9,034	3,737	6,735	4,372	5,680	3,055	10,604	3,756	7,969	4,471	6,801

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	8	325	6	26	5	0	6	326	4	8	3	0	7	326	5	27	4	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	713	78	526	148	598	266	612	125	392	252	448	349	645	102	452	211	498	314
Vertical Leakage Lower	6	244	11	278	33	273	43	148	106	178	152	189	20	174	61	203	109	217
Lateral Flow	10	89	13	104	19	115	8	70	13	76	17	81	9	80	13	89	18	97

GUADALUPE County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	4,823	0	4,225	1	3,494	1	2,823	0	2,079	1	1,610	0	3,715	0	3,030	1	2,461	1
Wells	0	3,191	0	3,043	0	2,990	0	3,191	0	3,043	0	2,990	0	3,191	0	3,043	0	2,990
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	5,673	0	5,640	0	5,607	0	5,673	0	5,640	0	5,607	0	5,673	0	5,640	0	5,607	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	4,240	2,200	6,232	1,473	7,450	1,211	3,238	2,824	3,939	2,334	4,342	2,125	3,682	2,505	4,991	1,879	5,736	1,583
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	244	6	278	11	273	33	148	43	178	106	189	152	174	20	203	61	217	109
Vertical Leakage Lower	37	2,505	71	3,739	87	4,299	147	1,214	87	1,477	79	1,612	38	1,822	47	2,588	58	2,969
Lateral Flow	326	7,440	384	8,564	484	8,862	369	5,126	302	5,265	290	5,238	319	6,063	239	6,579	291	6,720

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	3,882	648	3,394	368	3,129	189	1,614	673	1,192	438	918	273	2,705	659	2,182	395	1,838	219
Wells	0	1,550	0	1,550	0	1,550	0	1,548	0	1,548	0	1,548	0	1,549	0	1,549	0	1,549
Springs (Drain Package)	0	0	0	9	0	32	0	0	0	9	0	32	0	0	0	9	0	32
Recharge	4,402	0	4,435	0	4,468	0	4,402	0	4,435	0	4,468	0	4,402	0	4,435	0	4,468	0
Evapotranspiration	0	9	0	27	0	37	0	9	0	27	0	37	0	9	0	27	0	37
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,233	320	2,022	226	2,612	173	966	400	1,201	321	1,380	307	1,084	339	1,598	274	1,915	235
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2,505	37	3,739	71	4,299	87	1,214	147	1,477	87	1,612	79	1,822	38	2,588	47	2,969	58
Lateral Flow	1,997	11,455	2,750	14,088	2,941	15,380	1,078	6,498	1,311	7,187	1,413	7,516	1,529	8,947	2,031	10,532	2,283	11,342

KARNES County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

KARNES County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	454	0	290	0	237	0	240	0	151	0	117	0	345	0	216	0	177	0
Wells	0	281	0	281	0	281	0	281	0	281	0	281	0	281	0	281	0	281
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	611	0	905	0	1,180	0	224	0	412	0	547	0	414	0	653	0	857	0
Vertical Leakage Lower	256	2	252	1	226	2	146	2	167	2	167	2	200	2	211	1	201	2
Lateral Flow	2,922	3,959	3,086	4,251	3,174	4,534	2,552	2,878	2,417	2,865	2,398	2,946	2,470	3,146	2,564	3,362	2,601	3,553

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	40	0	25	0	20	0	21	0	13	0	10	0	30	0	18	0	15	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2	256	1	252	2	226	2	146	2	167	2	167	2	200	1	211	2	201
Vertical Leakage Lower	211	0	220	0	199	1	124	0	153	0	155	0	167	0	189	0	181	0
Lateral Flow	17	14	19	13	20	13	6	9	8	8	9	9	11	11	13	11	14	11

KARNES County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	394	0	447	0	366	0	130	0	173	0	148	0	245	0	296	0	249	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	211	0	220	1	199	0	124	0	153	0	155	0	167	0	189	0	181
Vertical Leakage Lower	17	2	22	2	39	2	26	0	33	0	44	0	20	1	23	0	35	0
Lateral Flow	56	254	114	361	160	365	77	109	35	87	41	78	61	158	59	189	85	188

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,073	0	923	0	782	0	347	0	322	0	285	0	707	0	614	0	526	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2	17	2	22	2	39	0	26	0	33	0	44	1	20	0	23	0	35
Lateral Flow	814	1,873	2,021	2,924	2,117	2,863	922	1,243	744	1,033	827	1,067	684	1,372	1,182	1,774	1,325	1,817

LA SALLE County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	19	0	10	0	8	0	3	0	3	0	3	0	12	0	7	0	6	0
Wells	0	563	0	563	0	563	0	410	0	410	0	410	0	554	0	554	0	554
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	628	183	792	139	907	118	457	241	490	227	527	212	574	198	674	166	750	146
Vertical Leakage Lower	149	321	99	471	71	576	136	243	122	273	106	309	162	275	126	365	104	437
Lateral Flow	818	546	841	569	855	584	792	494	797	502	804	509	828	548	842	563	852	574

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	235	0	129	0	100	0	41	0	44	0	42	0	144	0	88	0	72	0
Wells	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	327	365	489	196	637	121	246	371	277	322	315	269	279	407	371	287	452	207
Vertical Leakage Lower	0	855	0	1,106	0	1,305	0	619	0	713	0	814	0	737	0	914	0	1,067
Lateral Flow	985	326	1,060	374	1,104	414	1,055	351	1,087	373	1,118	392	1,050	329	1,103	360	1,137	386

LA SALLE County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,048	0	743	0	623	0	88	90	243	4	246	0	578	1	514	0	450	0
Wells	0	7,119	0	7,119	0	7,119	0	4,267	0	4,267	0	4,267	0	6,404	0	6,404	0	6,404
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	10,879	0	12,413	0	13,662	0	8,077	3	8,451	13	8,996	13	9,686	0	10,689	0	11,615	0
Vertical Leakage Lower	2,312	1,112	2,407	1,141	2,458	1,179	1,275	1,121	1,726	961	1,918	927	1,857	1,228	2,118	1,181	2,227	1,187
Lateral Flow	5,839	11,847	6,068	13,372	6,343	14,786	4,925	8,885	4,898	10,074	5,006	10,959	5,660	10,147	5,778	11,514	5,913	12,614

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,397	0	1,005	0	849	0	89	211	278	14	304	1	725	3	670	0	599	0
Wells	0	3,273	0	3,273	0	3,273	0	1,966	0	1,966	0	1,966	0	2,947	0	2,947	0	2,947
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,112	2,312	1,141	2,407	1,179	2,458	1,121	1,275	961	1,726	927	1,918	1,228	1,857	1,181	2,118	1,187	2,227
Vertical Leakage Lower	1,066	16	1,395	0	1,519	0	483	69	708	26	868	4	825	31	1,103	1	1,248	0
Lateral Flow	3,418	1,391	3,779	1,639	4,024	1,840	2,878	1,049	2,995	1,210	3,131	1,341	3,251	1,191	3,501	1,390	3,692	1,552

LA SALLE County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	446	123	759	3	882	0	42	441	92	183	164	62	197	191	409	34	528	0
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	16	1,066	0	1,395	0	1,519	69	483	26	708	4	868	31	825	1	1,103	0	1,248
Vertical Leakage Lower	626	7	659	0	705	0	588	9	617	1	668	0	622	8	656	0	702	0
Lateral Flow	406	298	428	447	474	542	408	174	386	229	385	291	405	230	407	336	430	412

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	665	342	835	21	1,022	0	71	729	60	383	141	156	320	454	414	104	565	4
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	7	626	0	659	0	705	9	588	1	617	0	668	8	622	0	656	0	702
Lateral Flow	2,291	1,996	2,612	2,768	2,915	3,233	2,172	935	2,145	1,206	2,207	1,525	2,222	1,474	2,382	2,036	2,575	2,434

MAVERICK County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MAVERICK County

Carrizo Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	233	826	224	689	74	672	170	857	124	780	0	864	208	837	181	711	32	718
Wells	0	449	0	449	0	144	0	449	0	449	0	144	0	449	0	449	0	144
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	2,069	0	2,069	0	2,031	0	2,069	0	2,069	0	2,031	0	2,069	0	2,069	0	2,031	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,059	0	746	16	513	66	1,059	0	743	16	502	69	1,059	0	745	16	509	67
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	50	0	48	0	47	0	50	0	48	0	47	0	50	0	48	0	47	0
Vertical Leakage Lower	10	1,491	13	1,169	18	939	20	1,456	34	1,100	44	808	12	1,478	19	1,147	24	898
Lateral Flow	90	744	53	831	16	878	94	699	63	736	18	755	91	725	56	794	17	832

Upper Wilcox Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	4	427	2	227	1	133	4	430	2	233	0	102	4	428	2	229	1	124
Wells	0	135	0	135	0	135	0	137	0	137	0	137	0	137	0	137	0	137
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	47	0	47	0	85	0	47	0	47	0	85	0	47	0	47	0	85	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	92	21	70	27	58	32	92	21	69	28	56	32	92	21	70	27	57	32
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,491	10	1,169	13	939	18	1,456	20	1,100	34	808	44	1,478	12	1,147	19	898	24
Vertical Leakage Lower	30	948	46	831	32	700	36	907	59	755	51	603	32	932	48	806	37	669
Lateral Flow	24	149	32	133	25	122	25	146	33	125	26	110	24	148	32	130	26	117

MAVERICK County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	5	516	1	315	2	99	5	526	1	321	1	99	5	520	1	321	1	106
Wells	0	260	0	260	0	260	0	260	0	260	0	260	0	260	0	260	0	260
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	578	0	578	0	578	0	578	0	578	0	578	0	578	0	578	0	578	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	998	5	923	7	905	16	997	5	917	7	894	16	998	5	922	7	902	16
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	948	30	831	46	700	32	907	36	755	59	603	51	932	32	806	48	669	37
Vertical Leakage Lower	41	1,407	57	1,387	26	1,412	45	1,364	60	1,304	35	1,305	42	1,392	59	1,359	28	1,374
Lateral Flow	465	817	477	853	473	867	469	810	482	842	480	859	466	814	479	849	475	861

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	476	543	323	304	226	231	471	550	307	317	201	249	474	546	318	308	218	236
Wells	0	1,156	0	1,137	0	1,008	0	1,156	0	1,137	0	1,008	0	1,156	0	1,137	0	1,008
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,264	0	1,248	0	1,143	0	1,264	0	1,248	0	1,143	0	1,264	0	1,248	0	1,143	0
Evapotranspiration	0	106	0	121	0	128	0	106	0	121	0	128	0	106	0	121	0	128
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	309	34	326	36	337	38	309	34	324	36	332	38	309	34	325	36	335	38
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,407	41	1,387	57	1,412	26	1,364	45	1,304	60	1,305	35	1,392	42	1,359	59	1,374	28
Vertical Leakage Lower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lateral Flow	164	1,739	159	1,788	163	1,848	164	1,679	160	1,672	163	1,686	164	1,718	159	1,748	163	1,794

MCMULLEN County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	41	0	24	0	18	0	10	0	10	0	9	0	24	0	17	0	13	0
Wells	0	27	0	27	0	27	0	5	0	5	0	5	0	14	0	14	0	14
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	303	148	419	70	513	34	240	196	268	166	299	139	268	176	336	120	391	82
Vertical Leakage Lower	48	193	4	340	0	469	106	132	70	160	41	192	82	158	27	228	7	305
Lateral Flow	254	279	283	293	307	308	267	288	278	295	288	300	258	285	277	294	293	304

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	657	0	416	0	319	0	181	0	164	0	147	0	397	0	287	0	232	0
Wells	0	225	0	225	0	225	0	50	0	50	0	50	0	105	0	105	0	105
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	271	430	603	109	968	12	161	650	215	488	281	346	205	552	354	275	536	123
Vertical Leakage Lower	1	834	0	1,336	0	1,745	87	376	30	543	5	735	21	562	0	913	0	1,228
Lateral Flow	773	214	896	244	993	297	847	199	899	227	946	248	800	204	881	229	950	263

MCMULLEN County

Carrizo Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	859	0	599	0	488	0	210	0	265	0	230	0	516	0	430	0	359	0
Wells	0	3,046	0	3,046	0	3,046	0	756	0	756	0	756	0	1,482	0	1,482	0	1,482
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,939	0	2,823	0	3,489	0	651	293	828	188	1,098	100	1,116	66	1,665	0	2,189	0
Vertical Leakage Lower	1,712	14	1,580	20	1,498	27	562	38	778	27	815	29	1,034	26	1,112	27	1,096	32
Lateral Flow	1,521	2,972	1,702	3,639	2,043	4,445	1,387	1,722	1,184	2,084	1,258	2,516	1,438	2,529	1,312	3,010	1,491	3,621

Upper Wilcox Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,512	0	1,075	0	871	0	321	0	438	0	393	0	868	0	751	0	631	0
Wells	0	226	0	226	0	226	0	42	0	42	0	42	0	92	0	92	0	92
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	14	1,712	20	1,580	27	1,498	38	562	27	778	29	815	26	1,034	27	1,112	32	1,096
Vertical Leakage Lower	328	0	612	0	749	0	130	0	254	0	349	0	217	0	424	0	544	0
Lateral Flow	854	770	993	894	1,109	1,033	614	497	651	551	723	636	702	688	785	783	879	898

MCMULLEN County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	303	0	612	0	766	0	35	81	103	12	194	0	111	25	322	0	461	0
Wells	0	223	0	223	0	223	0	42	0	42	0	42	0	91	0	91	0	91
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	328	0	612	0	749	0	130	0	254	0	349	0	217	0	424	0	544
Vertical Leakage Lower	134	0	189	0	232	0	120	0	150	0	175	0	124	0	161	0	192	0
Lateral Flow	153	39	114	79	121	146	139	41	99	43	80	59	140	41	97	65	89	108

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	207	351	700	21	1,051	0	51	547	153	204	225	66	118	468	393	97	596	1
Wells	0	223	0	223	0	223	0	42	0	42	0	42	0	91	0	91	0	91
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	134	0	189	0	232	0	120	0	150	0	175	0	124	0	161	0	192
Lateral Flow	952	450	551	819	578	1,174	994	337	529	288	441	382	956	391	510	554	481	793

MEDINA County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MEDINA County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	11,749	718	8,305	438	5,912	293	9,256	738	6,281	447	4,421	295	10,573	729	7,402	442	5,293	293
Wells	0	24	0	24	0	24	0	19	0	19	0	19	0	22	0	22	0	22
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	8,790	0	8,790	0	8,790	0	8,790	0	8,790	0	8,790	0	8,790	0	8,790	0	8,790	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,536	2	1,474	48	1,469	51	1,537	2	1,460	53	1,460	59	1,536	2	1,466	51	1,465	55
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	15	0	16	0	17	0	15	0	16	0	17	0	15	0	16	0	17	0
Vertical Leakage Lower	674	1,144	708	1,223	708	1,378	813	1,055	886	1,088	901	1,183	741	1,099	792	1,152	791	1,273
Lateral Flow	777	21,652	882	18,441	902	16,051	769	19,365	854	16,681	883	14,915	770	20,574	871	17,672	897	15,611

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	74	185	105	62	91	53	63	185	85	63	87	54	70	185	97	62	91	53
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,144	674	1,223	708	1,378	708	1,055	813	1,088	886	1,183	901	1,099	741	1,152	792	1,273	791
Vertical Leakage Lower	491	520	519	688	519	799	625	430	677	548	693	631	555	474	595	617	601	716
Lateral Flow	23	352	30	419	35	464	24	339	28	382	32	410	23	345	29	401	34	438

MEDINA County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	3,440	52	3,909	40	4,037	79	2,399	58	2,636	25	2,752	24	2,937	53	3,328	38	3,479	35
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	2,638	0	2,638	0	2,638	0	2,638	0	2,638	0	2,638	0	2,638	0	2,638	0	2,638	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	858	49	911	41	923	40	829	57	904	41	924	40	846	53	909	40	923	40
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	520	491	688	519	799	519	430	625	548	677	631	693	474	555	617	595	716	601
Vertical Leakage Lower	4	5,037	9	5,472	19	5,476	64	3,902	77	4,212	95	4,320	24	4,481	33	4,886	47	4,986
Lateral Flow	319	2,150	381	2,464	409	2,712	287	2,004	323	2,170	335	2,296	304	2,081	361	2,327	384	2,526

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	5,227	135	4,773	111	4,578	161	2,984	419	2,535	319	2,305	250	4,076	259	3,607	205	3,350	190
Wells	0	6,292	0	6,135	0	5,985	0	2,627	0	2,540	0	2,507	0	4,459	0	4,376	0	4,295
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,925	0	1,844	0	1,844	0	1,982	0	1,925	0	1,925	0	1,954	0	1,925	0	1,925	0
Evapotranspiration	0	102	0	91	0	89	0	183	0	224	0	268	0	137	0	145	0	160
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	136	91	131	87	133	87	117	170	114	181	113	190	125	130	122	134	120	136
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	5,037	4	5,472	9	5,476	19	3,902	64	4,212	77	4,320	95	4,481	24	4,886	33	4,986	47
Lateral Flow	951	6,652	947	6,733	971	6,660	718	6,240	727	6,171	739	6,092	834	6,460	837	6,485	867	6,419

UVALDE County

Sparta Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

UVALDE County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	163	7	0	5	0	0	111	55	12	67	1	7	122	109	0	50	6	20
Wells	0	707	0	450	0	450	0	821	0	821	0	821	0	801	0	497	0	497
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	584	0	418	0	418	0	1,370	0	1,370	0	1,370	0	853	0	584	0	584	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	542	0	440	0	440	0	688	0	657	0	648	0	646	0	535	0	540	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Lower	0	11	0	11	0	11	0	358	0	16	0	16	0	122	0	12	0	12
Lateral Flow	0	564	0	393	0	398	4	940	4	1,140	4	1,180	0	590	0	561	0	601

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	24	0	18	0	13	0	1,798	0	11	0	8	0	591	0	15	0	11	0
Wells	0	5	0	5	0	5	0	2,100	0	0	0	0	0	675	0	3	0	3
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	11	0	11	0	11	0	358	0	16	0	16	0	122	0	12	0	12	0
Vertical Leakage Lower	0	5	0	4	0	3	0	57	0	5	0	4	0	11	0	4	0	4
Lateral Flow	0	24	0	19	0	15	1	49	0	22	0	20	0	27	0	20	0	17

UVALDE County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	868	170	752	27	753	10	1,275	35	1,175	7	1,023	5	1,020	124	778	19	763	5
Wells	0	4	0	4	0	4	0	0	0	0	0	0	0	2	0	2	0	2
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	1,921	0	2,086	0	2,086	0	1,086	0	1,134	0	1,134	0	1,651	0	1,921	0	1,921	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	302	15	302	15	302	15	302	15	302	15	302	15	302	15	302	15	302	15
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	5	0	4	0	3	0	57	0	5	0	4	0	11	0	4	0	4	0
Vertical Leakage Lower	6	1,717	0	1,835	0	1,843	12	1,625	1	1,581	0	1,476	8	1,685	0	1,741	0	1,730
Lateral Flow	47	1,243	39	1,302	36	1,308	54	1,110	53	1,066	51	1,017	49	1,215	39	1,267	35	1,272

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	2,395	79	2,199	61	2,114	96	2,050	77	1,716	43	1,626	49	2,287	79	2,055	52	1,973	72
Wells	0	21	0	21	0	21	0	15	0	15	0	15	0	20	0	20	0	20
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	415	0	415	0	415	0	415	0	415	0	415	0	415	0	415	0	415	0
Evapotranspiration	0	0	0	3	0	5	0	0	0	2	0	5	0	0	0	3	0	5
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	140	0	140	0	129	0	139	0	140	0	132	0	140	0	141	0	129	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,717	6	1,835	0	1,843	0	1,625	12	1,581	1	1,476	0	1,685	8	1,741	0	1,730	0
Lateral Flow	1,168	5,729	1,153	5,659	1,191	5,570	1,159	5,284	1,190	4,982	1,251	4,832	1,169	5,589	1,166	5,443	1,174	5,324

WEBB County

Sparta Aquifer

Sparta Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer

Queen City Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WEBB County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	132	172	87	133	65	118	79	223	21	177	9	162	104	188	54	146	36	131
Wells	0	883	0	883	0	883	0	882	0	882	0	882	0	882	0	882	0	882
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	529	0	529	0	529	0	529	0	529	0	529	0	529	0	529	0	529	0
Evapotranspiration	0	124	0	124	0	124	0	124	0	124	0	124	0	124	0	124	0	124
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	67	0	62	0	58	0	67	0	61	0	55	0	67	0	62	0	57	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,093	0	4,463	0	4,833	1	3,932	3	4,020	9	4,185	9	4,026	0	4,278	0	4,561	1
Vertical Leakage Lower	373	2,686	381	2,873	371	3,086	332	2,657	354	2,720	358	2,822	356	2,673	370	2,812	365	2,981
Lateral Flow	337	1,666	364	1,874	379	2,025	330	1,380	343	1,418	351	1,488	331	1,547	348	1,675	357	1,786

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	249	260	225	134	190	77	119	419	42	264	22	185	182	312	132	173	102	108
Wells	0	14	0	14	0	14	0	13	0	13	0	13	0	14	0	14	0	14
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	82	0	82	0	82	0	82	0	82	0	82	0	82	0	82	0	82	0
Evapotranspiration	0	69	0	69	0	69	0	69	0	69	0	69	0	69	0	69	0	69
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	16	142	15	171	15	190	16	143	15	174	15	197	16	142	15	172	15	193
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2,686	373	2,873	381	3,086	371	2,657	332	2,720	354	2,822	358	2,673	356	2,812	370	2,981	365
Vertical Leakage Lower	25	485	44	486	65	507	19	515	17	552	15	569	22	496	29	510	38	529
Lateral Flow	907	2,622	925	2,911	926	3,137	929	2,331	931	2,380	921	2,487	910	2,497	915	2,678	907	2,848

WEBB County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	261	161	176	58	154	11	252	193	136	152	66	117	257	173	155	91	101	37
Wells	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	82	0	82	0	82	0	82	0	82	0	82	0	82	0	82	0	82	0
Evapotranspiration	0	150	0	150	0	150	0	150	0	150	0	150	0	150	0	150	0	150
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,033	2,803	3,013	2,808	3,010	2,809	3,032	2,803	3,006	2,811	2,993	2,815	3,033	2,803	3,011	2,809	3,005	2,811
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	485	25	486	44	507	65	515	19	552	17	569	15	496	22	510	29	529	38
Vertical Leakage Lower	12	626	11	618	15	631	11	629	9	606	11	587	11	627	10	615	13	616
Lateral Flow	470	573	481	565	479	576	474	566	492	537	496	527	472	570	484	553	483	555

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	244	218	89	73	142	0	240	253	69	279	18	217	242	231	80	148	41	32
Wells	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	15	0	15	0	15	0	15	0	15	0	15	0	15	0	15	0	15	0
Evapotranspiration	0	42	0	42	0	42	0	42	0	42	0	42	0	42	0	42	0	42
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	141	0	135	0	132	0	141	0	137	0	136	0	141	0	136	0	133
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	626	12	618	11	631	15	629	11	606	9	587	11	627	11	615	10	616	13
Lateral Flow	1,870	2,342	1,824	2,284	1,790	2,389	1,884	2,320	1,882	2,103	1,839	2,053	1,875	2,333	1,837	2,209	1,794	2,245

WILSON County

Sparta Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	2,592	36	1,973	0	1,486	0	2,241	89	1,577	23	1,127	2	2,410	60	1,772	5	1,315	0
Wells	0	625	0	625	0	625	0	363	0	363	0	363	0	494	0	494	0	494
Springs (Drain Package)	0	571	0	303	0	145	0	579	0	322	0	180	0	575	0	312	0	163
Recharge	2,250	0	2,250	0	2,250	0	2,250	0	2,250	0	2,250	0	2,250	0	2,250	0	2,250	0
Evapotranspiration	0	136	0	92	0	58	0	137	0	98	0	82	0	137	0	98	0	82
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	80	566	119	468	146	367	50	591	67	508	75	428	63	577	91	490	108	398
General Head Boundary	596	1,325	814	1,025	1,030	831	469	1,585	551	1,380	637	1,236	525	1,454	664	1,196	815	1,030
Vertical Leakage Lower	252	1,130	89	1,411	23	1,651	491	814	377	841	302	868	367	959	210	1,089	125	1,206
Lateral Flow	138	1,518	148	1,470	155	1,414	135	1,479	143	1,431	149	1,382	136	1,497	145	1,448	152	1,393

Queen City Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	4,631	649	5,062	169	5,626	76	1,542	1,981	1,460	1,110	1,518	615	2,923	1,230	3,062	498	3,318	212
Wells	0	4,632	0	4,632	0	4,632	0	94	0	94	0	94	0	2,329	0	2,329	0	2,329
Springs (Drain Package)	0	13	0	0	0	0	0	15	0	0	0	0	0	14	0	0	0	0
Recharge	7,443	0	7,443	0	7,443	0	7,443	0	7,443	0	7,443	0	7,443	0	7,443	0	7,443	0
Evapotranspiration	0	30	0	0	0	0	0	30	0	1	0	0	0	30	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,479	3,569	1,506	2,749	1,551	2,134	1,397	4,046	1,467	3,635	1,468	3,336	1,457	3,809	1,476	3,188	1,499	2,730
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2,326	200	2,762	56	3,037	16	1,744	479	1,767	349	1,795	265	2,018	329	2,212	169	2,380	91
Vertical Leakage Lower	14	3,670	0	5,615	0	7,048	39	2,797	13	3,977	2	4,806	24	3,235	1	4,788	0	5,919
Lateral Flow	105	3,236	96	3,647	87	3,837	91	2,813	86	3,071	82	3,192	96	2,984	90	3,313	82	3,440

WILSON County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	24,947	144	22,914	105	20,838	49	12,442	767	9,821	443	8,925	263	18,340	426	16,145	239	14,710	134
Wells	0	45,627	0	45,627	0	45,627	0	25,684	0	25,684	0	25,684	0	35,665	0	35,665	0	35,665
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	8,770	0	8,770	0	8,770	0	8,770	0	8,770	0	8,770	0	8,770	0	8,770	0	8,770	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	10,000	52	11,787	49	12,595	45	7,969	218	10,425	87	11,279	89	9,264	126	11,296	68	12,043	66
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	7,041	0	9,713	0	11,624	0	4,996	0	6,694	0	7,745	0	6,027	0	8,217	0	9,684	0
Vertical Leakage Lower	2,007	502	1,966	457	2,129	531	1,572	425	1,703	399	1,826	432	1,801	430	1,867	422	2,019	478
Lateral Flow	10,449	16,889	9,726	18,636	9,697	19,402	6,662	15,317	6,084	16,884	5,900	17,978	8,547	16,102	7,855	17,754	7,751	18,634

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	131	172	93	7	79	2	68	140	47	21	38	0	99	123	69	14	59	10
Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	502	2,007	457	1,966	531	2,129	425	1,572	399	1,703	432	1,826	430	1,801	422	1,867	478	2,019
Vertical Leakage Lower	1,581	99	1,467	126	1,559	137	1,248	81	1,331	111	1,419	128	1,426	88	1,432	112	1,530	120
Lateral Flow	83	20	108	26	130	30	68	17	80	22	90	25	76	19	93	24	110	27

WILSON County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	3,129	0	2,611	0	2,334	0	1,416	13	1,238	0	1,066	0	2,180	0	1,876	0	1,667	0
Wells	0	32	0	32	0	32	0	32	0	32	0	32	0	32	0	32	0	32
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	938	0	938	0	938	0	938	0	938	0	938	0	938	0	938	0	938	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	570	1,988	669	1,187	893	631	571	2,082	568	1,523	682	1,193	570	2,035	606	1,346	798	920
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	99	1,581	126	1,467	137	1,559	81	1,248	111	1,331	128	1,419	88	1,426	112	1,432	120	1,530
Vertical Leakage Lower	27	1,571	169	2,193	254	2,593	99	914	160	1,224	218	1,411	44	1,239	127	1,700	190	2,001
Lateral Flow	2,543	2,134	2,821	2,456	2,877	2,618	2,131	946	2,075	981	2,025	1,003	2,304	1,393	2,392	1,541	2,387	1,618

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	4,854	0	2,864	0	2,323	0	2,318	0	1,219	0	991	0	3,566	0	2,018	0	1,662	0
Wells	0	11,233	0	11,233	0	11,233	0	6,549	0	6,549	0	6,549	0	8,908	0	8,908	0	8,908
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	69	0	69	0	69	0	69	0	69	0	69	0	69	0	69	0	69	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	82	0	207	0	207	0	56	0	179	0	207	0	69	0	207	0	207	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,571	27	2,193	169	2,593	254	914	99	1,224	160	1,411	218	1,239	44	1,700	127	2,001	190
Lateral Flow	11,996	7,311	14,021	7,953	14,400	8,104	8,157	4,867	8,785	4,768	8,911	4,821	9,992	5,983	11,255	6,214	11,497	6,337

ZAVALA County

Sparta Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Queen City Aquifer	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ZAVALA County

Carrizo Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	23,515	340	17,761	309	13,490	254	11,525	1,208	8,249	904	6,380	905	20,236	471	15,087	443	11,204	377
Wells	0	42,673	0	41,370	0	40,317	0	25,533	0	25,195	0	24,962	0	38,355	0	37,477	0	36,315
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	6,642	0	6,477	0	6,441	0	6,642	0	6,642	0	6,569	0	6,642	0	6,552	0	6,477	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	2,677	0	2,654	0	2,654	0	2,649	0	2,642	0	2,642	0	2,661	0	2,648	0	2,649	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	14,187	275	17,057	49	19,386	0	9,951	1,041	11,077	684	12,299	360	12,971	453	15,298	162	17,221	19
Vertical Leakage Lower	5,652	8,419	6,196	8,040	6,504	7,992	6,455	6,370	6,961	5,943	7,118	5,902	6,102	8,166	6,702	7,787	6,990	7,742
Lateral Flow	8,434	9,400	8,462	8,840	8,620	8,533	5,799	8,869	6,052	8,897	6,318	9,197	7,690	8,859	7,889	8,306	8,030	8,119

Upper Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	565	121	588	70	479	73	212	309	285	98	231	45	419	155	484	65	378	57
Wells	0	10,569	0	10,569	0	10,441	0	6,317	0	6,317	0	6,317	0	9,495	0	9,495	0	9,368
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	140	0	304	0	304	0	140	0	140	0	213	0	140	0	230	0	268	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	8,419	5,652	8,040	6,196	7,992	6,504	6,370	6,455	5,943	6,961	5,902	7,118	8,166	6,102	7,787	6,702	7,742	6,990
Vertical Leakage Lower	8,224	1,392	8,793	1,365	9,052	1,365	7,473	1,237	8,072	1,193	8,169	1,203	8,098	1,375	8,728	1,342	8,952	1,366
Lateral Flow	779	392	875	400	949	392	538	414	564	435	603	434	696	391	773	398	828	387

ZAVALA County

Middle Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	1,296	509	1,470	323	1,617	272	725	943	901	575	1,002	492	1,096	589	1,303	379	1,398	319
Wells	0	6,156	0	6,156	0	6,156	0	3,694	0	3,694	0	3,694	0	5,534	0	5,534	0	5,534
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	954	0	954	0	991	0	954	0	954	0	954	0	954	0	954	0	991	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,417	3	1,418	3	1,418	3	1,416	4	1,417	4	1,417	4	1,417	4	1,418	4	1,418	4
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,392	8,224	1,365	8,793	1,365	9,052	1,237	7,473	1,193	8,072	1,203	8,169	1,375	8,098	1,342	8,728	1,366	8,952
Vertical Leakage Lower	9,203	1,898	9,535	2,027	9,653	2,117	7,574	1,805	7,833	1,876	7,826	1,915	8,814	1,880	9,158	1,998	9,236	2,071
Lateral Flow	2,860	332	2,929	369	2,945	388	2,357	345	2,279	356	2,229	358	2,779	331	2,821	353	2,831	361

Lower Wilcox Aquifer

	GAM Run 08_41 High pumping scenario						GAM Run 08_42 Low pumping scenario						GAM Run 08_43 Medium pumping scenario					
	10-Year		30-Year		50-Year		10-Year		30-Year		50-Year		10-Year		30-Year		50-Year	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Storage	665	629	719	499	800	437	184	1,193	254	718	315	626	420	689	570	550	613	485
Wells	0	518	0	518	0	518	0	300	0	300	0	300	0	454	0	454	0	454
Springs (Drain Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recharge	340	0	340	0	340	0	340	0	340	0	340	0	340	0	340	0	340	0
Evapotranspiration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	726	2	725	5	726	8	726	2	722	6	723	8	726	2	724	5	726	8
General Head Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,898	9,203	2,027	9,535	2,117	9,653	1,805	7,574	1,876	7,833	1,915	7,826	1,880	8,814	1,998	9,158	2,071	9,236
Lateral Flow	8,221	1,498	8,418	1,672	8,476	1,843	7,393	1,380	7,125	1,461	7,009	1,544	7,959	1,368	8,007	1,473	8,014	1,580

Table 2. Annual water budgets for each county in Groundwater Management Area 13 at the end of the 60-year predictive model runs in the groundwater availability model for the southern part of the Queen City, Sparta, and Carrizo-Wilcox aquifers. Values are reported in acre-feet per year.

ATASCOSA County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	312	141	666	118	257	162	436	127
Wells	0	514	0	895	0	513	0	699
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	2,306	0	2,306	0	2,306	0	2,306	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	219	489	233	409	219	495	225	455
General Head Boundary	4,026	3,373	5,927	1,758	3,643	3,588	4,591	2,643
Vertical Leakage Lower	1,801	4,593	373	6,683	1,886	3,990	1,112	5,137
Lateral Flow	696	249	683	325	685	248	666	276

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	740	543	2,878	151	436	802	1,407	351
Wells	0	959	0	5,288	0	989	0	2,708
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	5,166	0	5,166	0	5,166	0	5,166	0
Evapotranspiration	0	44	0	0	0	50	0	19
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,275	2,192	3,596	1,493	3,257	2,290	3,391	1,884
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,813	1,788	6,977	317	4,171	1,874	5,398	1,076
Vertical Leakage Lower	5	9,816	0	12,539	13	8,271	0	10,468
Lateral Flow	2,126	782	2,172	1,001	2,013	781	2,021	878

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	12,229	227	18,603	185	10,428	257	14,502	237
Wells	0	52,389	0	59,840	0	39,977	0	49,971
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	8,119	0	8,119	0	8,119	0	8,119	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,447	10	1,478	0	1,411	18	1,438	12
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	12,312	0	16,019	0	10,599	0	13,370	0
Vertical Leakage Lower	5,070	517	4,233	528	3,144	459	3,691	499
Lateral Flow	28,640	14,673	23,350	11,249	16,801	9,792	20,220	10,620

ATASCOSA County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	126	0	239	0	123	0	181	0
Wells	0	36	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	517	5,070	528	4,233	459	3,144	499	3,691
Vertical Leakage Lower	4,443	296	3,278	310	2,580	267	2,937	292
Lateral Flow	510	195	587	89	325	75	453	87

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	2,079	58	3,102	1	1,701	0	2,412	0
Wells	0	598	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	622	0	622	0	622	0	622	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	642	0	642	0	642	0	642	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	296	4,443	310	3,278	267	2,580	292	2,937
Vertical Leakage Lower	2,830	1,480	660	2,194	771	1,439	706	1,804
Lateral Flow	891	781	1,105	966	872	856	986	920

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	696	0	2,797	0	1,254	0	2,029	0
Wells	0	1,527	0	5,556	0	3,333	0	4,445
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,480	2,830	2,194	660	1,439	771	1,804	706
Lateral Flow	3,970	1,788	7,792	6,568	5,437	4,026	6,606	5,289

BEXAR County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	3,249	153	5,866	157	3,480	152	4,685	174
Wells	0	2,793	0	5,956	0	6,123	0	5,956
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	4,350	0	4,277	0	4,350	0	4,277	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,114	0	1,336	0	1,187	0	1,241	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	127	0	135	0	128	0	131	0
Vertical Leakage Lower	528	196	408	268	351	224	394	239
Lateral Flow	1,792	8,018	1,819	7,458	1,823	4,820	1,769	6,128

BEXAR County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	13	18	7	14	14	17	7	15
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	361	0	434	0	361	0	434	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	196	528	268	408	224	351	239	394
Vertical Leakage Lower	225	171	55	233	52	204	53	231
Lateral Flow	12	90	15	124	12	92	14	107

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	1,485	5	3,424	3	2,276	2	2,893	2
Wells	0	5,511	0	5,427	0	5,475	0	5,427
Springs (Drain Package)	0	128	0	55	0	88	0	69
Recharge	2,840	0	2,816	0	2,839	0	2,816	0
Evapotranspiration	0	13	0	10	0	12	0	11
Reservoirs (River Package)	1,603	0	1,818	0	1,718	0	1,776	0
Rivers and Streams (Stream Package)	2,455	765	4,532	0	3,513	56	4,052	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	171	225	233	55	204	52	231	53
Vertical Leakage Lower	361	1,610	0	6,335	0	4,351	0	5,476
Lateral Flow	354	1,011	639	1,576	624	1,137	630	1,359

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	744	34	6,149	18	2,993	12	4,361	13
Wells	0	5,475	0	15,664	0	11,589	0	13,626
Springs (Drain Package)	0	48	0	48	0	48	0	48
Recharge	4,938	0	4,930	0	4,906	0	4,930	0
Evapotranspiration	0	160	0	159	0	159	0	159
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,252	440	4,566	297	4,122	368	4,389	330
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,610	361	6,335	0	4,351	0	5,476	0
Lateral Flow	696	4,721	6,836	12,631	4,446	8,641	5,636	10,615

CALDWELL County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	1	42	290	10	40	24	120	15
Wells	0	126	0	47	0	9	0	28
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,084	0	1,084	0	1,084	0	1,084	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	26	343	238	53	45	219	108	95
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	0	0	0	0	0	0	0
Vertical Leakage Lower	0	71	0	191	0	139	0	165
Lateral Flow	163	691	114	1,424	136	913	115	1,124

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	28	19	2,762	6	1,083	4	1,651	3
Wells	0	269	0	10,202	0	6,199	0	8,197
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	5,420	0	5,420	0	5,420	0	5,420	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	75	0	75	0	75	0	75	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,165	0	1,979	0	1,644	0	1,821	0
Vertical Leakage Lower	105	218	190	631	170	300	175	429
Lateral Flow	483	6,771	6,423	6,010	3,568	5,457	4,979	5,494

CALDWELL County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	0	19	18	23	1	12	9	19
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	218	105	631	190	300	170	429	175
Vertical Leakage Lower	0	69	0	416	2	97	0	221
Lateral Flow	1	25	12	33	4	27	6	29

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	37	18	6,978	0	2,396	0	4,550	4
Wells	0	1,163	0	16,799	0	9,119	0	13,286
Springs (Drain Package)	0	19	0	0	0	0	0	0
Recharge	4,395	0	3,694	0	4,045	0	3,938	0
Evapotranspiration	0	36	0	2	0	16	0	9
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	671	6,601	4,077	0	2,071	2,364	2,916	683
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	69	0	416	0	97	2	221	0
Vertical Leakage Lower	1,489	460	28	2,544	310	543	9	1,454
Lateral Flow	2,335	699	6,353	2,201	3,598	475	4,870	1,068

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	6	262	5,342	0	1,320	14	3,122	3
Wells	0	2,108	0	18,696	0	9,558	0	14,350
Springs (Drain Package)	0	208	0	15	0	64	0	32
Recharge	4,269	0	4,571	0	4,578	0	4,665	0
Evapotranspiration	0	296	0	30	0	157	0	81
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	562	1,763	3,379	0	2,050	99	3,121	28
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	460	1,489	2,544	28	543	310	1,454	9
Lateral Flow	1,289	459	7,832	4,898	3,195	1,484	5,442	3,299

DIMMIT County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	127	946	402	434	51	1,968	175	700
Wells	0	2,910	0	3,622	0	2,180	0	3,271
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	5,490	0	5,490	0	5,490	0	5,490	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	841	0	841	0	841	0	841	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	8,767	3	9,961	0	6,739	10	8,932	2
Vertical Leakage Lower	2,336	5,165	2,334	5,367	2,113	4,784	2,265	5,192
Lateral Flow	1,308	9,844	991	10,596	1,089	7,382	975	9,513

DIMMIT County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	514	245	771	208	227	310	592	231
Wells	0	1,301	0	1,630	0	977	0	1,465
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	345	0	345	0	345	0	345	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	94	118	100	114	90	120	97	117
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	5,165	2,336	5,367	2,334	4,784	2,113	5,192	2,265
Vertical Leakage Lower	1,240	1,520	1,166	1,579	974	1,411	1,111	1,533
Lateral Flow	1,270	3,106	1,285	3,168	1,095	2,583	1,206	2,932

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	1,185	3	1,428	1	912	33	1,260	1
Wells	0	189	0	232	0	141	0	210
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	724	0	724	0	724	0	724	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	271	2	271	2	271	2	271	2
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,520	1,240	1,579	1,166	1,411	974	1,533	1,111
Vertical Leakage Lower	1,008	1,994	874	2,096	706	1,869	869	2,025
Lateral Flow	692	1,974	710	2,089	659	1,664	692	1,999

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	799	9	1,038	9	566	34	869	9
Wells	0	50	0	61	0	37	0	50
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	268	0	268	0	268	0	268	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	193	0	193	0	193	0	193	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,994	1,008	2,096	874	1,869	706	2,025	869
Lateral Flow	2,296	4,482	2,547	5,199	2,014	4,133	2,334	4,761

FRIO County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	452	44	570	26	397	48	497	31
Wells	0	74	0	818	0	76	0	616
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,310	0	1,310	0	1,310	0	1,310	0
Evapotranspiration	0	74	0	74	0	74	0	74
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	101	63	105	57	101	66	104	60
General Head Boundary	5,000	494	6,004	344	4,615	577	5,381	418
Vertical Leakage Lower	0	4,891	0	5,492	2	4,417	0	4,930
Lateral Flow	10	1,234	18	1,198	12	1,179	14	1,178

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	181	5,086	1,274	2,507	37	7,193	299	4,427
Wells	0	66	0	4,267	0	87	0	2,139
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	9,497	0	9,497	0	9,497	0	9,497	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	4,650	11	4,655	5	4,651	11	4,653	8
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	5,244	0	5,939	0	4,726	0	5,320	0
Vertical Leakage Lower	0	12,564	0	12,802	0	9,986	0	11,510
Lateral Flow	1,024	2,870	1,127	2,912	1,024	2,659	1,073	2,759

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	17,841	16	21,616	22	11,830	9	16,994	14
Wells	0	99,783	0	99,980	0	79,969	0	89,979
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,801	0	1,801	0	1,801	0	1,801	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	471	0	473	0	471	0	472	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	26,991	0	27,864	0	21,208	0	24,936	0
Vertical Leakage Lower	9,565	4,270	9,087	269	8,660	227	8,951	244
Lateral Flow	52,094	4,695	46,053	6,624	41,064	4,827	43,014	5,931

FRIO County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	131	0	172	0	93	0	138	0
Wells	0	6,048	0	2	0	0	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,270	9,565	269	9,087	227	8,660	244	8,951
Vertical Leakage Lower	8,971	87	6,888	37	6,897	23	6,989	32
Lateral Flow	2,412	83	1,897	100	1,566	99	1,719	106

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	721	0	1,038	0	486	0	787	0
Wells	0	4,089	0	1	0	0	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	87	8,971	37	6,888	23	6,897	32	6,989
Vertical Leakage Lower	8,535	2	2,550	82	3,758	7	3,207	33
Lateral Flow	3,885	166	3,597	251	2,828	192	3,234	237

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	643	0	1,032	0	484	0	786	0
Wells	0	64	0	9,993	0	5,005	0	7,499
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2	8,535	82	2,550	7	3,758	33	3,207
Lateral Flow	8,579	626	11,870	441	8,780	508	10,380	493

GONZALES County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	6	270	970	1	145	59	421	6
Wells	0	537	0	3,716	0	1,133	0	1,994
Springs (Drain Package)	0	27	0	15	0	22	0	19
Recharge	2,999	0	2,999	0	2,999	0	2,999	0
Evapotranspiration	0	20	0	2	0	3	0	3
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	1,353	30	474	0	1,106	7	859
General Head Boundary	114	2,599	988	972	271	1,969	478	1,525
Vertical Leakage Lower	2,513	390	831	691	1,729	496	1,283	570
Lateral Flow	310	747	557	502	354	711	424	637

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	4	1,221	3,998	135	754	357	1,929	210
Wells	0	226	0	9,309	0	1,955	0	4,711
Springs (Drain Package)	0	68	0	0	0	23	0	11
Recharge	6,011	0	6,011	0	6,011	0	6,011	0
Evapotranspiration	0	176	0	4	0	33	0	6
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	366	4,310	1,478	911	546	2,916	657	1,766
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	633	2,471	1,681	658	959	1,615	1,247	1,131
Vertical Leakage Lower	1,001	267	4	3,876	28	2,211	12	3,115
Lateral Flow	1,991	1,268	3,673	1,953	2,492	1,680	2,913	1,818

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	173	0	6,709	0	2,380	0	4,024	0
Wells	0	2,493	0	50,727	0	30,718	0	40,720
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,517	0	1,517	0	1,517	0	1,517	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	6,153	2,919	0	714	235	2,735	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,014	1,986	8,975	0	5,082	107	6,990	11
Vertical Leakage Lower	349	86	205	2,642	665	199	271	869
Lateral Flow	10,853	3,188	35,640	2,596	23,190	2,288	28,527	2,464

GONZALES County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	4	23	76	0	27	0	45	0
Wells	0	1	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	86	349	2,642	205	199	665	869	271
Vertical Leakage Lower	281	11	30	2,672	529	157	109	847
Lateral Flow	34	20	149	19	79	11	110	14

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	6	87	2,148	0	667	0	1,313	0
Wells	0	78	0	20,074	0	4,064	0	10,086
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	182	0	182	0	182	0	182	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	652	1,401	1,683	0	1,079	886	1,354	449
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	11	281	2,672	30	157	529	847	109
Vertical Leakage Lower	667	0	1,055	287	384	5	409	142
Lateral Flow	1,805	1,475	15,092	2,442	4,439	1,423	8,575	1,894

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	0	144	1,626	0	465	0	997	0
Wells	0	3	0	29,996	0	9,996	0	19,990
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	667	287	1,055	5	384	142	409
Lateral Flow	1,790	977	30,502	1,364	10,441	531	20,189	930

GUADALUPE County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	0	34	0	17	0	27	0	22
Wells	0	0	0	10	0	0	0	5
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	78	0	78	0	78	0	78	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	0	0	0	0	0	0	0
Vertical Leakage Lower	0	34	0	36	0	39	0	38
Lateral Flow	1	11	1	17	1	14	1	16

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	668	763	6,410	545	5,206	524	7,052	479
Wells	0	1,225	0	10,901	0	12,100	0	13,153
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	7,210	0	7,113	0	7,210	0	7,210	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	83	233	644	0	359	0	506	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	571	22	644	0	663	0	652	0
Vertical Leakage Lower	113	364	330	594	387	473	360	530
Lateral Flow	17	6,056	4,770	7,872	4,617	5,346	4,748	6,366

GUADALUPE County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	0	0	3	0	2	0	3	0
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	97	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	364	113	594	330	473	387	530	360
Vertical Leakage Lower	27	215	31	293	171	194	131	223
Lateral Flow	1	63	21	123	18	83	20	101

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	432	0	3,221	1	1,450	0	2,257	1
Wells	0	3,041	0	2,990	0	2,990	0	2,990
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	5,640	0	5,607	0	5,607	0	5,607	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,007	3,159	7,932	1,116	4,499	2,067	5,991	1,478
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	215	27	293	31	194	171	223	131
Vertical Leakage Lower	689	488	90	4,512	79	1,669	63	3,102
Lateral Flow	535	3,805	535	9,029	299	5,230	328	6,767

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	120	457	3,047	132	851	217	1,751	162
Wells	0	1,547	0	1,550	0	1,548	0	1,549
Springs (Drain Package)	0	42	0	39	0	41	0	40
Recharge	4,435	0	4,468	0	4,468	0	4,468	0
Evapotranspiration	0	39	0	39	0	39	0	39
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	891	575	2,853	155	1,449	302	2,040	220
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	488	689	4,512	90	1,669	79	3,102	63
Lateral Flow	786	3,372	3,006	15,879	1,445	7,657	2,374	11,662

KARNES County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	50	0	217	0	108	0	163	0
Wells	0	281	0	281	0	281	0	281
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	96	51	1,298	0	608	0	947	0
Vertical Leakage Lower	121	12	214	2	166	2	195	2
Lateral Flow	6,216	6,139	3,216	4,662	2,378	2,978	2,608	3,631

KARNES County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	4	0	18	0	9	0	14	0
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	12	121	2	214	2	166	2	195
Vertical Leakage Lower	116	0	189	2	155	0	177	0
Lateral Flow	12	22	20	14	9	9	14	11

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	28	1	332	0	136	0	228	0
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	116	2	189	0	155	0	177
Vertical Leakage Lower	84	0	45	2	49	0	40	0
Lateral Flow	80	76	171	359	46	76	92	183

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	4	24	723	0	269	0	489	0
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	84	2	45	0	49	0	40
Lateral Flow	1,466	1,362	2,080	2,760	855	1,075	1,341	1,790

LA SALLE County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	4	0	7	0	3	0	5	0
Wells	0	547	0	563	0	410	0	554
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	750	141	957	110	544	205	784	138
Vertical Leakage Lower	93	464	62	624	100	327	94	469
Lateral Flow	890	586	861	591	808	512	857	579

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	59	0	91	0	40	0	67	0
Wells	0	1	0	1	0	0	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	485	173	716	104	334	247	490	176
Vertical Leakage Lower	0	1,209	0	1,394	0	859	0	1,135
Lateral Flow	1,248	408	1,123	433	1,132	401	1,151	398

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	376	0	577	0	239	0	422	0
Wells	0	5,689	0	7,119	0	4,267	0	6,404
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	12,569	0	14,226	0	9,253	11	12,041	0
Vertical Leakage Lower	2,528	1,120	2,464	1,202	1,976	922	2,255	1,197
Lateral Flow	7,285	15,949	6,517	15,462	5,073	11,341	5,993	13,110

LA SALLE County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	501	0	789	0	300	0	566	0
Wells	0	2,621	0	3,273	0	1,966	0	2,947
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,120	2,528	1,202	2,464	922	1,976	1,197	2,255
Vertical Leakage Lower	1,546	0	1,543	0	923	1	1,286	0
Lateral Flow	3,982	2,000	4,130	1,928	3,194	1,396	3,777	1,623

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	437	0	903	0	193	30	567	0
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	1,546	0	1,543	1	923	0	1,286
Vertical Leakage Lower	1,270	0	722	0	687	0	719	0
Lateral Flow	486	647	500	581	392	319	448	447

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	380	24	1,084	0	183	93	640	0
Wells	0	0	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	1,270	0	722	0	687	0	719
Lateral Flow	2,468	1,555	3,058	3,420	2,256	1,659	2,674	2,595

MAVERICK County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	0	708	64	607	0	780	22	648
Wells	0	143	0	144	0	144	0	144
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	2,031	0	2,031	0	2,031	0	2,031	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	444	86	456	82	440	87	450	84
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	46	0	46	0	46	0	46	0
Vertical Leakage Lower	33	836	19	904	46	804	26	869
Lateral Flow	18	800	16	896	18	764	17	848

MAVERICK County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	0	111	0	107	0	113	0	109
Wells	0	136	0	135	0	137	0	137
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	85	0	85	0	85	0	85	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	52	34	53	33	51	34	52	33
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	836	33	904	19	804	46	869	26
Vertical Leakage Lower	41	618	30	684	51	584	35	649
Lateral Flow	27	108	25	119	27	105	26	113

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	3	62	8	57	1	69	4	59
Wells	0	259	0	260	0	260	0	260
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	578	0	578	0	578	0	578	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	903	19	910	18	896	19	906	19
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	618	41	684	30	584	51	649	35
Vertical Leakage Lower	25	1,360	21	1,435	32	1,312	23	1,393
Lateral Flow	478	865	474	875	481	861	476	870

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	184	232	198	221	168	238	189	227
Wells	0	970	0	970	0	970	0	970
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,113	0	1,113	0	1,113	0	1,113	0
Evapotranspiration	0	129	0	129	0	129	0	129
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	338	40	342	40	336	40	340	40
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,360	25	1,435	21	1,312	32	1,393	23
Lateral Flow	166	1,766	165	1,873	166	1,687	165	1,812

MCMULLEN County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	9	0	17	0	8	0	12	0
Wells	0	1	0	27	0	5	0	14
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	373	97	555	21	314	127	418	69
Vertical Leakage Lower	13	289	0	526	31	209	2	343
Lateral Flow	296	304	317	314	293	303	301	308

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	169	0	290	0	137	0	214	0
Wells	0	2	0	225	0	50	0	105
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	518	139	1,155	2	318	290	635	76
Vertical Leakage Lower	0	1,280	0	1,929	2	826	0	1,370
Lateral Flow	952	218	1,034	322	968	258	980	278

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	254	0	450	0	215	0	334	0
Wells	0	152	0	3,046	0	756	0	1,482
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,998	19	3,797	0	1,233	74	2,429	0
Vertical Leakage Lower	882	26	1,459	31	819	30	1,081	34
Lateral Flow	1,939	4,876	2,212	4,841	1,336	2,743	1,590	3,917

MCMULLEN County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	448	0	803	0	369	0	587	0
Wells	0	0	0	226	0	42	0	92
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	26	882	31	1,459	30	819	34	1,081
Vertical Leakage Lower	546	0	789	0	383	0	583	0
Lateral Flow	933	1,071	1,161	1,098	757	679	922	953

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	269	0	809	0	230	0	505	0
Wells	0	0	0	223	0	42	0	91
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	546	0	789	0	383	0	583
Vertical Leakage Lower	308	0	249	0	187	0	206	0
Lateral Flow	84	115	128	174	81	73	93	131

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	102	89	1,183	0	273	31	706	0
Wells	0	0	0	223	0	42	0	91
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	308	0	249	0	187	0	206
Lateral Flow	683	388	623	1,335	434	446	497	907

MEDINA County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	4,676	228	4,984	278	3,806	267	4,519	270
Wells	0	1,501	0	24	0	19	0	22
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	8,790	0	8,790	0	8,790	0	8,790	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,506	44	1,473	49	1,462	59	1,468	54
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	17	0	17	0	17	0	17	0
Vertical Leakage Lower	905	1,313	704	1,429	896	1,199	794	1,313
Lateral Flow	956	13,762	896	15,083	884	14,310	896	14,826

MEDINA County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	84	26	82	26	81	27	82	26
Wells	0	32	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,313	905	1,429	704	1,199	896	1,313	794
Vertical Leakage Lower	721	733	509	846	692	664	596	755
Lateral Flow	46	469	37	481	34	420	36	452

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	3,299	24	4,012	123	2,791	21	3,477	24
Wells	0	981	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	2,638	0	2,638	0	2,638	0	2,638	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	932	32	921	45	925	40	924	40
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	733	721	846	509	664	692	755	596
Vertical Leakage Lower	246	3,880	24	5,379	102	4,353	53	4,985
Lateral Flow	325	2,536	418	2,803	340	2,353	391	2,593

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	2,337	268	4,464	193	2,192	236	3,316	181
Wells	0	1,533	0	5,769	0	2,491	0	4,295
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,925	0	1,815	0	1,925	0	1,925	0
Evapotranspiration	0	327	0	90	0	273	0	169
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	113	225	135	86	113	194	119	136
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	3,880	246	5,379	24	4,353	102	4,985	53
Lateral Flow	564	6,219	994	6,626	753	6,041	892	6,403

UVALDE County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	2	1	1	0	1	3	4	8
Wells	0	0	0	450	0	821	0	497
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,370	0	418	0	1,370	0	584	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	658	0	440	0	649	0	543	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	0	0	0	0	0	0	0	0
Vertical Leakage Lower	0	341	0	11	0	16	0	12
Lateral Flow	6	1,695	0	399	4	1,185	0	615

UVALDE County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	8	31	11	0	7	0	10	0
Wells	0	0	0	5	0	0	0	3
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	100	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	341	0	11	0	16	0	12	0
Vertical Leakage Lower	0	271	0	3	0	4	0	3
Lateral Flow	1	149	0	13	0	19	0	15

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	998	3	742	6	958	5	746	5
Wells	0	119	0	4	0	0	0	2
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	1,034	0	2,086	0	1,134	0	1,921	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	306	10	302	15	302	15	302	15
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	271	0	3	0	4	0	3	0
Vertical Leakage Lower	0	1,465	0	1,846	0	1,435	0	1,723
Lateral Flow	57	1,069	36	1,298	50	994	34	1,261

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	1,915	57	2,000	83	1,576	51	1,842	63
Wells	0	73	0	21	0	15	0	20
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	415	0	415	0	415	0	415	0
Evapotranspiration	0	4	0	6	0	6	0	6
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	125	0	122	0	126	0	123	0
Vertical Leakage Upper	1,465	0	1,846	0	1,435	0	1,723	0
Vertical Leakage Lower	0	0	0	0	0	0	0	0
Lateral Flow	1,276	5,060	1,248	5,522	1,303	4,784	1,253	5,266

WEBB County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	26	132	59	114	8	158	31	127
Wells	0	882	0	883	0	882	0	882
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	529	0	529	0	529	0	529	0
Evapotranspiration	0	124	0	124	0	124	0	124
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	54	0	56	0	52	0	55	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,610	1	5,012	1	4,275	9	4,703	1
Vertical Leakage Lower	360	3,029	365	3,195	358	2,880	362	3,069
Lateral Flow	355	1,766	385	2,091	354	1,525	361	1,838

WEBB County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	75	101	176	63	18	166	92	92
Wells	0	13	0	14	0	13	0	14
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	82	0	82	0	82	0	82	0
Evapotranspiration	0	69	0	69	0	69	0	69
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	15	201	15	197	15	205	15	199
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	3,029	360	3,195	365	2,880	358	3,069	362
Vertical Leakage Lower	36	545	73	523	16	577	42	542
Lateral Flow	907	2,856	927	3,237	920	2,545	905	2,928

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	71	32	160	4	43	102	89	21
Wells	0	6	0	6	0	6	0	6
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	82	0	82	0	82	0	82	0
Evapotranspiration	0	150	0	150	0	150	0	150
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	3,001	2,812	3,011	2,808	2,990	2,816	3,004	2,811
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	545	36	523	73	577	16	542	42
Vertical Leakage Lower	16	611	16	644	13	584	14	623
Lateral Flow	484	550	477	585	496	525	481	559

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	25	39	204	0	7	180	55	1
Wells	0	1	0	1	0	1	0	1
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	15	0	15	0	15	0	15	0
Evapotranspiration	0	42	0	42	0	42	0	42
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	133	0	130	0	135	0	132
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	611	16	644	16	584	13	623	14
Lateral Flow	1,772	2,193	1,785	2,459	1,818	2,054	1,780	2,284

WILSON County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	816	12	1,259	0	894	0	1,077	0
Wells	0	366	0	625	0	363	0	494
Springs (Drain Package)	0	137	0	101	0	133	0	117
Recharge	2,250	0	2,250	0	2,250	0	2,250	0
Evapotranspiration	0	6	0	6	0	6	0	6
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	54	425	159	322	79	397	117	360
General Head Boundary	594	1,318	1,133	756	680	1,181	885	962
Vertical Leakage Lower	465	730	12	1,770	272	885	93	1,268
Lateral Flow	150	1,336	157	1,390	151	1,361	154	1,370

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	688	1,025	5,867	58	1,573	454	3,473	151
Wells	0	160	0	4,632	0	94	0	2,329
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	7,443	0	7,443	0	7,443	0	7,443	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,367	3,592	1,572	1,866	1,469	3,210	1,510	2,529
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,494	435	3,159	12	1,816	232	2,455	66
Vertical Leakage Lower	29	3,140	0	7,644	0	5,157	0	6,396
Lateral Flow	98	2,767	86	3,914	80	3,234	79	3,489

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	2,919	438	19,543	36	8,449	203	14,014	106
Wells	0	16,005	0	45,627	0	25,684	0	35,665
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	8,770	0	8,770	0	8,770	0	8,770	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	10,484	118	12,873	42	11,504	88	12,332	65
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	4,823	3	12,408	0	8,180	0	10,284	0
Vertical Leakage Lower	1,832	407	2,231	559	1,894	453	2,103	496
Lateral Flow	6,295	18,150	9,656	19,218	5,913	18,283	7,735	18,907

WILSON County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	16	0	78	1	36	0	55	0
Wells	0	40	0	0	0	0	0	0
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	0	0	0	0	0	0	0	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	407	1,832	559	2,231	453	1,894	496	2,103
Vertical Leakage Lower	1,531	139	1,627	140	1,469	134	1,589	124
Lateral Flow	75	18	139	31	96	26	117	29

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	258	0	2,285	0	1,009	0	1,596	0
Wells	0	804	0	32	0	32	0	32
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	938	0	938	0	938	0	938	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	569	1,489	892	335	742	1,061	884	729
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	139	1,531	140	1,627	134	1,469	124	1,589
Vertical Leakage Lower	1,023	324	279	2,758	239	1,492	212	2,128
Lateral Flow	1,847	626	2,905	2,687	2,011	1,018	2,386	1,662

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	104	12	2,208	0	922	0	1,533	0
Wells	0	581	0	11,233	0	6,549	0	8,908
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	69	0	69	0	69	0	69	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	117	0	207	0	207	0	207	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	324	1,023	2,758	279	1,492	239	2,128	212
Lateral Flow	4,500	3,498	14,407	8,138	8,932	4,835	11,560	6,377

ZAVALA County

Sparta Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Queen City Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	--	--	--	--	--	--	--	--
Wells	--	--	--	--	--	--	--	--
Springs (Drain Package)	--	--	--	--	--	--	--	--
Recharge	--	--	--	--	--	--	--	--
Evapotranspiration	--	--	--	--	--	--	--	--
Reservoirs (River Package)	--	--	--	--	--	--	--	--
Rivers and Streams (Stream Package)	--	--	--	--	--	--	--	--
General Head Boundary	--	--	--	--	--	--	--	--
Vertical Leakage Upper	--	--	--	--	--	--	--	--
Vertical Leakage Lower	--	--	--	--	--	--	--	--
Lateral Flow	--	--	--	--	--	--	--	--

Carrizo Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	8,726	541	12,004	196	5,629	959	9,858	307
Wells	0	31,765	0	40,103	0	24,643	0	36,031
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	6,441	0	6,396	0	6,477	0	6,441	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	2,643	0	2,641	0	2,643	0	2,649	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	17,213	34	20,352	0	12,822	240	18,083	1
Vertical Leakage Lower	7,718	7,539	6,633	8,000	7,141	5,911	7,057	7,751
Lateral Flow	8,765	11,625	8,725	8,452	6,467	9,429	8,129	8,127

ZAVALA County

Upper Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	216	56	440	27	189	50	355	40
Wells	0	8,295	0	10,441	0	6,317	0	9,368
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	304	0	348	0	304	0	304	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	0	0	0	0	0	0	0	0
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	7,539	7,718	8,000	6,633	5,911	7,141	7,751	7,057
Vertical Leakage Lower	9,113	1,452	9,102	1,376	8,145	1,224	8,978	1,388
Lateral Flow	958	610	979	392	620	436	851	386

Middle Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	1,548	376	1,673	227	1,042	472	1,448	302
Wells	0	4,901	0	6,156	0	3,694	0	5,534
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	991	0	991	0	954	0	991	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	1,417	4	1,418	3	1,417	4	1,418	4
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	1,452	9,113	1,376	9,102	1,224	8,145	1,388	8,978
Vertical Leakage Lower	9,342	2,111	9,645	2,153	7,779	1,936	9,228	2,106
Lateral Flow	2,511	757	2,940	401	2,196	362	2,823	371

Lower Wilcox Aquifer	Baseline GAM Run 06_29 60-Year		High pumping GAM Run 08_41 60-Year		Low pumping GAM Run 08_42 60-Year		Medium pumping GAM Run 08_43 60-Year	
	In	Out	In	Out	In	Out	In	Out
Storage	619	502	821	405	328	587	657	457
Wells	0	411	0	518	0	300	0	454
Springs (Drain Package)	0	0	0	0	0	0	0	0
Recharge	340	0	340	0	340	0	340	0
Evapotranspiration	0	0	0	0	0	0	0	0
Reservoirs (River Package)	0	0	0	0	0	0	0	0
Rivers and Streams (Stream Package)	726	9	726	9	724	9	726	9
General Head Boundary	0	0	0	0	0	0	0	0
Vertical Leakage Upper	2,111	9,342	2,153	9,645	1,936	7,779	2,106	9,228
Lateral Flow	7,803	1,335	8,478	1,941	6,960	1,613	7,995	1,677