

In cooperation with the Texas Water Development Board

# **Results of Streamflow Gain-Loss Studies in Texas, With Emphasis on Gains From and Losses to Major and Minor Aquifers**

Open-File Report 02-068

**U.S. Department of the Interior  
U.S. Geological Survey**

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**By Raymond M. Slade, Jr., J. Taylor Bentley, and Dana Michaud**

**U.S. GEOLOGICAL SURVEY  
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**In cooperation with the Texas Water Development Board**

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Gale A. Norton, Secretary

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Charles G. Groat, Director

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**For additional information write to**

**District Chief  
U.S. Geological Survey  
8027 Exchange Dr.  
Austin, TX 78754-4733  
E-mail: [dc\\_tx@usgs.gov](mailto:dc_tx@usgs.gov)**

**Copies of this report can be purchased from**

**U.S. Geological Survey  
Branch of Information Services  
Box 25286  
Denver, CO 80225-0286  
E-mail: [infoservices@usgs.gov](mailto:infoservices@usgs.gov)**

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# Results of Streamflow Gain-Loss Studies in Texas, With Emphasis on Gains From and Losses to Major and Minor Aquifers

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## Abstract

Data for all 366 known streamflow gain-loss studies conducted by the U.S. Geological Survey in Texas were aggregated. A water-budget equation that includes discharges for main channels, tributaries, return flows, and withdrawals was used to document the channel gain or loss for each of 2,872 subreaches for the studies. The channel gain or loss represents discharge from or recharge to aquifers crossed by the streams. Where applicable, the major or minor aquifer outcrop traversed by each subreach was identified, as was the length and location for each subreach. These data will be used to estimate recharge or discharge for major and minor aquifers in Texas, as needed by the Ground-Water Availability Modeling Program being conducted by the Texas Water Development Board. The data also can be used, along with current flow rates for streamflow-gaging stations, to estimate streamflow at sites remote from gaging stations, including sites where streamflow availability is needed for permitted withdrawals.

## INTRODUCTION

As part of the Ground-Water Availability Modeling (GAM) Program currently (2001) being conducted by the Texas Water Development Board (TWDB), data are needed to quantify the interaction of surface water and ground water for the nine major aquifers (Ashworth and Hopkins, 1995) and most of the 20 minor aquifers in Texas. Where streams flow across aquifer outcrops, channel gains and losses constitute aquifer discharge and recharge, respectively. To make this aquifer discharge and recharge information available for the GAM Program, the U.S. Geological Survey (USGS), in cooperation with the TWDB, compiled data and computed

streamflow gains and losses from all available records of gain-loss studies done by the USGS in Texas.

Since 1918, the USGS has conducted streamflow gain-loss studies on streams throughout much of Texas. The usual objective of the gain-loss studies was to obtain data that could be used to estimate discharge from or recharge to shallow aquifers. Most gain-loss studies were done during low-flow conditions because low flows are more likely to be steady (not changing with time) than other flows (except in reaches downstream from major springs or reaches downstream from reservoirs where sustained releases account for most of the flow).

In 1958, the data for all known streamflow gain-loss studies were compiled and published in a report by the Texas Board of Water Engineers (currently the TWDB) and the USGS (Texas Board of Water Engineers, 1960). The data for most of the studies done since 1958 have been published in annual data reports and other reports by the USGS. This study carries the documentation of gain-loss studies a step farther: The gains and losses in stream subreaches (channel segments between flow-measuring sites in a reach) were related to major and minor aquifer outcrops in digital and geographic information system (GIS) databases.

## Purpose and Scope

The purpose of this report is to summarize the results of 366 gain-loss studies involving 249 unique reaches of streams throughout Texas since 1918. The locations of subreaches for which gains and losses were computed are indicated by streamflow-measurement sites on maps of major and minor aquifer outcrops. The gain-loss studies are tabulated by sequential number, major river basin, stream name, and reach identification, and the total gain or loss for each reach is given. The gains and losses for each subreach are tabulated by sequential number for the gain-loss study and located by latitude and longitude of the upstream end of the

subreach. Where applicable, the major or minor aquifer outcrop traversed by a subreach is identified.

### Ancillary Benefits

The compilation of streamflow gain-loss data could be beneficial to the Water Uses and Availability Section of the Water Resources Management Division of the Texas Natural Resource Conservation Commission (TNRCC). That section is responsible for permitting surface-water withdrawals in Texas. Most of the recently issued permits represent contingency permits, which authorize surface-water withdrawals only when the streamflow exceeds a threshold rate. The threshold streamflow rate for each contingency permit generally represents the total discharge needed to sustain permitted withdrawals downstream from the withdrawal point for the contingency permit plus any streamflow required as inflow to receiving bays or estuaries. Contingency permits are used to protect the existing water rights of users downstream from newer users.

The TNRCC and others associated with surface-water usage often use USGS current streamflow data available on the World Wide Web to verify existing streamflow conditions pertinent to contingency permits. However, there are only about 350 existing streamflow-gaging stations, and the location of withdrawal points for contingency permits often are many miles from the nearest streamflow-gaging station. Stream-channel gain and loss data can be used, along with the current streamflow rates for gaging stations, to estimate the current streamflow for sites remote from the gaging stations, including sites that represent surface-water withdrawals for contingency permits.

Reservoir owners also could benefit from the compilation of streamflow gain-loss data. Many reservoir owners are required to release sufficient water to sustain the permitted withdrawal rate for downstream water rights. The permitted users are guaranteed a specific withdrawal rate. The gains and losses of channel flow can be used by reservoir owners to help determine reservoir release rates needed to sustain permitted downstream withdrawal rates.

### Method of Gain-Loss Studies

The usual method of gain-loss studies is to identify a stream reach and obtain streamflow measurements along the main channel of the reach. The location of each main-channel measurement site is referenced and documented as a distance on the stream channel, usually

upstream from its mouth. The channel gain or channel loss can be computed for the subreach between each main-channel measurement site by equating inflows to outflows plus flow gain or loss in the subreach:

$$Q_u + Q_t + Q_r = Q_d + Q_w + Q_e + Q_g, \quad (1)$$

where

- $Q_u$  = streamflow in at upstream end of subreach;
- $Q_t$  = streamflow from tributaries into subreach;
- $Q_r$  = return flows to subreach;
- $Q_d$  = streamflow out at downstream end of subreach;
- $Q_w$  = withdrawals from subreach;
- $Q_e$  = evapotranspiration from subreach; and
- $Q_g$  = gain (positive) or loss (negative) in subreach.

Thus,

$$Q_g = Q_u + Q_t + Q_r - Q_d - Q_w - Q_e. \quad (2)$$

For most streams, underflow (flow parallel to stream through shallow channel-bed deposits) and bank storage are considered negligible or minimal.

Many of the studies were done during winter to minimize evapotranspiration. Also, the short length of most subreaches and minimal width of the streams during low-flow conditions would allow only minimal evapotranspiration losses. Therefore,  $Q_e$  is assumed to be zero in the computations for this report. In each gain-loss study, attempts were made to identify and measure the discharge for all flowing tributaries, return flows, and withdrawals. If these discharges could not be measured, attempts were made to obtain the discharges from other sources such as the TNRCC. However, the USGS cannot verify that all inflow or outflow sources for the reaches were accounted for.

## RESULTS

### Studies in All Reaches

Three-hundred sixty-six streamflow gain-loss studies in 249 unique reaches were identified and included in this investigation. More than one study has been done at many of the reaches. The locations of streamflow-measurement sites for the studies are shown on plate 1. The studies included about 4,941 measurements of which 3,238 were made at sites on the main channels of the study reaches; the remaining measurements were made on tributaries to the main channels or represent withdrawals. A tabular summary of the flow-loss studies (table 1) includes for each study the major

river basin, stream name, study reach identification, date of study, reach length (in river miles), total number of measurement sites, number of sites on the main channel, major aquifer outcrop(s) intersected by the reach, total streamflow gain or loss in the reach, streamflow gain or loss per mile of reach length, and reference for the data. The reaches for many studies are identified in table 1 by eight-digit numbers for streamflow-gaging stations. Station numbers and associated station names for Texas streamflow-gaging stations with daily streamflow data are listed in table 2.

Table 3 presents selected streamflow characteristics for all streamflow-gaging stations with computer-stored discharge measurements and daily mean streamflows in Texas (346 sites). These data include the station number and name, latitude and longitude, contributing drainage area, and the following data pertinent to median flow conditions: the streamflow, gage height, stream width, stream cross-sectional area, mean velocity, and mean stream depth. Also presented is the elevation of the datum of the gage, which can be added to the gage height to obtain the water-surface elevation above sea level for the median streamflow. The streamflow at the gaging station during a gain-loss study can be compared to the median streamflow to assess the flow conditions during the study.

Equation 2 was used to compute the streamflow gain or loss for each subreach. The data and information for the gains or losses in each of 2,872 subreaches (table 4) include the latitude and longitude at the upstream end of the subreach, the underlying major or minor aquifer outcrop, the streamflow gain or loss, the stream subreach length, the location (river mile) of the upstream end of the subreach, and a descriptive location for selected upstream ends.

The data for most of the studies have been published. The references (table 1) can be consulted for additional information about a study. Detailed descriptions for most of the measuring-site locations are in the referenced reports.

### Studies in Reaches Intersecting Aquifer Outcrops

Most of the gain-loss studies involved reaches that intersect at least one major aquifer outcrop, and many intersect more than one major aquifer outcrop (pl. 1). Relatively few studies have been done involving reaches that intersect the outcrops of the Hueco-Mesilla Bolson and Ogallala aquifers and none involving the

Seymour aquifer (see table below); however, gain-loss studies have been done for many of the major streams that intersect the other six major aquifer outcrops.

Numbers of gain-loss studies associated with the nine major aquifer outcrops in Texas

Major aquifer outcrop	Number of gain-loss studies
Carrizo-Wilcox	47
Cenozoic Pecos Alluvium	53
Edwards (Balcones fault zone)	126
Edwards-Trinity (Plateau)	82
Gulf Coast	28
Hueco-Mesilla Bolson	6
Ogallala	5
Seymour	0
Trinity	92

Plate 2 shows the locations of gain-loss studies in reaches that intersect outcrops of minor aquifers in Texas. Not surprisingly, fewer studies involved reaches intersecting minor aquifer outcrops because the areal extent of minor aquifer outcrops is appreciably less than that of major aquifers.

### Additional Information and Qualifications

Streamflow studies were conducted more than once for many of the reaches. For most reaches with multiple studies, the gains or losses differ between the studies. Much of the difference in gains or losses probably is caused by varying water levels in aquifers adjacent to the reaches. For example, periods of high recharge preceding a study could result in large flow gains, and "dry" conditions preceding a study could result in smaller gains or result in losses. Also, varying bank storage could cause differences in gains or losses. As previously stated, the studies summarized in this report considered bank storage to be minimal or negligible. However, bank storage could represent a substantial source of inflow to main channels of some streams, particularly streams in alluvial outcrops. Streamflow data from nearby gaging stations, if available, can indicate whether bank flow is more than a minimal source of water. Large daily streamflows for dates preceding a

gain-loss study could imply high recharge conditions and substantial bank flow.

Streamflow data from gaging stations can be used to supplement or augment data from channel gain-loss studies. For example, many streams have more than one gaging station. Daily flow data at proximate gaging sites on the same stream can be used to estimate gains or losses in channel flow for the reach between the stations. Current and historic streamflow data for Texas streamflow-gaging stations are available on the World Wide Web at <http://tx.usgs.gov>

Streamflow gains and losses are subject to error because of potential error in the streamflow measurements. The potential error in each streamflow measurement typically is about 5 to 8 percent; however, the potential error for most streamflow gains or losses is larger than that, and the potential error increases as the ratio of the gain (or loss) to the measured flow increases. For example, the potential error in a measured flow of 10 cubic feet per second ( $\text{ft}^3/\text{s}$ ) for a main-channel site would be about  $0.5 \text{ ft}^3/\text{s}$ , and the potential error for  $11 \text{ ft}^3/\text{s}$  measured at a downstream main channel site would be about  $0.5 \text{ ft}^3/\text{s}$ . The total potential error therefore would be about  $1.0 \text{ ft}^3/\text{s}$  for the two measured flows, which is comparable to the computed gain of  $1.0 \text{ ft}^3/\text{s}$  for the reach between the sites; thus the actual gain could range from 0 to  $2.0 \text{ ft}^3/\text{s}$ .

## SELECTED REFERENCES

- Ashworth, J.B., and Hopkins, Janie, 1995, Major and minor aquifers of Texas: Texas Water Development Board Report 345, 69 p.
- Baker, E.T., Jr., Slade, R.M., Jr., Dorsey, M.E., and Ruiz, L.M., 1986, Geohydrology of the Edwards aquifer in the Austin area, Texas: Texas Water Development Board Report 293, 216 p.
- Land, L.F., Boning, C.W., Harmsen, Lynn, and Reeves, R.D., 1983, Streamflow losses along the Balcones fault zone, Nueces River Basin, Texas: U.S. Geological Survey Water-Resources Investigations Report 83-4168, 72 p.
- Slade, R.M., Jr., Gaylord, J.L., Dorsey, M.E., Mitchell, R.N., and Gordon, J.D., 1982, Hydrologic data for urban studies in the Austin, Texas, metropolitan area, 1980: U.S. Geological Survey Open-File Report 82-506, 264 p.
- Texas Board of Water Engineers, 1960, Channel gain and loss investigations, Texas streams, 1918-1958: Texas Board of Water Engineers Bulletin 5807-D, 270 p.
- U.S. Geological Survey, 1963-65, Surface water records of Texas 1962-64: U.S. Geological Survey [variously paged].
- \_\_\_\_\_, 1966-70, 1972, 1975, Water resources data for Texas, water years 1965-69, 1971, 1974—Part 1. Surface water records: U.S. Geological Survey [variously paged].
- \_\_\_\_\_, 1976-77, 1981-82a, 1986, Water resources data for Texas, water years 1975-76, 1980-81, 1985—Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin, and intervening coastal basins: U.S. Geological Survey Water-Data Reports TX-75-3, 510 p.; TX-76-3, 557 p.; TX-80-3, 583 p.; TX-81-3, 599 p.; TX-85-3, 447 p.
- \_\_\_\_\_, 1980, Water resources data for Texas, water year 1979—Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and intervening coastal basins: U.S. Geological Survey Water-Data Report TX-79-2, 511 p.
- \_\_\_\_\_, 1982b, Water resources data for Texas, water year 1981—Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin, and intervening coastal basins: U.S. Geological Survey Water-Data Report TX-81-1, 597 p.



**Table 1.** Characteristics of flow gain-loss studies in Texas

[mi, miles; ft<sup>3</sup>/s, cubic feet per second; ft<sup>3</sup>/s-mi, cubic feet per second per mile; Cr, Creek; USGS, U.S. Geological Survey; --, not applicable; R, River; TBWE, Texas Board of Water Engineers; Fk, Fork; ft, feet; PCWID, Pecos County Water Improvement District; IBWC, International Boundary and Water Commission; RCWID, Reeves County Water Improvement District]

Note: Eight digit streamflow-gaging stations used to identify some reaches

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
1	Brazos	Berry Cr	Briggs to mouth (northeast of Georgetown)	4/21–24/1978	30.1	17	11	Edwards	2.25	0.075	USGS (1980)
2	Brazos	Berry Cr	Briggs to mouth (northeast of Georgetown)	8/15/1978	30.1	17	11	Edwards	–.21	–.007	USGS (1980)
3	Brazos	Berry Cr	Briggs to mouth (northeast of Georgetown)	2/15/1979	30.1	17	11	Edwards	31.29	1.04	USGS (1980)
4	Brazos	Berry Cr	Briggs to mouth (northeast of Georgetown)	8/14–15/1979	30.1	17	11	Edwards	21.75	.723	USGS (1980)
5	Brazos	Brushy Cr	northwest of Leander to 4 mi east of Round Rock	4/17–18/1978	20.8	21	8	Edwards	6.05	.291	USGS (1980)
6	Brazos	Brushy Cr	northwest of Leander to 4 mi east of Round Rock	8/17–18/1978	20.8	21	8	Edwards	.07	.003	USGS (1980)
7	Brazos	Brushy Cr	northwest of Leander to 4 mi east of Round Rock	2/13–14/1979	20.8	21	8	Edwards	48.05	2.31	USGS (1980)
8	Brazos	Brushy Cr	northwest of Leander to 4 mi east of Round Rock	8/13–14/1979	20.8	21	8	Edwards	6.57	.316	USGS (1980)
9	Brazos	Hubbard Cr	county road 2.5 mi north of Sedwick to Breckenridge (08086500)	1/25–26/1962	24.1	14	5	--	–3.18	–.132	USGS (1963)
10	Brazos	Lampasas R	northeast of Lampasas to mouth	6/3–6/1963	79.8	22	12	Edwards, Trinity	–5.5	–.069	USGS (1964)
11	Brazos	Lampasas R	Stillhouse Hollow Dam site to confluence with Little R	1/16/1968	15.7	6	4	Edwards	15.88	1.011	USGS (1969)
12	Brazos	Leon R	Belton Dam to Little River	1/16–17/1968	9	11	4	--	2.48	.276	USGS (1969)
13	Brazos	Leon R	southeast of Eastland to near Hasse	3/13–14/1951	45.5	18	11	Trinity	.26	.006	TBWE (1960)
14	Brazos	North Fk San Gabriel R	above US 183 to Country Club Rd at Georgetown	4/26–27/1978	17	15	8	Edwards, Trinity	3.65	.215	USGS (1980)
15	Brazos	North Fk San Gabriel R	above US 183 to Country Club Rd at Georgetown	8/16–26/1978	17	15	8	Edwards, Trinity	.07	.004	USGS (1980)
16	Brazos	North Fk San Gabriel R	above US 183 to Country Club Rd at Georgetown	2/13–15/1979	17	15	8	Edwards, Trinity	33.74	1.985	USGS (1980)
17	Brazos	North Fk San Gabriel R	above US 183 to Country Club Rd at Georgetown	8/13–15/1979	17	15	8	Edwards, Trinity	9.4	.553	USGS (1980)
18	Brazos	North Fk San Gabriel R	north of Leander to mouth	3/16–18/1964	14.4	13	6	Edwards, Trinity	1.98	.138	USGS (1965)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
19	Brazos	Salado Cr	northwest of Florence to Salado	4/24/1978	26.2	12	7	Edwards	15.29	0.584	USGS (1980)
20	Brazos	Salado Cr	northwest of Florence to Salado	8/14/1978	26.2	12	7	Edwards	8.96	.342	USGS (1980)
21	Brazos	Salado Cr	northwest of Florence to Salado	2/16/1979	26.2	12	7	Edwards	63.0	2.405	USGS (1980)
22	Brazos	Salado Cr	northwest of Florence to Salado	8/15/1979	26.2	12	7	Edwards	49.09	1.874	USGS (1980)
23	Brazos	Salt Prong Hubbard Cr	8.3 mi above mouth to 0.5 mi above mouth	1/25/1962	7.8	3	3	--	.84	.108	USGS (1963)
24	Brazos	San Gabriel R	Georgetown (08105000) to mouth	3/17–18/1964	49	25	11	--	10.54	.215	USGS (1965)
25	Brazos	South Fk San Gabriel R	US 183 to SH 29 at Georgetown	3/16/1964	12.8	6	4	Edwards	1.38	.108	USGS (1965)
26	Brazos	South Fk San Gabriel R	near Bertram to Georgetown	4/19–21/1978	29.7	21	13	Edwards, Trinity	5.09	.171	USGS (1980)
27	Brazos	South Fk San Gabriel R	near Bertram to Georgetown	8/17/1978	29.7	21	13	Edwards, Trinity	.01	.0	USGS (1980)
28	Brazos	South Fk San Gabriel R	near Bertram to Georgetown	2/13–15/1979	29.7	21	13	Edwards, Trinity	33.22	1.119	USGS (1980)
29	Brazos	South Fk San Gabriel R	near Bertram to Georgetown	8/13–15/1979	29.7	21	14	Edwards, Trinity	8.59	.289	USGS (1980)
30	Brazos	Sulphur Cr	Lampasas to 1.5 mi downstream from Burleson Cr	6/30/1942	3.67	9	6	Trinity	15.2	4.142	TBWE (1960)
31	Brazos	Sulphur Cr	Lampasas to 1.5 mi downstream from Burleson Cr	8/10/1942	3.67	9	6	Trinity	11.7	3.188	TBWE (1960)
32	Colorado	Barton Cr	Loop 360 (08155300) to above Barton Springs	2/9/1981	3.5	5	5	Edwards	-17.0	-4.857	Slade and others (1982)
33	Colorado	Barton Cr	Loop 360 (08155300) to above Barton Springs	4/28/1981	3.5	5	5	Edwards	-5.43	-1.551	Slade and others (1982)
34	Colorado	Barton Cr	northeast of Henly to Barton Springs	7/6–8/1970	49.5	27	24	Edwards, Trinity	99.07	2.001	USGS (1972)
35	Colorado	Barton Cr	northeast of Henly to Barton Springs	10/1–3/1970	49.5	27	24	Edwards, Trinity	82.44	1.665	USGS (1972)
36	Colorado	Barton Cr	SH 71 (08155200) to Barton Springs (08155500)	5/29/1980	21	17	16	Edwards, Trinity	11.02	.525	Slade and others (1982)
37	Colorado	Beals Cr	FM 87 to 0.5 mi above mouth	2/24/1986	58.7	9	8	Ogallala	-.04	-.001	unpublished
38	Colorado	Beals Cr	FM 87 to 0.5 mi above mouth	12/9–10/1986	58.7	9	8	Ogallala	2.85	.049	unpublished
39	Colorado	Beals Cr	US 87 to 0.5 mi above mouth	2/27–3/1/1989	58.7	8	7	Ogallala	3.88	.066	unpublished
40	Colorado	Bear Cr	southeast of FM 1826 (08158810) to above MoPac RR	5/23/1980	10.1	10	8	Edwards, Trinity	-3.8	-.376	Slade and others (1982)
41	Colorado	Brady Cr	Brady to mouth	3/29/1918	28	3	3	--	1.7	.061	TBWE (1960)
42	Colorado	Colorado R	below Lake J.B. Thomas dam to FM 503 (08136700)	2/24–26/1986	239.1	60	28	--	1.89	.008	unpublished

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
43	Colorado	Colorado R	below Lake J.B. Thomas dam to FM 503 (08136700)	1/6–9/1987	239.1	60	28	--	-23.64	-0.099	unpublished
44	Colorado	Colorado R	below Lake J.B. Thomas dam to FM 503 (08136700)	2/27–3/1/1989	239.1	60	28	--	-5.41	-0.023	unpublished
45	Colorado	Colorado R	Bull Cr to Colorado City (08121000)	2/14/1975	35.5	19	12	--	7.98	.225	USGS (1976)
46	Colorado	Colorado R	Bull Cr to Colorado City (08121000)	11/13/1975	35.5	19	12	--	4.96	.14	USGS (1977)
47	Colorado	Colorado R	Bull Cr to Colorado City (08121000)	1/20/1976	35.5	19	12	--	-2.24	-0.063	USGS (1977)
48	Colorado	Colorado R	Bull Cr to Colorado City (08121000)	3/2/1976	35.5	19	12	--	-2.25	-0.063	USGS (1977)
49	Colorado	Colorado R	Austin (08158000) to near Bay City (08162500)	8/19–21/1985	257.6	19	12	Carrizo-Wilcox, Gulf Coast	-1,634.24	-6.344	USGS (1986)
50	Colorado	Colorado R	near Silver (08123900) to Robert Lee (08124000)	12/14/1966	34.7	4	4	--	-2.97	-0.086	USGS (1968)
51	Colorado	Colorado R	near Silver (08123900) to Robert Lee (08124000)	3/21/1967	34.7	10	10	--	-2.69	-0.078	USGS (1968)
52	Colorado	Colorado R	near Vincent (08118000) to near Silver (08123900)	4/8/1968	103.2	32	22	--	-.28	-0.003	USGS (1969)
53	Colorado	Colorado R	Robert Lee to Barton Springs (08155500)	4/7–24/1925	365	106	37	Edwards, Trinity	96.53	.264	TBWE (1960)
54	Colorado	Colorado R	Robert Lee to mouth	8/7–14/1918	593	117	43	Carrizo-Wilcox, Edwards, Gulf Coast, Trinity	340.6	.574	TBWE (1960)
55	Colorado	Concho R	confluence of North and South Concho (08136000) to FM 1929	2/25–26/1986	54.7	10	6	--	7.25	.133	unpublished
56	Colorado	Concho R	confluence of North and South Concho (08136000) to FM 1929	1/6–7/1987	54.7	10	6	--	36.23	.662	unpublished
57	Colorado	Concho R	confluence of North and South Concho (08136000) to FM 1929	2/28–3/1/1989	54.7	10	6	--	37.8	.691	unpublished
58	Colorado	Concho R	confluence of North and South Concho to mouth	3/27–28/1918	51.5	14	7	--	4.6	.089	TBWE (1960)
59	Colorado	Concho R	confluence of North and South Concho to mouth	3/17–20/1925	54.5	28	12	--	6.6	.121	TBWE (1960)
60	Colorado	Dove Cr	9 mi above Knickerbocker to mouth	3/4–5/1925	11.8	8	5	Edwards-Trinity (Plateau)	15.7	1.331	TBWE (1960)
61	Colorado	Elm Cr	FM 1770 to north of Ballinger (08127000)	2/26/1986	18.4	9	7	--	-.53	-0.029	unpublished
62	Colorado	Elm Cr	FM 1770 to north of Ballinger (08127000)	1/7/1987	18.4	9	7	--	12.7	.69	unpublished

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
63	Colorado	Elm Cr	FM 1770 to north of Ballinger (08127000)	3/1/1989	18.4	9	7	--	0.68	0.037	unpublished
64	Colorado	Johnson Fk Llano R	headwater springs to mouth	2/6–15/1925	16.8	9	8	Edwards-Trinity (Plateau)	8.9	.53	TBWE (1960)
65	Colorado	Llano R	confluence of North and South Llano to Llano (08151500)	1/17–24/1962	83.5	56	20	Edwards-Trinity (Plateau)	7.84	.094	USGS (1963)
66	Colorado	Llano R	Junction gaging station to Llano (08151500)	9/3–4/1952	79	12	10	Edwards-Trinity (Plateau)	-18.83	-.238	TBWE (1960)
67	Colorado	Llano R	Junction to mouth	3/31–4/3/1918	106	26	13	Edwards-Trinity (Plateau)	22.3	.21	TBWE (1960)
68	Colorado	Llano R	confluence of North and South Llano to mouth	2/14–21/1925	105	23	17	Edwards-Trinity (Plateau)	5.7	.054	TBWE (1960)
69	Colorado	Middle Concho R	Kiowa Cr to mouth	3/10–11/1925	47.7	14	13	--	-.8	-.017	TBWE (1960)
70	Colorado	Middle Concho R	San Angelo-Mertzson Rd to mouth	3/27–28/1918	22	2	2	--	3.9	.177	TBWE (1960)
71	Colorado	North Concho R	13 mi above Sterling City to confluence with South Concho R	5/25–26/1918	78	40	29	--	5.1	.065	TBWE (1960)
72	Colorado	North Concho R	above Sterling City to confluence with South Concho R	2/28–3/17/1925	55.3	13	12	--	2.3	.042	TBWE (1960)
73	Colorado	North Concho R	Sterling City to confluence with South Concho R	3/27/1918	48	9	7	--	-1.1	-.023	TBWE (1960)
74	Colorado	North Llano R	10 mi above Roosevelt to Junction	2/7–14/1925	31.8	14	10	Edwards-Trinity (Plateau)	6.9	.217	TBWE (1960)
75	Colorado	Onion Cr	FM 12 to mouth	4/23–24/1958	59.2	21	9	Edwards, Trinity	-24.9	-.421	TBWE (1960)
76	Colorado	Onion Cr	FM 150 (08158700) to US 183 (08159000)	5/28/1980	35.4	19	14	Edwards, Trinity	-82.7	-2.336	Slade and others (1982)
77	Colorado	Pedernales R	below Harper to near Johnson City (08153500)	1/9–17/1956	70	69	39	Edwards-Trinity (Plateau), Trinity	4.76	.068	TBWE (1960)
78	Colorado	Pedernales R	Harper to Hamilton Pool	4/3–4/1962	18	12	8	Edwards-Trinity (Plateau), Trinity	.46	.026	USGS (1963)
79	Colorado	Pedernales R	Harper to Hamilton Pool	5/15–21/1962	88.7	43	23	Trinity	12.31	.139	USGS (1963)
80	Colorado	San Saba R	above Fort McKavett to Brady Cr	7/27–29/1933	80.1	32	18	Edwards-Trinity (Plateau)	7.7	.096	TBWE (1960)
81	Colorado	San Saba R	below Fort McKavett to Menard (08144500)	2/20–21/1940	20.9	13	6	Edwards-Trinity (Plateau)	4.0	.191	TBWE (1960)
82	Colorado	San Saba R	near Dorans Ranch to San Saba (08146000)	11/17–18/1921	14	6	2	--	-.9	-.064	TBWE (1960)
83	Colorado	San Saba R	near Fort McKavett to mouth	3/29–31/1918	105	29	11	Edwards-Trinity (Plateau)	-2.5	-.024	TBWE (1960)
84	Colorado	Slaughter Cr	Bear Cr below FM 1826 (08158810) to FM 2304 (08158860)	3/5/1981	7.4	6	6	Edwards, Trinity	-54.7	-7.392	Slade and others (1982)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
85	Colorado	Slaughter Cr	FM 1826 (08158840) to downstream from Chappell Ln	5/22/1980	8.8	11	10	Edwards, Trinity	-10.45	-1.188	Slade and others (1982)
86	Colorado	South Concho R	above Christoval to mouth	3/12-16/1925	24.8	12	5	Edwards-Trinity (Plateau)	19.6	.79	TBWE (1960)
87	Colorado	South Concho R	above Middle Concho to 3.5 mi below Middle Concho	4/27/1918	1	3	2	--	2.2	2.2	TBWE (1960)
88	Colorado	South Concho R	Christoval to confluence with North Concho R	3/27-28/1918	19.8	13	7	Edwards-Trinity (Plateau)	13.3	.672	TBWE (1960)
89	Colorado	South Concho R	south of Christoval to above Lake Nasworthy	6/18/1953	12	6	5	Edwards-Trinity (Plateau)	-4.64	-.387	TBWE (1960)
90	Colorado	South Llano R	above Telegraph to confluence with North Llano R	4/1/1918	18.5	5	2	Edwards-Trinity (Plateau)	2.3	.124	TBWE (1960)
91	Colorado	South Llano R	below confluence of West and South Fk to mouth	2/10-14/1925	25.9	12	9	Edwards-Trinity (Plateau)	26.7	1.031	TBWE (1960)
92	Colorado	Spring Cr	above Mertzon to mouth	3/6-11/1925	26.5	17	12	Edwards-Trinity (Plateau)	25.6	.966	TBWE (1960)
93	Colorado	Spring Cr	above Seven Springs to mouth	3/27/1918	27	15	10	Edwards-Trinity (Plateau)	10.5	.389	TBWE (1960)
94	Colorado	Williamson Cr	east of the "Y" (US 290/SH 71) in Oak Hill (08158920) to FM 2304 (08158930)	3/5/1981	5.4	6	5	--	-12.23	-2.265	Slade and others (1982)
95	Colorado	Williamson Cr	Old Oak Hill-Bee Cave Rd to Jimmy Clay Rd (08158970)	5/20/1980	13.5	16	14	Edwards, Trinity	-4.88	-.361	Slade and others (1982)
96	Colorado	Wolf Cr	12.1 mi above mouth to mouth	1/16/1956	12.1	10	5	Trinity	1.9	.157	TBWE (1960)
97	Guadalupe	Blanco R	10 mi upstream of Wimberley to northeast of San Marcos	3/15-16/1955	33.3	7	6	Edwards, Trinity	-10.3	-.309	TBWE (1960)
98	Guadalupe	Blanco R	9 mi below Blanco to Wimberley (08171000)	2/25-3/4/1963	27.1	28	20	Trinity	25.9	.956	USGS (1964)
99	Guadalupe	Blanco R	above Halifax Cr to near Kyle	7/22/1924	4.2	3	3	Edwards	-13.1	-3.119	TBWE (1960)
100	Guadalupe	Blanco R	upstream from Little Blanco R to northeast of San Marcos	1/24-28/1955	49.6	33	30	Edwards, Trinity	-2.65	-.053	TBWE (1960)
101	Guadalupe	Blanco R	Wimberley (08171000) to Kyle (08171300)	7/10-14/1957	16.2	8	7	Edwards, Trinity	-13.9	-.858	TBWE (1960)
102	Guadalupe	Blanco R	Wimberley to near Kyle	6/12/1924	19.4	3	3	Edwards, Trinity	14.0	.722	TBWE (1960)
103	Guadalupe	Blanco R	Wimberley to near Kyle	7/15-16/1924	19.4	4	4	Edwards, Trinity	-12.8	-.66	TBWE (1960)
104	Guadalupe	Cibolo Cr	Schertz to San Antonio R near Falls City (08183500)	9/12-13/1949	62	10	7	Carrizo-Wilcox	13.95	.225	TBWE (1960)
105	Guadalupe	Cypress Cr	FM 1341 to mouth	3/25/1965	10	4	4	Trinity	3.35	.335	USGS (1966)
106	Guadalupe	Guadalupe R	2.5 mi below Spring Branch (08167500) to below Cranes Mill spring	5/11/1955	16.5	6	3	Trinity	63.5	3.848	TBWE (1960)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
107	Guadalupe	Guadalupe R	Canyon Dam to 3.6 mi downstream	4/9/1965	3.5	9	6	Trinity	-10.57	-3.02	USGS (1966)
108	Guadalupe	Guadalupe R	Canyon Dam to 3.6 mi downstream	4/16/1965	3.5	8	5	Trinity	.3	.086	USGS (1966)
109	Guadalupe	Guadalupe R	Canyon Dam to 3.6 mi downstream	4/22/1965	3.5	8	5	Trinity	2.81	.803	USGS (1966)
110	Guadalupe	Guadalupe R	Comfort to New Braunfels	1/16–19/1928	108.7	25	13	Edwards, Trinity	13.2	.121	TBWE (1960)
111	Guadalupe	Guadalupe R	Comfort to New Braunfels	2/18–22/1929	108.7	29	16	Edwards, Trinity	10.9	.1	TBWE (1960)
112	Guadalupe	Guadalupe R	confluence of North and South Fk to Comfort (08167000)	3/16/1965	.8	4	4	Trinity	22.2	27.75	USGS (1966)
113	Guadalupe	Guadalupe R	confluence of North and South Fk to Comfort (08167000)	3/24–25/1965	34	37	12	Trinity	47.42	1.395	USGS (1966)
114	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	1/24–31/1955	57	41	33	Edwards, Trinity	-43.7	-.767	TBWE (1960)
115	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	2/28–3/2/1955	57	15	13	Edwards, Trinity	-1.0	-.018	TBWE (1960)
116	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	3/14–15/1955	57	9	8	Edwards, Trinity	11.0	.193	TBWE (1960)
117	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	3/29–30/1955	67.3	10	9	Edwards, Trinity	-1.4	-.021	TBWE (1960)
118	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	4/12–13/1955	57	9	8	Edwards, Trinity	-.3	-.005	TBWE (1960)
119	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	4/26–27/1955	57	9	8	Edwards, Trinity	.8	.014	TBWE (1960)
120	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	5/9–10/1955	51.3	8	5	Edwards, Trinity	-499.04	-9.728	TBWE (1960)
121	Guadalupe	Guadalupe R	near Spring Branch to New Braunfels	3/7–8/1962	57	14	12	Edwards, Trinity	23.1	.405	USGS (1963)
122	Guadalupe	Guadalupe R	near Spring Branch to Wunderlich Ranch	1/17/1955	15.1	7	6	Trinity	-39.4	-2.609	TBWE (1960)
123	Guadalupe	Johnson Cr	4.9 mi northwest of Mountain Home to near mouth	3/15–16/1965	19	16	6	Edwards-Trinity (Plateau), Trinity	9.33	.491	USGS (1966)
124	Guadalupe	Medina Canal	head of canal (08180000) to first diversion lateral	8/15/1969	23.6	5	5	Edwards	-4.0	-.169	USGS (1970)
125	Guadalupe	Medina R	5.8 mi above Medina to Turks Head Mountain in Medina Lake	9/6–7/1955	45.7	26	16	Trinity	-4.84	-.106	TBWE (1960)
126	Guadalupe	Medina R	5 mi above Lima to 4 mi below Pipe Cr	6/3–5/1925	43.8	19	12	Trinity	2.2	.05	TBWE (1960)
127	Guadalupe	Medina R	8.3 mi above Medina to 1.5 mi below Bandera-Medina Co line	1/3–7/1955	47.1	28	19	Trinity	-.067	-.014	TBWE (1960)
128	Guadalupe	Medina R	Bandera to Turks Head Mountain in Medina Lake	2/17–18/1955	20.4	12	7	Trinity	-4.62	-.226	TBWE (1960)
129	Guadalupe	Medina R	Main Dam to near Riomedina	12/9/1924	10.9	5	5	Edwards, Trinity	6.6	.606	TBWE (1960)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

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130	Guadalupe	Medina R	Medina Co Irrigation Co. diversion dam to Losoya	5/26–28/1925	55.1	19	14	Carrizo-Wilcox, Edwards	-3.2	-0.058	TBWE (1960)
131	Guadalupe	North Fk Guadalupe R	Kerr Wildlife Management Area to confluence with South Fk Guadalupe R	3/15–16/1965	20	18	10	Edwards-Trinity (Plateau), Trinity	15.32	.766	USGS (1966)
132	Guadalupe	South Fk Guadalupe R	Lynhaven resort to confluence with North Fk Guadalupe R	3/15–16/1965	12.2	15	9	Edwards-Trinity (Plateau), Trinity	11.86	.972	USGS (1966)
133	Guadalupe	Turtle Cr	FM 1273 to FM 692	3/24–25/1965	9.2	4	3	Trinity	11.96	1.3	USGS (1966)
134	Guadalupe	Verde Cr	7.7 mi southwest of Center Point	3/25/1965	10.4	6	3	Trinity	6.93	.666	USGS (1966)
135	Lavaca	Lavaca R	east of Hallettsville (08163500) to southeast of Edna	12/14–17/1970	65.4	18	14	Gulf Coast	18.23	.279	USGS (1972)
136	Lavaca	Lavaca R	near Edna	11/4/1947	9.5	7	5	Gulf Coast	5.7	.6	TBWE (1960)
137	Lavaca	Lavaca R	near Edna	8/5–6/1948	9.5	7	5	Gulf Coast	4.48	.472	TBWE (1960)
138	Lavaca	Navidad R	east of Hallettsville (08164300) to SH 111 bridge	12/14–16/1970	64.4	18	12	Gulf Coast	11.1	.172	USGS (1972)
139	Neches	West Fk Bowles Cr—[Bowles Cr]	west of Old London to near Carlisle	10/28/1942	6.5	11	6	Carrizo-Wilcox	3.0	.462	TBWE (1960)
140	Nueces	Atascosa, Frio, and Nueces R	3 mi southwest of Poteet to near Mathis	1/23–26/1951	103.8	29	14	Gulf Coast	4.83	.047	TBWE (1960)
141	Nueces	Atascosa, Frio, and Nueces R	Campbellton to near Mathis	4/19–21/1951	60.2	30	15	Gulf Coast	1.13	.019	TBWE (1960)
142	Nueces	Atascosa, Frio, and Nueces R	Campbellton to near Mathis	4/27–5/1/1951	58.3	23	13	Gulf Coast	-0.22	-0.004	TBWE (1960)
143	Nueces	Dry Frio R	above Real-Uvalde Co line to below Reagan Wells (08196000)	12/16–20/1954	20	24	15	Edwards, Edwards-Trinity (Plateau)	-0.75	-0.038	TBWE (1960)
144	Nueces	Dry Frio R	above Real-Uvalde Co line to below Reagan Wells (08196000)	9/9–13/1955	28	26	20	Edwards, Edwards-Trinity (Plateau)	-2.18	-0.078	TBWE (1960)
145	Nueces	Dry Frio R	above Real-Uvalde Co line to Reagan Wells (08196000)	1/15–20/1958	26.1	35	13	Edwards, Edwards-Trinity (Plateau)	10.01	.384	TBWE (1960)
146	Nueces	Dry Frio R	near Reagan Wells	6/28/1925	15.5	7	6	Edwards, Edwards-Trinity (Plateau)	-1.0	-0.065	TBWE (1960)
147	Nueces	Dry Frio R	Reagan Wells (08196000) to 0.9 mi north of US 90	6/18/1981	24.6	6	6	Edwards	-425.61	-17.301	Land and others (1983)
148	Nueces	East Frio R	11 mi above mouth to mouth	1/5–6/1955	11	12	9	Edwards-Trinity (Plateau)	-7.01	-0.637	TBWE (1960)
149	Nueces	East Frio R	11 mi above mouth to mouth	9/7–9/1955	11	12	9	Edwards-Trinity (Plateau)	-4.11	-0.374	TBWE (1960)
150	Nueces	East Frio R	5.2 mi above mouth to mouth	2/14/1955	5.2	5	4	Edwards-Trinity (Plateau)	-6.95	-1.337	TBWE (1960)
151	Nueces	East Frio R	5.2 mi above mouth to mouth	7/9/1957	5.2	5	4	Edwards-Trinity (Plateau)	-8.49	-1.633	TBWE (1960)

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152	Nueces	East Frio R—[Frio R]	11.8 mi above Leakey to 7 mi below Concan	6/26–28/1925	38.3	24	16	Edwards, Edwards-Trinity (Plateau)	-17.71	-0.462	TBWE (1960)
153	Nueces	East Frio R—[Frio R]	11 mi above Leakey to 3.7 mi below Concan (08195000)	5/17–23/1954	38.5	16	14	Edwards, Edwards-Trinity (Plateau)	1.57	.041	TBWE (1960)
154	Nueces	Frio R	Choke Canyon Reservoir to Shamrock Refinery	11/12–13/1991	8.59	5	4	Gulf Coast	.12	.014	unpublished
155	Nueces	Frio R	Concan (08195000) to near Uvalde (08197500)	9/11/1980	28.4	7	7	Edwards	-200.14	-7.047	Land and others (1983)
156	Nueces	Frio R	Concan (08195000) to near Knippa	11/5–6/1932	18.5	5	5	Edwards	-233.0	-12.595	TBWE (1960)
157	Nueces	Frio R	Concan (08195000) to near Knippa	12/20/1932	18.5	5	5	Edwards	-124.0	-6.703	TBWE (1960)
158	Nueces	Frio R	near Concan	7/1/1931	6	5	5	Edwards	-25.7	-4.283	TBWE (1960)
159	Nueces	Frio R	near Fowlerton to mouth	12/18–21/1967	62.9	13	6	Gulf Coast	10.63	.169	USGS (1969)
160	Nueces	Frio R	Reagan Wells (08196000) to Uvalde (08197500)	4/2/1981	28.4	7	7	Edwards	-259.18	-9.126	Land and others (1983)
161	Nueces	Frio R	Reagan Wells (08196000) to Uvalde (08197500)	5/6/1981	28.4	7	7	Edwards	-229.0	-8.063	Land and others (1983)
162	Nueces	Hondo Cr	near headwaters to US 90	4/5–8/1958	37.2	25	15	Edwards, Trinity	-27.78	-.747	TBWE (1960)
163	Nueces	Hondo Cr	Tarpley (08200000) to 3 mi downstream from US 90	3/27–28/1968	29.5	13	12	Edwards, Trinity	-98.0	-3.322	USGS (1969)
164	Nueces	Hondo Cr	Tarpley (08200000) to Hondo (08200700)	5/27/1981	18.9	6	6	Edwards	-158.1	-8.365	Land and others (1983)
165	Nueces	Leona R	1.7 mi southeast of Uvalde to 0.2 mi east of Zavalla-Frio Co line	2/5–8/1946	49.4	35	32	Carrizo-Wilcox	2.0	.04	TBWE (1960)
166	Nueces	Leona R	1.7 mi southeast of Uvalde to 35 mi southeast of Uvalde	6/11–12/1931	37.5	15	12	Carrizo-Wilcox	-3.1	-.083	TBWE (1960)
167	Nueces	Leona R	1.7 mi southeast of Uvalde to 7.1 mi southeast of Batesville	8/7–9/1946	36.3	22	21	Carrizo-Wilcox	.3	.008	TBWE (1960)
168	Nueces	Leona R	1.7 mi southeast of Uvalde to 9.5 mi southeast of Uvalde	3/1/1947	9.8	5	5	Carrizo-Wilcox	14.91	1.521	TBWE (1960)
169	Nueces	Leona R	1.7 mi southeast of Uvalde to below Batesville	6/21–22/1934	34.6	13	10	Carrizo-Wilcox	-3.1	-.09	TBWE (1960)
170	Nueces	Leona R	1.7 mi southeast of Uvalde to below Batesville	10/18–20/1934	34.6	14	11	Carrizo-Wilcox	2.4	.069	TBWE (1960)
171	Nueces	Leona R	1.7 mi southeast of Uvalde to below Batesville	7/5–6/1939	23	14	11	Carrizo-Wilcox	4.3	.187	TBWE (1960)
172	Nueces	Leona R	1.7 mi southeast of Uvalde to near Batesville	11/7/1932	17	6	4	Carrizo-Wilcox	21.2	1.247	TBWE (1960)
173	Nueces	Leona R	10 mi below Uvalde to below Batesville	6/8–10/1939	26	10	8	Carrizo-Wilcox	-3.8	-.146	TBWE (1960)



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174	Nueces	Leona R	below Kincaid Dam to 9.5 mi southeast of Uvalde	2/19/1946	5.2	7	7	Carrizo-Wilcox	0.7	0.135	TBWE (1960)
175	Nueces	Leona R	Uvalde-Friotown Hwy to near Batesville	4/25–28/1925	33.5	14	11	Carrizo-Wilcox	15.89	.474	TBWE (1960)
176	Nueces	Little Seco Cr	9 mi above mouth to mouth	4/3/1958	9	7	7	Edwards, Trinity	0	0	TBWE (1960)
177	Nueces	Middle Verde and Verde Cr	15.6 mi north of Hondo to 4.5 mi north of Hondo	4/24/1981	16.5	10	8	Edwards, Trinity	-116.0	-7.03	Land and others (1983)
178	Nueces	Middle Verde and Verde Cr	15.6 mi north of Hondo to 4.5 mi north of Hondo	6/17/1981	16.5	10	9	Edwards, Trinity	-161.0	-9.758	Land and others (1983)
179	Nueces	Middle Verde and Verde Cr	15.6 mi north of Hondo to 4.5 mi north of Hondo	9/8/1981	16.5	9	7	Edwards, Trinity	-86.0	-5.212	Land and others (1983)
180	Nueces	Middle Verde and Verde Cr	5.5 mi above East Verde Cr to 4 mi west of Quihi	1/14/1958	19.5	9	6	Edwards, Trinity	-58.3	-2.99	TBWE (1960)
181	Nueces	Middle Verde and Verde Cr	SH 173 on Middle Verde Cr to Vandenburg community	9/8/1980	16.5	11	8	Edwards, Trinity	-86.0	-5.212	USGS (1981)
182	Nueces	Nueces R	above Laguna (08190000) to 4.8 mi southeast of La Pryor	5/2–3/1940	46.9	14	13	Carrizo-Wilcox, Edwards	-63.8	-1.36	TBWE (1960)
183	Nueces	Nueces R	above Laguna (08190000) to 4.8 mi southeast of La Pryor	7/9–10/1940	46.9	14	13	Carrizo-Wilcox, Edwards	-66.7	-1.422	TBWE (1960)
184	Nueces	Nueces R	above Laguna (08190000) to 4.8 mi southeast of La Pryor	8/28–29/1940	46.8	14	13	Carrizo-Wilcox, Edwards	-52.3	-1.118	TBWE (1960)
185	Nueces	Nueces R	above Laguna (08190000) to 4.8 mi southeast of La Pryor	9/26–27/1940	46.9	14	12	Carrizo-Wilcox, Edwards	-27.9	-.595	TBWE (1960)
186	Nueces	Nueces R	Laguna (08190000) to Uvalde (08192000)	8/10/1981	29.4	6	6	Edwards	-24.0	-.816	Land and others (1983)
187	Nueces	Nueces R	Barksdale to Laguna (08190000)	12/13–15/1954	25.2	37	17	Edwards-Trinity (Plateau)	-1.01	-.04	TBWE (1960)
188	Nueces	Nueces R	Barksdale to Laguna (08190000)	9/19–20/1955	25.2	35	19	Edwards-Trinity (Plateau)	15.78	.626	TBWE (1960)
189	Nueces	Nueces R	Barksdale to Laguna (08190000)	7/8–10/1957	25.2	29	17	Edwards-Trinity (Plateau)	18.2	.722	TBWE (1960)
190	Nueces	Nueces R	below Mathis (08211100) to above Calallen (08211200)	2/9/1967	8.4	6	5	Gulf Coast	3.0	.357	USGS (1968)
191	Nueces	Nueces R	below Odley Cr near Vance to La Pryor	3/17–26/1924	74.4	21	18	Carrizo-Wilcox, Edwards, Edwards-Trinity (Plateau)	19.8	.266	TBWE (1960)
192	Nueces	Nueces R	Cotulla (08194000) to Simmons (08194600)	7/28–30/1981	108.1	13	10	Gulf Coast	7.6	.07	USGS (1982a)
193	Nueces	Nueces R	Cotulla (08194000) to Simmons (08194600)	8/11–13/1981	108.1	13	10	Gulf Coast	9.29	.086	USGS (1982a)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
194	Nueces	Nueces R	Laguna (08190000) to 3.8 mi southeast of Cinonia	6/14–30/1939	61.6	27	25	Carrizo-Wilcox, Edwards	-23.7	-0.385	TBWE (1960)
195	Nueces	Nueces R	Laguna (08190000) to 5 mi northeast of La Pryor	11/14–16/1931	39.6	10	10	Carrizo-Wilcox, Edwards	-60.2	-1.52	TBWE (1960)
196	Nueces	Nueces R	Laguna (08190000) to 5 mi northeast of La Pryor	1/24–25/1932	39.6	11	11	Carrizo-Wilcox, Edwards	-59.5	-1.503	TBWE (1960)
197	Nueces	Nueces R	Laguna (08190000) to Cinonia	4/30–5/8/1925	54.9	14	14	Carrizo-Wilcox, Edwards	-29.9	-.545	TBWE (1960)
198	Nueces	Nueces R	Laguna (08190000) to Cinonia	5/16–17/1931	56.5	11	11	Carrizo-Wilcox, Edwards	-76.0	-1.345	TBWE (1960)
199	Nueces	Nueces R	Laguna (08190000) to Cinonia	6/4–6/1931	53	10	10	Carrizo-Wilcox, Edwards	-84.0	-1.585	TBWE (1960)
200	Nueces	Nueces R	Laguna (08190000) to Cinonia	6/15–17/1931	56.5	12	12	Carrizo-Wilcox, Edwards	-73.6	-1.303	TBWE (1960)
201	Nueces	Nueces R	Laguna (08190000) to Cinonia	6/22–24/1931	56.5	12	12	Carrizo-Wilcox, Edwards	-91.9	-1.627	TBWE (1960)
202	Nueces	Nueces R	Laguna (08190000) to Cinonia	7/2–4/1931	56.5	12	12	Carrizo-Wilcox, Edwards	-82.5	-1.46	TBWE (1960)
203	Nueces	Nueces R	Laguna (08190000) to Leona R springflow near Uvalde (08204000)	5/19/1931	22.7	4	4	Edwards	-79.0	-3.48	TBWE (1960)
204	Nueces	Nueces R	Laguna (08190000) to Leona R springflow near Uvalde (08204000)	7/9/1931	22.7	6	6	Edwards	-77.3	-3.405	TBWE (1960)
205	Nueces	Nueces R	Laguna (08190000) to Leona R springflow near Uvalde (08204000)	7/16–17/1931	22.7	6	6	Edwards	-73.0	-3.216	TBWE (1960)
206	Nueces	Nueces R	Laguna (08190000) to near Cinonia	11/1–4/1932	56.5	14	14	Carrizo-Wilcox, Edwards	28.0	.496	TBWE (1960)
207	Nueces	Nueces R	Laguna (08190000) to near Cinonia	7/23–25/1933	56.5	14	14	Carrizo-Wilcox, Edwards	-8.7	-.154	TBWE (1960)
208	Nueces	Nueces R	Laguna (08190000) to SAU&G RR bridge	8/29–30/1931	31.6	8	8	Carrizo-Wilcox, Edwards	-80.2	-2.538	TBWE (1960)
209	Nueces	Nueces R	Mathis (08211000) to Calallen	4/20–22/1948	25.5	18	13	Gulf Coast	-.7	-.027	TBWE (1960)
210	Nueces	Nueces R	Uvalde (08204000) to Cinonia	7/13/1931	33.8	7	7	Carrizo-Wilcox	4.0	.118	TBWE (1960)
211	Nueces	Nueces R	Miller's Ranch to Nueces R at Highway 59	11/12–13/1991	16.45	7	6	Gulf Coast	65.89	4.005	unpublished
212	Nueces	Nueces R	Mathis (08211000) to Calallen Dam	8/28–30/1963	25.8	13	13	Gulf Coast	-15.0	-.581	USGS (1964)
213	Nueces	Nueces R	Mathis (08211000) to Calallen Dam	10/9–10/1963	14.2	7	7	Gulf Coast	-5.0	-.352	USGS (1964)
214	Nueces	Nueces R	Mathis (08211000) to Calallen Dam	2/21–24/1966	20.5	16	12	Gulf Coast	-8.31	-.405	USGS (1967)
215	Nueces	Nueces R	Mathis (08211000) to Calallen Dam	8/16–18/1966	20.5	16	12	Gulf Coast	-4.12	-.201	USGS (1967)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
216	Nueces	Nueces R	near Vance to La Pryor Crossing	8/11–18/1924	66.1	13	12	Carrizo-Wilcox, Edwards, Edwards-Trinity (Plateau)	21.0	0.318	TBWE (1960)
217	Nueces	Nueces R	Old Spanish Trail crossing to Tom Nunn Hill Dam	3/10–11/1924	3.6	3	3	--	26.8	7.444	TBWE (1960)
218	Nueces	Nueces R	Real-Uvalde Co line to Laguna (08190000)	2/16/1955	16.8	4	4	Edwards-Trinity (Plateau)	-1.6	-.095	TBWE (1960)
219	Nueces	Nueces R	US 90 to near Crystal City	11/23–25/1964	52.2	19	10	Carrizo-Wilcox	13.4	.257	USGS (1966)
220	Nueces	Sabinal R	1 mi south of Utopia to 6 mi north of Sabinal	5/7–8/1942	17.5	7	6	Edwards, Trinity	-32.7	-1.869	TBWE (1960)
221	Nueces	Sabinal R	8 mi above Vanderpool to at Sabinal (08198500)	4/8–11/1958	49	30	19	Edwards, Edwards-Trinity (Plateau), Trinity	-31.6	-.645	TBWE (1960)
222	Nueces	Sabinal R	8 mi above Vanderpool to near Sabinal (08198000)	12/15–16/1954	31.4	24	18	Edwards-Trinity (Plateau), Trinity	-1.53	-.049	TBWE (1960)
223	Nueces	Sabinal R	8 mi above Vanderpool to near Sabinal (08198000)	9/10–11/1955	31.4	24	18	Edwards-Trinity (Plateau), Trinity	-1.08	-.034	TBWE (1960)
224	Nueces	Sabinal R	below Utopia	1/10/1934	18	4	4	Trinity	.92	.051	TBWE (1960)
225	Nueces	Sabinal R	confluence with Onion Cr to 6 mi north of Sabinal	5/18/1942	9.5	4	4	Edwards, Trinity	-32.3	-3.4	TBWE (1960)
226	Nueces	Sabinal R	confluence with Onion Cr to 6 mi north of Sabinal	8/5/1942	9.5	4	4	Edwards, Trinity	-6.55	-.689	TBWE (1960)
227	Nueces	Sabinal R	near Sabinal (08198000) to at Sabinal (08198500)	4/2/1981	19.1	4	4	--	-82.2	-4.304	Land and others (1983)
228	Nueces	Sabinal R	near Sabinal (08198000) to at Sabinal (08198500)	8/6/1981	19.1	4	4	--	-91.2	-4.775	Land and others (1983)
229	Nueces	Seco Cr	Miller Ranch (08201500) to D'Hanis (08202700)	6/18/1981	22.9	8	7	Edwards, Trinity	-167.35	-7.308	Land and others (1983)
230	Nueces	Seco Cr	Miller Ranch (08201500) to D'Hanis (08202700)	6/19/1981	22.9	8	7	Edwards, Trinity	-159.2	-6.952	Land and others (1983)
231	Nueces	Seco Cr	Miller Ranch (08201500) to D'Hanis (08202700)	6/22/1981	22.9	8	7	Edwards, Trinity	-170.2	-7.432	Land and others (1983)
232	Nueces	Seco Cr	D'Hanis (08202500) to 17 mi below US 90	11/7/1958	36.3	13	13	--	-97.0	-2.672	TBWE (1960)
233	Nueces	Short Prong Frio R—[Frio R]	16 mi above Leakey to Concan (08195000)	1/4–7/1955	39.5	26	20	Edwards, Edwards-Trinity (Plateau)	10.06	.255	TBWE (1960)
234	Nueces	Short Prong Frio R—[Frio R]	16 mi above Leakey to Concan (08195000)	9/8–10/1955	39.5	28	21	Edwards, Edwards-Trinity (Plateau)	8.54	.216	TBWE (1960)
235	Nueces	West Frio R—[Frio R]	11.6 mi above confluence with East Frio R to Concan (08195000)	7/8–12/1957	35	11	9	Edwards, Edwards-Trinity (Plateau)	30.86	.882	TBWE (1960)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
236	Nueces	West Frio R—[Frio R]	8 mi above Leakey to Concan (08190500)	2/14–18/1955	31.7	7	5	Edwards, Edwards-Trinity (Plateau)	11.59	0.366	TBWE (1960)
237	Nueces	West Nueces R	above Brackettville (08190500) to near Uvalde	5/13/1941	37	5	4	Edwards	-7.1	-.192	TBWE (1960)
238	Nueces	West Nueces R	Blackwater Hole to discontinued station near Brackettville (08190500)	12/13–14/1954	47.7	18	15	Edwards, Edwards-Trinity (Plateau)	-4.95	-.104	TBWE (1960)
239	Nueces	West Nueces R	Blackwater Hole to discontinued station near Brackettville (08190500)	9/11–12/1955	47.7	18	16	Edwards, Edwards-Trinity (Plateau)	-6.95	-.146	TBWE (1960)
240	Nueces	West Nueces R	near Brackettville (08190500) to Shaw Ranch crossing	6/20/1981	38.5	3	2	Edwards	-286.0	-7.429	Land and others (1983)
241	Nueces	West Seco Cr—[Seco Cr]	near Utopia (08202000) to US 90	4/1–4/1958	39	39	21	Edwards, Trinity	-21.04	-.539	TBWE (1960)
242	Nueces	Williams Cr	4.7 mi above mouth to 1,600 feet above Hondo Cr	4/5/1958	4.4	6	3	Trinity	6.36	1.445	TBWE (1960)
243	Red River	Grays Cr	2.6 mi north of Marshall to FM 1997	6/13/1964	3.3	9	2	Carrizo-Wilcox	-.03	-.009	USGS (1966)
244	Red River	Little Cypress Cr	SH 155 to FM 134	6/10–13/1964	49.1	35	10	Carrizo-Wilcox	6.52	.133	USGS (1966)
245	Red River	Little Cypress Cr	northeast of Gilmer to near Jefferson	1/2–3/1964	40.5	7	7	Carrizo-Wilcox	24.09	.595	USGS (1966)
246	Red River	North Fk Wichita R	Truscott (07311700) to 4 mi above Lake Kemp	2/6–7/1974	47.6	6	6	--	-1.3	-.027	USGS (1975)
247	Red River	Prairie Dog Town Fk	Lake Tanglewood to Wayside (07297910)	2/6–9/1968	40.2	68	32	--	1.35	.034	USGS (1969)
248	Red River	South Fk Wichita R	Benjamin (07311800) to 4 mi above Lake Kemp	2/6–7/1974	41	6	5	--	-.8	-.02	USGS (1975)
249	Red River	Sugar Cr	FM 1403 to SH 154	6/10–11/1964	.8	3	2	--	.15	.188	USGS (1966)
250	Red River	Tierra Blanca Cr	near Umbarger to near Canyon	8/31/1941	17.9	8	8	Ogallala	-4.53	-.253	TBWE (1960)
251	Red River	Tierra Blanca Cr	near Umbarger to near Canyon	9/28/1941	17.9	6	6	Ogallala	-2.6	-.145	TBWE (1960)
252	Rio Grande	Big Aguja Canyon	11.8 mi to 2.2 mi above Toyahvale	9/1/1932	9.6	4	3	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-19.2	-2.0	TBWE (1960)
253	Rio Grande	Big Aguja Canyon	11.8 mi to 2.2 mi above Toyahvale	9/3/1932	9.6	4	3	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-26.6	-2.771	TBWE (1960)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

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254	Rio Grande	Big Aguja Canyon	11.8 mi to 2.2 mi above Toyahvale	9/13/1932	9.6	5	3	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-13.6	-1.417	TBWE (1960)
255	Rio Grande	Big Aguja Canyon	11.8 mi to 2.2 mi above Toyahvale	10/6/1932	9.6	11	8	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-15.4	-1.604	TBWE (1960)
256	Rio Grande	Cherry Canyon	1.5 mi above to 2.5 mi below Madera Canyon near Toyahvale (08424500)	9/15/1932	2	2	2	Cenozoic Pecos Alluvium	-13.5	-6.75	TBWE (1960)
257	Rio Grande	Cherry Canyon	1.5 mi above to 2.5 mi below Madera Canyon near Toyahvale (08424500)	9/21/1932	1.5	2	2	Cenozoic Pecos Alluvium	3.8	2.533	TBWE (1960)
258	Rio Grande	Cherry Canyon	1.5 mi above to 2.5 mi below Madera Canyon near Toyahvale (08424500)	10/7/1932	2.5	2	2	Cenozoic Pecos Alluvium	-31.2	-12.48	TBWE (1960)
259	Rio Grande	Devils R	30 mi above Del Rio to mouth	1/26-28/1921	27.2	5	4	Edwards-Trinity (Plateau)	140.0	5.147	TBWE (1960)
260	Rio Grande	Devils R	30 mi above Del Rio to mouth	10/6-7/1921	7.8	4	4	Edwards-Trinity (Plateau)	52.0	6.667	TBWE (1960)
261	Rio Grande	Devils R	Beaver Lake to Juno (08449000)	8/8-13/1925	76	21	17	Edwards-Trinity (Plateau)	426.1	5.607	TBWE (1960)
262	Rio Grande	Devils R	Dolans Cr to near Comstock	2/14-20/1928	22.3	22	13	Edwards-Trinity (Plateau)	91.98	4.125	TBWE (1960)
263	Rio Grande	Devils R	near Comstock to Southern Pacific RR bridge	2/7-11/1928	16.5	30	10	Edwards-Trinity (Plateau)	97.91	5.934	TBWE (1960)
264	Rio Grande	Limpia Cr	11.7 mi to 28.7 mi below Fort Davis	11/21/1932	17	7	7	Edwards-Trinity (Plateau)	-4.0	-.235	TBWE (1960)
265	Rio Grande	Limpia Cr	12.3 mi above to 18.2 mi below Fort Davis	10/18-19/1932	30.5	24	18	Edwards-Trinity (Plateau)	12.5	.41	TBWE (1960)
266	Rio Grande	Limpia Cr	14.7 mi to 40.2 mi below Fort Davis	10/8/1932	25.5	9	6	Edwards-Trinity (Plateau)	-35.5	-1.392	TBWE (1960)
267	Rio Grande	Limpia Cr	15.8 mi to 18.7 mi below Fort Davis	8/3/1933	2.9	3	3	Edwards-Trinity (Plateau)	-12.6	-4.345	TBWE (1960)
268	Rio Grande	Limpia Cr	18.2 mi to 29.2 mi below Fort Davis	11/1/1932	11	5	5	Edwards-Trinity (Plateau)	-8.2	.745	TBWE (1960)
269	Rio Grande	Little Aguja Canyon	11.2 mi to 3 mi above Toyahvale	10/6/1932	8.2	5	4	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-27.0	-3.293	TBWE (1960)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

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270	Rio Grande	Little Aguja Canyon	11.3 mi to 3.9 mi above Toyahvale	9/13/1932	7.4	4	4	Edwards-Trinity (Plateau)	-22.8	-3.081	TBWE (1960)
271	Rio Grande	Little Aguja Canyon	11.3 mi to 7.7 mi above Toyahvale	9/20/1932	3.6	6	6	Edwards-Trinity (Plateau)	-4.1	-1.139	TBWE (1960)
272	Rio Grande	Little Aguja Canyon	11.3 mi to 8.2 mi above Toyahvale	9/14/1932	3.1	2	2	Edwards-Trinity (Plateau)	-11.2	-3.613	TBWE (1960)
273	Rio Grande	Little Aguja Canyon	12.5 mi to 2.2 mi above Toyahvale	9/1/1932	10.3	3	2	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-18.5	-1.796	TBWE (1960)
274	Rio Grande	Little Aguja Canyon	15.5 mi to 2.2 mi above Toyahvale	8/17/1932	13.3	11	10	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-1.7	-.128	TBWE (1960)
275	Rio Grande	Madera Canyon	13.3 mi to 3.5 mi above Toyahvale	9/2/1932	9.8	4	4	Edwards-Trinity (Plateau)	-67.0	-6.837	TBWE (1960)
276	Rio Grande	Madera Canyon	13.3 mi to 3.5 mi above Toyahvale	9/3/1932	9.8	4	4	Edwards-Trinity (Plateau)	-37.3	-3.806	TBWE (1960)
277	Rio Grande	Madera Canyon	13.3 mi to 3.5 mi above Toyahvale	8/27/1933	9.8	3	3	Edwards-Trinity (Plateau)	-17.5	-1.786	TBWE (1960)
278	Rio Grande	Madera Canyon	13.3 mi to 5.1 mi above Toyahvale	9/1/1932	8.2	3	3	Edwards-Trinity (Plateau)	-23.2	-2.829	TBWE (1960)
279	Rio Grande	Madera Canyon	13.3 mi to 5.1 mi above Toyahvale	9/12/1932	8.2	4	3	Edwards-Trinity (Plateau)	-26.7	-3.256	TBWE (1960)
280	Rio Grande	Madera Canyon	13.3 mi to 5.1 mi above Toyahvale	9/15/1932	8.2	3	3	Edwards-Trinity (Plateau)	-14.3	-1.744	TBWE (1960)
281	Rio Grande	Madera Canyon	13.3 mi to 5.1 mi above Toyahvale	9/21/1932	8.2	5	5	Edwards-Trinity (Plateau)	-4.6	-.561	TBWE (1960)
282	Rio Grande	Madera Canyon	13.3 mi to 9.3 mi above Toyahvale	10/6/1932	4	5	4	Edwards-Trinity (Plateau)	-38.8	-9.7	TBWE (1960)
283	Rio Grande	Madera Canyon	13.3 mi to 9.8 mi above Toyahvale	9/24/1932	3.5	5	4	Edwards-Trinity (Plateau)	-6.8	-1.943	TBWE (1960)
284	Rio Grande	PCWID #1 canal system at Fort Stockton	High line canal	11/24/1939	7.4	7	5	Cenozoic Pecos Alluvium	-5.5	-.743	TBWE (1960)
285	Rio Grande	PCWID #1 canal system at Fort Stockton	High line canal	12/14/1939	2.5	3	2	Cenozoic Pecos Alluvium	.4	.16	TBWE (1960)
286	Rio Grande	PCWID #1 canal system at Fort Stockton	lateral #2	12/14/1939	2.4	5	4	Cenozoic Pecos Alluvium	-.4	-.167	TBWE (1960)

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287	Rio Grande	PCWID #1 canal system at Fort Stockton	lateral #3	12/14/1939	1.8	2	2	Cenozoic Pecos Alluvium	0	0	TBWE (1960)
288	Rio Grande	PCWID #1 canal system at Fort Stockton	Seven-D canal	12/14/1939	1.5	4	3	Cenozoic Pecos Alluvium	-1.0	-.667	TBWE (1960)
289	Rio Grande	Pecos R	Angeles (08409500) to Girvin	5/28-30/1918	203	26	18	Cenozoic Pecos Alluvium	-105.5	-.52	TBWE (1960)
290	Rio Grande	Pecos R	Girvin (08446500) to Comstock (IBWC 08447700)	2/6-9/1968	193.6	34	19	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	74.97	.387	USGS (1969)
291	Rio Grande	Pecos R	Orla (08410000) to Girvin (08446500)	3/3-5/1964	188.05	21	11	Cenozoic Pecos Alluvium	-184.8	-.983	USGS (1965)
292	Rio Grande	Pecos R	Orla (08410000) to Girvin (08446500)	5/10-12/1965	188.05	25	16	Cenozoic Pecos Alluvium	8.92	.047	USGS (1966)
293	Rio Grande	Pecos R	Orla (08410000) to Girvin (08446500)	4/17-19/1967	185.5	23	14	Cenozoic Pecos Alluvium	-189.29	-1.02	USGS (1968)
294	Rio Grande	RCWID #1 canal laterals	back lateral	8/29/1940	2.2	4	4	Cenozoic Pecos Alluvium	0	0	TBWE (1960)
295	Rio Grande	RCWID #1 canal laterals	Carpenter takeout	10/27/1931	1	2	2	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-.08	-.08	TBWE (1960)
296	Rio Grande	RCWID #1 canal laterals	Giffin Spring canal	11/18/1931	.8	2	2	Cenozoic Pecos Alluvium	.26	.325	TBWE (1960)
297	Rio Grande	RCWID #1 canal laterals	Greasy Row lateral	9/6/1940	1.5	5	3	Cenozoic Pecos Alluvium	-.02	-.013	TBWE (1960)
298	Rio Grande	RCWID #1 canal laterals	Halbert corner lateral	8/29/1940	1.6	7	4	Cenozoic Pecos Alluvium	.15	.094	TBWE (1960)
299	Rio Grande	RCWID #1 canal laterals	highway ditch	10/27/1931	1.3	4	3	Cenozoic Pecos Alluvium	.43	.331	TBWE (1960)
300	Rio Grande	RCWID #1 canal laterals	Humphrey-Mayer lateral	8/28/1940	.7	4	4	Cenozoic Pecos Alluvium	.12	.171	TBWE (1960)
301	Rio Grande	RCWID #1 canal laterals	Ikens Estate lateral	8/29/1940	.2	2	2	Cenozoic Pecos Alluvium	-.96	-4.8	TBWE (1960)
302	Rio Grande	RCWID #1 canal laterals	Moore canal	11/16/1931	.5	2	2	Cenozoic Pecos Alluvium	.06	.12	TBWE (1960)
303	Rio Grande	RCWID #1 canal laterals	north lateral	7/2/1940	4	6	5	Cenozoic Pecos Alluvium	-.44	-.11	TBWE (1960)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
304	Rio Grande	RCWID #1 canal laterals	north lateral	8/28/1940	4	9	7	Cenozoic Pecos Alluvium	-0.26	-0.065	TBWE (1960)
305	Rio Grande	RCWID #1 canal laterals	reservoir takeout	10/27/1931	1	2	2	Cenozoic Pecos Alluvium	-.5	-.5	TBWE (1960)
306	Rio Grande	RCWID #1 canal laterals	Saragosa canal	11/16/1931	.5	2	2	Cenozoic Pecos Alluvium	-.29	-.58	TBWE (1960)
307	Rio Grande	RCWID #1 canal laterals	siphon ditch	10/28/1931	2.3	2	2	Cenozoic Pecos Alluvium	-3.13	-1.361	TBWE (1960)
308	Rio Grande	RCWID #1 canal system	below San Solomon Springs to above Balmorhea Reservoir	2/6-7/1935	3.7	7	5	Cenozoic Pecos Alluvium	5.9	1.595	TBWE (1960)
309	Rio Grande	RCWID #1 main canal	above first diversion to sixth diversion, near Balmorhea	4/26-27/1923	8.85	8	4	Cenozoic Pecos Alluvium	-12.41	-1.402	TBWE (1960)
310	Rio Grande	RCWID #1 main canal	headgate to Barlow diversion, near Balmorhea	7/27/1922	5.5	8	3	Cenozoic Pecos Alluvium	-7.0	-1.273	TBWE (1960)
311	Rio Grande	RCWID #1 main canal	headgate to last diversion, near Balmorhea	9/25-26/1923	6.3	12	6	Cenozoic Pecos Alluvium	-2.96	-.47	TBWE (1960)
312	Rio Grande	RCWID #1 main canal	source to 2.9 mi below source	3/14/1933	2.9	4	2	Cenozoic Pecos Alluvium	-.2	-.069	TBWE (1960)
313	Rio Grande	RCWID #1 main canal	source to end	10/27-28/1931	11.4	19	5	Cenozoic Pecos Alluvium	-6.38	-.56	TBWE (1960)
314	Rio Grande	RCWID #1 main canal	source to end	1/11-12/1933	9.3	13	7	Cenozoic Pecos Alluvium	-3.9	-.419	TBWE (1960)
315	Rio Grande	RCWID #1 main canal	source to end	3/13/1933	9.3	11	7	Cenozoic Pecos Alluvium	7.1	.763	TBWE (1960)
316	Rio Grande	RCWID #1 reservoir outlet canal	reservoir to main canal	7/22/1932	3.4	3	2	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-3.8	-1.118	TBWE (1960)
317	Rio Grande	RCWID #1 reservoir outlet canal	reservoir to main canal	7/26/1932	3.4	6	5	Cenozoic Pecos Alluvium, Edwards-Trinity (Plateau)	-.3	-.088	TBWE (1960)
318	Rio Grande	RCWID #1 reservoir outlet canal	reservoir to main canal	8/17/1932	2.5	3	3	Cenozoic Pecos Alluvium	-.2	-.08	TBWE (1960)
319	Rio Grande	RCWID #1 reservoir outlet canal	reservoir to main canal	7/20/1933	2.9	2	2	Cenozoic Pecos Alluvium	-2.6	-.897	TBWE (1960)
320	Rio Grande	RCWID #1 reservoir outlet canal	reservoir to main canal	7/26/1933	2.7	2	2	Cenozoic Pecos Alluvium	-1.2	-.444	TBWE (1960)
321	Rio Grande	Rio Grande	Comal to Indio Ranch	1/13-3/18/1928	34	3	3	--	90.0	2.647	TBWE (1960)
322	Rio Grande	Rio Grande	Del Rio to Eagle Pass	2/9-3/3/1926	64	10	4	Edwards-Trinity (Plateau)	116.0	1.813	TBWE (1960)



**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
323	Rio Grande	Rio Grande	Eagle Pass to Indio Ranch	1/12–4/12/1928	18	2	2	--	55.0	3.056	TBWE (1960)
324	Rio Grande	Rio Grande	Eagle Pass to Indio Ranch	2/2–3/14/1928	18	3	3	--	55.0	3.056	TBWE (1960)
325	Rio Grande	Rio Grande	Eagle Pass to Laredo	2/22–4/12/1928	128	6	6	--	-10.0	-.078	TBWE (1960)
326	Rio Grande	Rio Grande	Eagle Pass to Laredo	2/22–4/22/1928	128	2	2	--	-25.0	-.195	TBWE (1960)
327	Rio Grande	Rio Grande	Eagle Pass to Laredo	4/3–22/1928	128	6	6	--	-75.0	-.586	TBWE (1960)
328	Rio Grande	Rio Grande	Eagle Pass to San Ygnacio	2/12–22/1926	167.5	22	17	Carrizo-Wilcox	-336.0	-2.006	TBWE (1960)
329	Rio Grande	Rio Grande	Elephant Butte—Mesilla Valley Unit, East Canal near Anthony	4/21/1971	2.51	4	3	Hueco-Mesilla Bolson	-3.1	-1.235	USGS (1972)
330	Rio Grande	Rio Grande	Elephant Butte—Mesilla Valley Unit, Franklin Canal below Ysleta	4/22/1971	2	3	3	Hueco-Mesilla Bolson	-.6	-.3	USGS (1972)
331	Rio Grande	Rio Grande	Elephant Butte—Mesilla Valley Unit, Franklin Drain below Sorocco	4/22/1971	2.4	3	3	Hueco-Mesilla Bolson	2.3	.958	USGS (1972)
332	Rio Grande	Rio Grande	Elephant Butte—Mesilla Valley Unit, Nemexas Drain near Anthony	4/21/1971	2	3	3	Hueco-Mesilla Bolson	1.81	.905	USGS (1972)
333	Rio Grande	Rio Grande	Elephant Butte—Mesilla Valley Unit, West Canal near Anthony	4/21/1971	2.7	4	3	Hueco-Mesilla Bolson	-6.21	-2.3	USGS (1972)
334	Rio Grande	Rio Grande	Elephant Butte—Mesilla Valley Unit, West Drain near Anthony	4/21/1971	1.8	3	3	Hueco-Mesilla Bolson	5.0	2.778	USGS (1972)
335	Rio Grande	Rio Grande	Lajitas to Del Rio	2/7–20/1925	293.1	11	8	Edwards-Trinity (Plateau)	783.0	2.671	TBWE (1960)
336	Rio Grande	Toyah Cr	1.2 mi above to 8.8 mi below Toyahvale	11/6/1932	7.8	6	4	Cenozoic Pecos Alluvium	5.2	.667	TBWE (1960)
337	Rio Grande	Toyah Cr	1.2 mi above to 8.8 mi below Toyahvale	1/23/1933	5.8	5	4	Cenozoic Pecos Alluvium	2.3	.397	TBWE (1960)
338	Rio Grande	Toyah Cr	1.2 mi above to 8.8 mi below Toyahvale	3/14/1933	10	8	5	Cenozoic Pecos Alluvium	2.3	.23	TBWE (1960)
339	Rio Grande	Toyah Cr	1.2 mi above to 8.8 mi below Toyahvale	5/16/1933	5.8	7	4	Cenozoic Pecos Alluvium	4.9	.845	TBWE (1960)
340	Rio Grande	Toyah Cr	1.2 mi above to 8.8 mi below Toyahvale	7/11/1933	5.8	7	4	Cenozoic Pecos Alluvium	4.9	.845	TBWE (1960)
341	Rio Grande	West Sandia Cr	above East Sandia Spring at Balmorhea (08430000)	10/17/1932	.76	4	3	Cenozoic Pecos Alluvium	1.9	2.5	TBWE (1960)
342	Sabine	Lake Fk Cr	SH 182 to US 80	8/31–9/1/1981	1.6	3	3	Carrizo-Wilcox	-2.6	-1.625	USGS (1982b)
343	Sabine	Sabine and Old R	Ruliff (08030500) to IH-10	10/31–11/2/1966	5.3	4	2	Gulf Coast	27.0	5.094	USGS (1968)
344	Sabine	Sabine and Old R	Ruliff (08030500) to IH-10	9/12–13/1967	5.3	4	3	Gulf Coast	-206.0	-38.868	USGS (1968)
345	Sabine	Sabine R	FM 1804 to FM 2517	9/22–24/1981	156.4	11	10	Carrizo-Wilcox	127.8	.817	USGS (1982b)

**Table 1.** Characteristics of flow gain-loss studies in Texas—Continued

Stream-flow study no.	Major river basin	Stream name	Reach identification	Date of study	Reach length (river mi)	Total no. of measurement sites	No. of measurement sites on main channel	Major aquifer outcrop(s) intersected by reach	Total gain or loss (-) in reach (ft <sup>3</sup> /s)	Gain or loss per mile of reach (ft <sup>3</sup> /s-mi)	Reference for data
346	Sabine	Sabine R	Wills Point (08017410) to Smith-Upshur Co line at county road crossing	8/31–9/2/1981	80.5	8	6	Carrizo-Wilcox	427.42	5.31	USGS (1982b)
347	Sabine	Sabine R	northeast of Carthage to Ruliff (08030500)	9/4–5/1963	268	98	30	Carrizo-Wilcox, Gulf Coast	208.72	.779	USGS (1964)
348	San Antonio	Cibolo Cr	7.5 mi above Boerne to gaging station at Selma (08185000)	1/17–30/1958	56	27	19	Edwards, Trinity	–89.2	–1.593	TBWE (1960)
349	San Antonio	Cibolo Cr	near Randolph AFB to mouth	3/5–7/1963	79.3	18	13	Carrizo-Wilcox, Gulf Coast	16.68	.21	USGS (1964)
350	San Antonio	Cibolo Cr	Selma (08185000) to mouth	3/4–8/1968	87.1	52	27	Carrizo-Wilcox, Gulf Coast	59.53	.683	USGS (1969)
351	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/26/1998	3.15	2	2	Edwards, Trinity	–60.4	–19.175	unpublished
352	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/26/1998	3.15	2	2	Edwards, Trinity	–66.0	–20.952	unpublished
353	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/27/1998	3.15	2	2	Edwards, Trinity	–61.6	–19.556	unpublished
354	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/28/1998	7.21	3	3	Edwards, Trinity	–98.8	–13.703	unpublished
355	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/28/1998	7.21	3	3	Edwards, Trinity	–83.5	–11.581	unpublished
356	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/29/1998	7.21	3	3	Edwards, Trinity	–56.4	–7.822	unpublished
357	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/29/1998	7.21	3	3	Edwards, Trinity	–60.7	–8.419	unpublished
358	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/30/1998	3.15	2	2	Edwards, Trinity	–29.4	–9.333	unpublished
359	San Antonio	Salado Cr	Wilderness Rd (08178585) to Old Blanco Rd (08178593)	10/30/1998	7.21	3	3	Edwards, Trinity	–45.0	–6.241	unpublished
360	San Antonio	San Antonio R	Hildebrand Ave to San Pedro Cr mouth	7/17/1957	8	14	10	--	12.13	1.516	TBWE (1960)
361	San Antonio	San Antonio R	San Pedro Cr to Ashley St Bridge	10/27/1999	17.54	6	5	Carrizo-Wilcox	9.4	.536	unpublished
362	San Jacinto	East Fk San Jacinto R	Cleveland (08070000) to upstream from Lake Houston	6/24/1969	18	9	5	Gulf Coast	4.2	.233	USGS (1970)
363	San Jacinto	West Fk San Jacinto R	northwest of Conroe to above Lake Houston	6/24/1969	37.3	22	10	Gulf Coast	9.82	.263	USGS (1970)
364	Trinity	Big Elkhart Cr	northwest of Grapeland to mouth	9/15–16/1965	25.7	9	7	--	5.18	.202	USGS (1966)
365	Trinity	Little Elkhart Cr	south of Grapeland to mouth	9/16/1965	17.5	11	5	--	–1.59	–.091	USGS (1966)
366	Trinity	Trinity R	Riverside to Liberty	11/4–8/1952	133.5	21	5	Gulf Coast	37.16	.278	TBWE (1960)

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas

[mi<sup>2</sup>, square miles; R, River; --, not applicable; Cr, Creek; nr, near; Fork, Fk; trib, tributary; FTW, Fort Worth]

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Arkansas R Basin (Canadian R)</b>												
07227000	Canadian R at Logan, NM	35°21'25"	103°25'03"	Quay	10,000	--	81	19	62	1904	1939	2000
07227100	Revuelto Cr nr Logan, NM	35°20'29"	103°23'37"	Quay	786	--	41	41	0	1960	--	2000
07227448	Punta De Agua Cr nr Channing, TX	35°40'03"	102°28'48"	Hartley	3,570	--	6	0	6	--	1968	1973
07227470	Canadian R at Tascosa, TX	35°31'08"	102°15'35"	Oldham	14,710	--	9	9	0	1969	--	1977
07227500	Canadian R nr Amarillo, TX	35°28'13"	101°52'45"	Potter	15,400	--	62	0	62	--	1939	2000
07227920	Dixon Cr nr Borger, TX	35°39'53"	101°21'02"	Hutchinson	134	--	15	15	0	1975	--	1989
07228000	Canadian R nr Canadian, TX	35°56'06"	100°22'13"	Hemphill	18,200	--	62	25	37	1939	1964	2000
07233500	Palo Duro Cr nr Spearman, TX	36°12'08"	101°18'20"	Hansford	440	--	35	35	0	1946	--	2000
07235000	Wolf Cr at Lipscomb, TX	36°14'19"	100°16'31"	Lipscomb	475	--	41	2	39	1941	1962	2000
<b>Red R Basin</b>												
07295500	Tierra Blanca Cr above Buffalo Lake nr Umbarger, TX	34°50'55"	102°10'32"	Deaf Smith	538	--	20	20	0	1941	--	1973
07296100	Tierra Blanca Cr below Buffalo Lake nr Umbarger, TX	34°55'27"	102°05'57"	Randall	2,080	--	6	0	6	--	1968	1973
07297500	Prairie Dog Town Fk Red R nr Canyon, TX	35°00'38"	101°53'29"	Randall	711	--	13	1	12	1925	1926	1949
07297910	Prairie Dog Town Fk Red R nr Wayside, TX	34°50'15"	101°24'49"	Armstrong	930	--	33	33	0	1968	--	2000
07298000	North Tule Draw at reservoir nr Tulia, TX	34°33'34"	101°42'33"	Swisher	65.0	--	32	32	0	1942	--	1973
07298200	Tule Cr nr Silverton, TX	34°32'36"	101°25'46"	Briscoe	190	--	22	9	13	1965	1974	1986
07298500	Prairie Dog Town Fk Red R nr Brice, TX	34°37'40"	100°56'25"	Hall	1,580	--	7	7	0	1940	--	1962
07299000	Mulberry Cr nr Brice, TX	34°40'30"	100°55'00"	Hall	534	--	1	1	0	1950	--	1950
07299200	Prairie Dog Town Fk Red R nr Lakeview, TX	34°34'23"	100°44'43"	Hall	2,020	--	17	16	1	1964	1980	1980
07299300	Little Red R nr Turkey, TX	34°32'27"	100°46'13"	Hall	139	--	13	13	0	1969	--	1981
07299500	Prairie Dog Town Fk Red R nr Estelline, TX	34°34'20"	100°26'10"	Hall	2,520	--	9	9	0	1925	--	1946
07299512	Jonah Cr at weir nr Estelline, TX	34°34'20"	100°20'00"	Childress	65.5	--	8	8	0	1975	--	1982
07299514	Jonah Cr below weir nr Estelline, TX	34°33'33"	100°20'21"	Childress	66.6	--	2	2	0	1975	--	1976
07299530	Salt Cr nr Estelline, TX	34°35'26"	100°15'08"	Childress	142	--	4	4	0	1975	--	1978
07299540	Prairie Dog Town Fk Red R nr Childress, TX	34°34'09"	100°11'37"	Childress	2,960	--	35	13	22	1966	1979	2000
07299570	Red R nr Quanah, TX	34°24'47"	99°44'03"	Hardeman	3,550	--	22	18	4	1961	1979	1982
07299670	Groesbeck Cr at SH 6 nr Quanah, TX	34°21'16"	99°44'24"	Hardeman	303	--	38	38	0	1963	--	2000
07299850	Salt Fk Red R nr Clarendon, TX	35°00'10"	100°53'30"	Donley	457	--	4	4	0	1961	--	1964
07299890	Lelia Lake Cr below Bell Cr nr Hedley, TX	34°56'08"	100°41'46"	Donley	74	--	3	3	0	2000	--	2000
07300000	Salt Fk Red R nr Wellington, TX	34°57'27"	100°13'14"	Collingsworth	1,010	--	48	15	33	1953	1968	2000
07300500	Salt Fk Red R at Mangum, OK	34°51'30"	99°30'30"	Greer	1,360	--	63	63	0	1938	--	2000
07301200	McClellan Cr nr McLean, TX	35°19'45"	100°36'32"	Gray	460	--	13	0	13	--	1968	1980

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Red R Basin—Continued</b>												
07301300	North Fk Red R nr Shamrock, TX	35°15'51"	100°14'29"	Wheeler	703	--	27	27	0	1965	--	1991
07301410	Sweetwater Cr nr Kelton, TX	35°28'23"	100°07'14"	Wheeler	267	--	38	38	0	1963	--	2000
07307500	Quitaque Cr nr Quitaque, TX	34°14'24"	101°07'03"	Floyd	35.0	--	14	14	0	1946	--	1959
07307600	North Pease R nr Childress, TX	34°16'30"	100°17'05"	Cottle	1,430	--	6	6	0	1974	--	1979
07307750	Middle Pease R nr Paducah, TX	34°12'31"	100°18'03"	Cottle	1,020	--	6	6	0	1974	--	1979
07307760	Middle Pease R nr Paducah, TX	34°11'28"	100°12'38"	Cottle	1,060	--	3	3	0	1980	--	1982
07307800	Pease R nr Childress, TX	34°13'39"	100°04'24"	Cottle	2,200	--	35	35	0	1961	--	2000
07308000	Pease R nr Crowell, TX	34°05'45"	99°43'47"	Foard	2,480	--	20	20	0	1925	--	1946
07308200	Pease R nr Vernon, TX	34°10'45"	99°16'40"	Wilbarger	2,930	--	30	30	0	1961	--	2000
07308500	Red R nr Burkburnett, TX	34°06'36"	98°31'53"	Wichita	14,600	--	40	40	0	1961	--	2000
07311600	North Wichita R nr Paducah, TX	33°57'02"	100°03'52"	Cottle	540	--	27	27	0	1962	--	2000
07311622	North Fk Wichita R nr Crowell, TX	33°52'12"	99°56'48"	Foard	591	--	6	6	0	1971	--	1976
07311630	Middle Wichita R nr Guthrie, TX	33°47'45"	100°04'29"	King	50.3	--	4	4	0	1997	--	2000
07311648	Middle Fk Wichita R nr Truscott, TX	33°51'12"	99°57'44"	Foard	161	--	6	6	0	1971	--	1976
07311700	North Wichita R nr Truscott, TX	33°49'14"	99°47'10"	Knox	937	--	40	40	0	1961	--	2000
07311780	South Fk Wichita R nr Guthrie, TX	33°37'29"	100°13'04"	King	239	--	6	6	0	1971	--	1976
07311782	South Wichita R at low flow dam nr Guthrie, TX	33°37'19"	100°12'31"	King	223	--	14	14	0	1985	--	2000
07311783	South Wichita R below low flow dam nr Guthrie, TX	33°37'19"	100°12'31"	King	223	--	15	15	0	1986	--	2000
07311790	South Wichita R at Ross Ranch nr Benjamin, TX	33°39'18"	100°00'49"	King	499	--	9	9	0	1971	--	1979
07311800	South Wichita R nr Benjamin, TX	33°38'39"	99°48'02"	Knox	584	--	40	40	0	1961	--	2000
07311900	Wichita R nr Seymour, TX	33°42'01"	99°23'18"	Baylor	1,870	--	23	23	0	1961	--	2000
07312100	Wichita R nr Mabelle, TX	33°45'36"	99°08'33"	Baylor	2,090	--	41	0	41	--	1960	2000
07312130	Wichita R at SH 25 nr Kamay, TX	33°52'09"	98°50'20"	Wichita	2,182	--	4	0	4	--	1997	2000
07312200	Beaver Cr nr Electra, TX	33°54'21"	98°54'17"	Wichita	652	--	40	0	40	--	1961	2000
07312500	Wichita R at Wichita Falls, TX	33°54'34"	98°32'00"	Wichita	3,140	--	62	0	62	--	1939	2000
07312700	Wichita R nr Charlie, TX	34°03'11"	98°17'47"	Clay	3,440	--	33	0	33	--	1968	2000
07314500	Little Wichita R nr Archer City, TX	33°39'45"	98°36'46"	Archer	481	--	57	13	44	1933	1946	2000
07314900	Little Wichita R above Henrietta, TX	33°49'36"	98°14'23"	Clay	1,040	--	47	13	34	1954	1967	2000
07315200	East Fk Little Wichita R nr Henrietta, TX	33°48'46"	98°05'05"	Clay	178	--	36	29	7	1965	1994	2000
07315400	Little Wichita R nr Ringgold, TX	33°53'55"	98°04'05"	Montague	1,350	--	6	0	6	--	1960	1965
07315500	Red R nr Terrall, OK	33°52'43"	97°56'03"	Jefferson	22,800	--	62	0	62	--	1938	2000
07316000	Red R nr Gainesville, TX	33°43'40"	97°09'35"	Cooke	24,800	--	60	6	54	1937	1943	1996
07316200	Mineral Cr nr Sadler, TX	33°42'08"	96°50'51"	Grayson	26.0	--	8	8	0	1969	--	1976

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Red R Basin—Continued</b>												
07331600	Red R at Denison Dam nr Denison, TX	33°49'08"	96°33'47"	Grayson	33,800	--	69	19	50	1924	1944	2000
07332600	Bois d'Arc Cr nr Randolph, TX	33°28'32"	96°12'52"	Fannin	72.0	--	22	22	0	1964	--	1985
07335400	Sanders Cr nr Chicota, TX	33°51'09"	95°32'40"	Lamar	175	--	19	0	19	--	1968	1986
07335500	Red R at Arthur City, TX	33°52'32"	95°30'06"	Lamar	38,600	--	69	13	57	1906	1944	2000
07336750	Little Pine Cr nr Kanawha, TX	33°50'26"	95°15'55"	Red R	75.4	--	11	11	0	1970	--	1980
07336800	Pecan Bayou nr Clarksville, TX	33°41'07"	94°59'41"	Red R	100	--	15	15	0	1963	--	1977
07336820	Red R nr De Kalb, TX	33°40'59"	94°41'39"	Bowie	41,400	--	31	0	31	--	1968	1998
07337000	Red R at Index, Arkansas	33°33'07"	94°02'28"	Miller	42,100	--	64	7	57	1937	1944	2000
07342465	South Sulphur R at Commerce, TX	33°12'42"	95°54'50"	Hunt	150	--	9	9	0	1992	--	2000
07342470	South Sulphur R nr Commerce, TX	33°13'11"	95°51'45"	Hunt	189	--	12	12	0	1980	--	1991
07342480	Middle Sulphur R at Commerce, TX	33°15'59"	95°54'55"	Hunt	44.1	--	9	9	0	1992	--	2000
07342500	South Sulphur R nr Cooper, TX	33°21'23"	95°35'41"	Delta	527	--	58	49	9	1943	1992	2000
07343000	North Sulphur R nr Cooper, TX	33°28'29"	95°35'15"	Lamar	276	--	51	51	0	1950	--	2000
07343200	Sulphur R nr Talco, TX	33°23'26"	95°03'44"	Titus	1,370	--	44	35	9	1957	1992	2000
07343300	Cuthand Cr nr Bogata, TX	33°32'51"	95°10'22"	Red R	69.0	--	11	11	0	1964	--	1974
07343500	White Oak Cr nr Talco, TX	33°19'20"	95°05'33"	Titus	494	--	50	22	28	1951	1973	2000
07344000	Sulphur R nr Darden, TX	33°15'00"	94°37'00"	Bowie	2,770	--	33	33	0	1924	--	1956
07344210	Sulphur R nr Texarkana, TX	33°18'20"	94°09'03"	Bowie	3,440	--	6	0	6	--	1980	1985
07344482	Big Cypress Cr nr Winnsboro, TX	33°01'24"	95°16'12"	Franklin	27.2	--	17	0	17	--	1975	1991
07344486	Brushy Cr at Scroggins, TX	32°58'32"	95°11'03"	Franklin	23.4	--	22	22	0	1979	--	2000
07344500	Big Cypress Cr nr Pittsburg, TX	33°01'15"	94°52'55"	Camp	366	--	41	21	20	1944	1970	1989
07345000	Boggy Cr nr Daingerfield, TX	33°02'10"	94°47'15"	Morris	72.0	--	34	34	0	1944	--	1977
07346000	Big Cypress Cr nr Jefferson, TX	32°44'58"	94°29'55"	Marion	850	--	56	33	23	1925	1958	2000
07346045	Black Cypress Bayou at Jefferson, TX	32°46'40"	94°21'26"	Marion	365	--	32	32	0	1969	--	2000
07346050	Little Cypress Cr nr Ore City, TX	32°40'21"	94°45'03"	Upshur	383	--	36	36	0	1964	--	1999
07346070	Little Cypress Cr nr Jefferson, TX	32°42'46"	94°20'45"	Marion	675	--	54	54	0	1947	--	2000
07346140	Frazier Cr nr Linden, TX	33°03'14"	94°17'24"	Cass	48.0	--	26	26	0	1966	--	1991
<b>Sabine R Basin</b>												
08017200	Cowleech Fk Sabine R at Greenville, TX	33°07'58"	96°04'36"	Hunt	77.7	--	41	41	0	1960	--	2000
08017300	South Fk Sabine R nr Quinlan, TX	32°53'52"	96°15'11"	Hunt	78.7	--	41	41	0	1960	--	2000
08017410	Sabine R nr Wills Point, TX	32°48'22"	95°55'09"	Van Zandt	756	--	30	0	30	--	1971	2000
08017500	Sabine R nr Emory, TX	32°46'23"	95°47'56"	Rains	888	--	21	8	13	1953	1961	1973
08018200	Grand Saline Cr nr Grand Saline, TX	32°40'20"	95°36'36"	Van Zandt	91.4	--	5	5	0	1969	--	1973

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Sabine R Basin—Continued</b>												
08018500	Sabine R nr Mineola, TX	32°36'49"	95°29'08"	Wood	1,360	--	53	20	33	1940	1968	2000
08018730	Burke Cr nr Yantis, TX	32°59'26"	95°37'18"	Hopkins	33.1	--	11	11	0	1979	--	1989
08019000	Lake Fk Cr nr Quitman, TX	32°45'47"	95°27'46"	Wood	585	--	62	41	21	1925	1980	2000
08019200	Sabine R nr Hawkins, TX	32°33'35"	95°12'23"	Wood	2,259	--	3	0	3	--	1998	2000
08019500	Big Sandy Cr nr Big Sandy, TX	32°36'14"	95°05'29"	Upshur	231	--	61	23	38	1940	1963	2000
08020000	Sabine R nr Gladewater, TX	32°31'37"	94°57'36"	Gregg	2,790	--	68	28	40	1933	1961	2000
08020200	Prairie Cr nr Gladewater, TX	32°28'45"	94°57'14"	Gregg	48.9	--	8	8	0	1969	--	1976
08020500	Sabine R nr Longview, TX	32°28'00"	94°46'50"	Gregg	2,950	--	8	8	0	1925	--	1932
08020700	Rabbit Cr at Kilgore, TX	32°23'17"	94°54'11"	Gregg	75.8	--	13	13	0	1964	--	1976
08020900	Sabine R below Longview, TX	32°25'00"	94°42'35"	Gregg	3,160	--	5	0	5	--	1996	2000
08020960	Mill Cr nr Henderson, TX	32°14'02"	94°46'54"	Rusk	20.3	--	3	3	0	1979	--	1981
08020980	Mill Cr nr Longview, TX	32°18'18"	94°43'41"	Rusk	47.9	--	3	3	0	1979	--	1981
08020990	Tiawichi Cr nr Longview, TX	32°19'14"	94°43'57"	Rusk	62.7	--	3	3	0	1979	--	1981
08021000	Cherokee Bayou nr Eldersville, TX	32°20'00"	94°42'00"	Gregg	120	--	9	9	0	1940	--	1948
08022040	Sabine R nr Beckville, TX	32°19'38"	94°21'12"	Panola	3,590	--	62	22	40	1939	1961	2000
08022070	Martin Cr nr Tatum, TX	32°17'44"	94°29'29"	Panola	148	--	22	0	22	--	1975	1996
08022300	Murvaul Bayou nr Gary, TX	32°02'54"	94°22'31"	Panola	134	--	25	0	25	--	1959	1983
08022400	Socagee Cr nr Carthage, TX	32°13'54"	94°05'31"	Panola	82.6	--	11	11	0	1963	--	1973
08022500	Sabine R at Logansport, LA	31°58'20"	94°00'22"	Shelby	4,840	--	64	57	7	1904	1961	1967
08023200	Tenaha Cr nr Shelbyville, TX	31°45'56"	94°05'02"	Shelby	97.8	--	28	28	0	1953	--	1980
08024400	Sabine R nr Milam, TX	31°28'01"	93°44'41"	Sabine	6,510	--	29	22	7	1924	1960	1966
08024500	Palo Gaucho Bayou nr Hemphill, TX	31°23'10"	93°50'08"	Sabine	123	--	13	13	0	1953	--	1965
08025307	Mill Cr nr Burkeville, TX	31°09'23"	93°40'35"	Newton	18.0	--	5	5	0	1975	--	1979
08025360	Sabine R at Toledo Bend Reservoir nr Burkeville, TX	31°10'25"	93°33'57"	Newton	7,180	--	29	0	29	--	1972	2000
08026000	Sabine R nr Burkeville, TX	31°03'50"	93°31'10"	Newton	7,480	--	45	10	35	1956	1966	2000
08028500	Sabine R nr Bon Wier, TX	30°44'49"	93°36'30"	Newton	8,230	--	77	42	35	1924	1966	2000
08029500	Big Cow Cr nr Newton, TX	30°49'08"	93°47'07"	Newton	128	--	48	48	0	1953	--	2000
08030000	Cypress Cr nr Buna, TX	30°25'52"	93°54'28"	Jasper	69.2	--	31	31	0	1953	--	1983
08030500	Sabine R nr Ruliff, TX	30°18'13"	93°44'37"	Newton	9,330	--	76	42	34	1925	1967	2000
08031000	Cow Bayou nr Mauriceville, TX	30°11'10"	93°54'30"	Orange	83.3	--	34	34	0	1953	--	1986
<b>Neches R Basin</b>												
08031200	Kickapoo Cr nr Brownsboro, TX	32°18'34"	95°36'19"	Henderson	232	--	27	27	0	1963	--	1989
08031500	Neches R nr Reese, TX	32°01'30"	95°25'40"	Cherokee	851	--	3	3	0	1925	--	1927

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Neches R Basin—Continued</b>												
08032000	Neches R nr Neches, TX	31°53'32"	95°25'50"	Anderson	1,150	--	61	22	39	1940	1962	2000
08032500	Neches R nr Alto, TX	31°34'45"	95°09'55"	Cherokee	1,950	--	34	17	17	1945	1962	1978
08033000	Neches R nr Diboll, TX	31°07'58"	94°48'35"	Polk	2,720	--	48	24	24	1924	1962	1985
08033300	Piney Cr nr Groveton, TX	31°08'25"	95°05'11"	Trinity	79.0	--	28	28	0	1962	--	1989
08033500	Neches R nr Rockland, TX	31°01'29"	94°23'55"	Tyler	3,640	--	95	56	39	1904	1962	2000
08033700	Striker Cr nr Summerfield, TX	32°00'10"	94°59'35"	Cherokee	146	--	9	9	0	1941	--	1949
08033900	East Fk Angelina R nr Cushing, TX	31°51'36"	94°49'23"	Rusk	158	--	25	25	0	1965	--	1989
08034500	Mud Cr nr Jacksonville, TX	31°58'35"	95°09'38"	Cherokee	376	--	40	9	31	1940	1949	1979
08035000	Mud Cr at Ponta, TX	31°53'21"	95°05'19"	Cherokee	475	--	3	3	0	1925	--	1927
08036500	Angelina R nr Alto, TX	31°40'10"	94°57'24"	Cherokee	1,280	--	42	1	41	1943	1960	2000
08037000	Angelina R nr Lufkin, TX	31°27'26"	94°43'34"	Angelina	1,600	--	51	28	23	1924	1957	1979
08037050	Bayou LaNana at Nacogdoches, TX	31°36'58"	94°38'28"	Nacogdoches	31.3	--	27	27	0	1965	--	1993
08037500	Arenoso Cr nr San Augustine, TX	31°35'48"	94°16'06"	San Augustine	75.3	--	2	2	0	1939	--	1940
08038000	Attoyac Bayou nr Chireno, TX	31°30'15"	94°18'15"	Nacogdoches	503	--	46	46	0	1925	--	1985
08038500	Angelina R nr Zavalla, TX	31°12'41"	94°17'40"	Angelina	2,890	--	13	13	0	1952	--	1964
08039100	Ayish Bayou nr San Augustine, TX	31°23'46"	94°09'03"	San Augustine	89.0	--	26	26	0	1960	--	1985
08039500	Angelina R at Horger, TX	31°00'54"	94°09'07"	Jasper	3,490	--	30	22	8	1929	1965	1973
08040600	Neches R nr Town Bluff, TX	30°47'27"	94°09'03"	Tyler	7,570	--	49	0	49	--	1952	2000
08041000	Neches R at Evadale, TX	30°21'20"	94°05'35"	Jasper	7,950	--	81	31	50	1905	1951	2000
08041500	Village Cr nr Kountze, TX	30°23'52"	94°15'48"	Hardin	860	--	64	64	0	1925	--	2000
08041700	Pine Island Bayou nr Sour Lake, TX	30°06'21"	94°20'04"	Hardin	336	--	33	33	0	1968	--	2000
<b>Trinity R Basin</b>												
08042700	North Cr nr Jacksboro, TX	33°16'57"	98°17'53"	Jack	21.6	--	24	15	9	1957	1972	1980
08042800	West Fk Trinity R nr Jacksboro, TX	33°17'30"	98°04'49"	Jack	683	--	44	17	27	1957	1974	2000
08043100	West Fk Trinity R at Bridgeport, TX	33°12'07"	97°48'09"	Wise	1,110	--	5	0	5	--	1985	1989
08043500	West Fk Trinity R at Bridgeport, TX	33°12'05"	97°45'21"	Wise	1,150	--	14	14	0	1916	--	1929
08043950	Big Sandy Cr nr Chico, TX	33°16'27"	97°40'42"	Wise	312	--	64	19	45	1937	1956	2000
08044500	West Fk Trinity R nr Boyd, TX	33°05'07"	97°33'30"	Wise	1,730	--	53	0	53	--	1948	2000
08044800	Walnut Cr at Reno, TX	32°56'44"	97°34'58"	Parker	75.6	--	5	5	0	1996	--	2000
08045500	West Fk Trinity R at Lake Worth Dam above FTW, TX	32°47'27"	97°24'54"	Tarrant	2,070	--	10	9	1	1925	1934	1934
08045850	Clear Fk Trinity R nr Weatherford, TX	32°44'25"	97°39'06"	Parker	121	--	8	0	8	--	1981	2000
08046000	Clear Fk Trinity R nr Aledo, TX	32°38'28"	97°33'51"	Parker	251	--	28	9	19	1948	1957	1975
08047000	Clear Fk Trinity R nr Benbrook, TX	32°39'54"	97°26'30"	Tarrant	431	--	53	5	48	1948	1953	2000

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Trinity R Basin—Continued</b>												
08047500	Clear Fk Trinity R at FTW, TX	32°43'56"	97°21'31"	Tarrant	518	--	77	28	48	1925	1953	2000
08048000	West Fk Trinity R at FTW, TX	32°45'39"	97°19'56"	Tarrant	2,620	--	80	0	80	--	1921	2000
08048500	Marine Cr at FTW, TX	32°48'16"	97°21'48"	Tarrant	16.8	--	8	7	1	1951	1958	1958
08048520	Sycamore Cr at IH-35, FTW, TX	32°39'55"	97°19'16"	Tarrant	17.7	Yes	7	7	0	1970	--	1976
08048530	Sycamore Cr trib above Seminary South Shopping Center, FTW, TX	32°41'08"	97°19'44"	Tarrant	.97	Yes	7	7	0	1970	--	1976
08048540	Sycamore Cr trib at IH-35, FTW, TX	32°41'18"	97°19'11"	Tarrant	1.35	Yes	7	7	0	1970	--	1976
08048543	West Fk Trinity R at Beach St, FTW, TX	32°45'06"	97°17'21"	Tarrant	2,690	--	24	0	24	--	1977	2000
08048600	Dry Branch at Fain St, FTW, TX	32°46'34"	97°17'18"	Tarrant	2.15	Yes	8	8	0	1969	--	1976
08048800	Big Fossil Cr at Haltom City, TX	32°48'26"	97°14'54"	Tarrant	52.8	Yes	14	14	0	1960	--	1973
08048850	Little Fossil Cr at Mesquite St, FTW, TX	32°48'33"	97°17'28"	Tarrant	12.3	Yes	8	8	0	1969	--	1976
08048970	Village Cr at Everman, TX	32°36'12"	97°15'53"	Tarrant	84.5	--	11	11	0	1990	--	2000
08049000	Village Cr nr Handley, TX	32°42'00"	97°13'00"	Tarrant	126	--	4	4	0	1926	--	1929
08049240	Rush Cr at Woodland Park Blvd, Arlington, TX	32°42'50"	97°10'19"	Tarrant	26.6	--	1	1	0	1994	--	1994
08049500	West Fk Trinity R at Grand Prairie, TX	32°45'46"	96°59'42"	Dallas	3,070	--	75	6	69	1926	1932	2000
08049550	Big Bear Cr nr Grapevine, TX	32°54'48"	97°07'44"	Tarrant	29.6	--	12	12	0	1968	--	1979
08049565	Trigg Branch at Dallas-FTW Airport nr Euless, TX	32°52'02"	97°02'20"	Brooks	1.73	Yes	5	5	0	1983	--	1987
08049580	Mountain Cr nr Venus, TX	32°29'27"	97°07'22"	Dallas	25.5	--	2	2	0	1986	--	1987
08049600	Mountain Cr nr Cedar Hill, TX	32°35'03"	97°01'23"	Dallas	119	--	24	0	24	--	1961	1984
08049700	Walnut Cr nr Mansfield, TX	32°34'51"	97°06'06"	Tarrant	62.8	--	40	40	0	1961	--	2000
08050000	Mountain Cr nr Grand Prairie, TX	32°42'20"	96°58'00"	Dallas	273	--	8	8	0	1925	--	1932
08050100	Mountain Cr at Grand Prairie, TX	32°44'51"	96°55'32"	Dallas	298	--	40	0	40	--	1961	2000
08050300	Elm Fk Trinity R nr Muenster, TX	33°36'36"	97°22'57"	Cooke	46.0	--	17	0	17	--	1957	1973
08050400	Elm Fk Trinity R at Gainesville, TX	33°37'27"	97°09'22"	Cooke	174	--	15	15	0	1986	--	2000
08050500	Elm Fk Trinity R nr Sanger, TX	33°23'11"	97°05'05"	Denton	381	--	35	4	31	1950	1954	1984
08050800	Timber Cr nr Collinsville, TX	33°33'16"	96°56'49"	Cooke	38.8	--	15	15	0	1986	--	2000
08050840	Range Cr nr Collinsville, TX	33°31'34"	96°48'25"	Denton	29.2	--	8	8	0	1993	--	2000
08051000	Isle Du Bois Cr nr Pilot Point, TX	33°24'23"	97°00'45"	Denton	266	--	35	35	0	1950	--	1984
08051130	Elm Fk Trinity R nr Pilot Point, TX	33°21'01"	97°02'49"	Denton	692	--	7	0	7	--	1986	1992
08051500	Clear Cr nr Sanger, TX	33°20'10"	97°10'45"	Denton	295	--	51	31	20	1950	1981	2000
08052000	Elm Fk Trinity R nr Denton, TX	33°15'02"	97°02'42"	Denton	1,080	--	2	2	0	1925	--	1926
08052650	Little Elm Cr nr Celina, TX	33°21'55"	96°49'25"	Collin	46.7	--	10	0	10	--	1967	1976
08052700	Little Elm Cr nr Aubrey, TX	33°17'00"	96°53'33"	Denton	75.5	--	41	9	32	1957	1966	2000
08052780	Hickory Cr at Denton, TX	33°09'06"	97°08'30"	Denton	129	--	2	0	2	--	1986	1987
08053000	Elm Fk Trinity R nr Lewisville, TX	33°02'44"	96°57'39"	Denton	1,670	--	51	0	51	--	1950	2000

Footnotes at end of table.



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<b>Trinity R Basin—Continued</b>												
08053010	Indian Cr at Hebron Pkwy at Carrollton, TX	33°01'06"	96°55'27"	Denton	14.7	--	3	3	0	1986	--	1989
08053500	Denton Cr nr Justin, TX	33°07'08"	97°17'25"	Denton	400	--	51	15	36	1950	1965	2000
08054000	Denton Cr nr Roanoke, TX	33°02'24"	97°12'17"	Denton	621	--	20	20	0	1924	--	1955
08055000	Denton Cr nr Grapevine, TX	32°59'13"	97°00'45"	Tarrant	705	--	43	5	38	1948	1953	1990
08055500	Elm Fk Trinity R nr Carrollton, TX	32°57'57"	96°56'39"	Dallas	2,460	--	93	44	49	1908	1952	2000
08055700	Bachman Branch at Dallas, TX	32°51'37"	96°51'13"	Dallas	10.0	Yes	16	16	0	1964	--	1979
08056500	Turtle Cr at Dallas, TX	32°48'26"	96°48'08"	Dallas	7.98	Yes	36	18	18	1952	1970	1991
08057000	Trinity R at Dallas, TX	32°46'29"	96°49'18"	Dallas	6,110	--	98	28	70	1903	1931	2000
08057100	White Rock Cr at Keller Springs Rd, Dallas, TX	32°58'13"	96°48'19"	Dallas	29.4	Yes	18	18	0	1962	--	1979
08057200	White Rock Cr at Greenville Ave, Dallas, TX	32°53'21"	96°45'23"	Dallas	66.4	Yes	35	35	0	1962	--	2000
08057300	White Rock Cr at White Rock Lake, Dallas, TX	32°48'31"	96°43'32"	Dallas	100	Yes	17	0	17	--	1963	1979
08057400	White Rock Cr at Scyene Rd, Dallas, TX	32°45'57"	96°43'49"	Dallas	122	Yes	17	0	17	--	1963	1979
08057410	Trinity R below Dallas, TX	32°42'26"	96°44'08"	Dallas	6,280	--	43	0	43	--	1958	2000
08057445	Prairie Cr at US 175, Dallas, TX	32°42'17"	96°40'11"	Dallas	9.03	Yes	21	21	0	1976	--	2000
08057450	Tenmile Cr at SH 342 at Lancaster, TX	32°34'42"	96°45'21"	Dallas	52.8	Yes	10	10	0	1970	--	1979
08058500	Honey Cr nr McKinney, TX	33°16'42"	96°39'27"	Collin	39.0	--	22	0	22	--	1952	1973
08058900	East Fk Trinity R at McKinney, TX	33°14'38"	96°36'31"	Collin	164	--	25	0	25	--	1976	2000
08059000	East Fk Trinity R nr McKinney, TX	33°12'13"	96°35'44"	Collin	190	--	26	5	21	1950	1955	1975
08059400	Sister Grove Cr nr Blue Ridge, TX	33°17'40"	96°28'58"	Collin	83.1	--	25	0	25	--	1976	2000
08059500	Sister Grove Cr nr Princeton, TX	33°11'35"	96°28'32"	Collin	113	--	25	3	22	1950	1953	1974
08060000	East Fk Trinity R above Pilot Grove, TX	33°01'23"	96°28'32"	Collin	324	--	4	4	0	1950	--	1953
08061000	East Fk Trinity R nr Lavon, TX	33°01'25"	96°28'31"	Collin	773	--	36	0	36	--	1954	1989
08061500	East Fk Trinity R nr Rockwall, TX	32°55'25"	96°30'20"	Rockwall	840	--	30	29	1	1925	1954	1954
08061540	Rowlett Cr nr Sachse, TX	32°57'35"	96°36'51"	Dallas	120	--	32	32	0	1969	--	2000
08061700	Duck Cr nr Garland, TX	32°49'58"	96°35'43"	Dallas	31.6	Yes	34	34	0	1959	--	1992
08061750	East Fk Trinity R nr Forney, TX	32°46'27"	96°30'12"	Kaufman	1,120	--	27	0	27	--	1974	2000
08061950	South Mesquite Cr at Mercury Rd nr Mesquite, TX	32°43'32"	96°34'12"	Dallas	23.0	Yes	11	11	0	1969	--	1979
08062000	East Fk Trinity R nr Crandall, TX	32°38'19"	96°29'06"	Kaufman	1,260	--	51	4	47	1950	1954	2000
08062500	Trinity R nr Rosser, TX	32°25'35"	96°27'46"	Kaufman	8,150	--	62	0	62	--	1925	2000
08062650	Cedar Cr Reservoir spillway outflow nr Trinidad, TX	32°14'16"	96°08'36"	Henderson	1,010	--	17	0	17	--	1966	1982
08062700	Trinity R at Trinidad, TX	32°08'05"	96°06'20"	Henderson	8,540	--	36	0	36	--	1965	2000
08062800	Cedar Cr nr Kemp, TX	32°30'18"	96°06'57"	Kaufman	189	--	24	6	18	1964	1970	1987
08062900	Kings Cr nr Kaufman, TX	32°30'48"	96°19'44"	Kaufman	233	--	24	8	16	1964	1972	1987

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Trinity R Basin—Continued</b>												
08062980	Lacy Fk nr Mabank, TX	32°25'27"	96°06'33"	Kaufman	118	--	1	1	0	1983	--	1983
08063000	Cedar Cr nr Mabank, TX	32°19'45"	96°10'05"	Kaufman	733	--	27	27	0	1939	--	1965
08063003	South Twin Cr nr Eustace, TX	32°19'18"	96°01'43"	Henderson	27.4	--	1	1	0	1983	--	1983
08063020	Cedar Cr at Trinidad, TX	32°09'24"	96°03'45"	Henderson	1,010	--	6	0	6	--	1966	1971
08063100	Richland Cr nr Dawson, TX	31°56'18"	96°40'52"	Navarro	333	--	40	2	38	1961	1963	2000
08063200	Pin Oak Cr nr Hubbard, TX	31°48'01"	96°43'02"	Limestone	17.6	--	16	5	11	1957	1962	1972
08063500	Richland Cr nr Richland, TX	31°57'02"	96°25'16"	Navarro	734	--	49	23	26	1940	1963	1988
08063800	Waxahachie Cr nr Bardwell, TX	32°14'36"	96°38'24"	Ellis	178	--	37	0	37	--	1964	2000
08064100	Chambers Cr nr Rice, TX	32°11'54"	96°31'12"	Navarro	807	--	17	0	17	--	1984	2000
08064500	Chambers Cr nr Corsicana, TX	32°06'29"	96°22'14"	Navarro	963	--	45	21	24	1940	1961	1984
08064600	Richland Cr nr Fairfield, TX	31°57'08"	96°05'50"	Freestone	1,960	--	10	0	10	--	1973	1982
08064700	Tehuacana Cr nr Streetman, TX	31°50'46"	96°17'37"	Freestone	142	--	32	32	0	1969	--	2000
08064800	Catfish Cr nr Tennessee Colony, TX	31°52'51"	95°52'07"	Anderson	207	--	27	27	0	1963	--	1989
08065000	Trinity R nr Oakwood, TX	31°38'54"	95°47'21"	Anderson	12,800	--	77	0	77	--	1924	2000
08065200	Upper Keechi Cr nr Oakwood, TX	31°34'11"	95°53'17"	Leon	150	--	38	38	0	1963	--	2000
08065350	Trinity R nr Crockett, TX	31°20'18"	95°39'22"	Houston	13,900	--	37	0	37	--	1964	2000
08065500	Trinity R nr Midway, TX	31°04'28"	95°41'57"	Madison	14,500	--	31	14	17	1940	1954	1970
08065700	Caney Cr nr Madisonville, TX	30°56'12"	95°56'07"	Madison	112	--	13	13	0	1964	--	1976
08065800	Bedias Cr nr Madisonville, TX	30°53'03"	95°46'39"	Walker	321	--	33	33	0	1968	--	2000
08066000	Trinity R at Riverside, TX	30°51'33"	95°23'55"	Walker	15,600	--	45	30	15	1924	1954	1968
08066100	White Rock Cr nr Trinity, TX	31°03'06"	95°22'40"	Trinity	222	--	16	16	0	1967	--	1985
08066170	Kickapoo Cr nr Onalaska, TX	30°54'25"	95°05'18"	Polk	57.0	--	34	34	0	1967	--	2000
08066200	Long King Cr at Livingston, TX	30°42'58"	94°57'31"	Polk	141	--	37	37	0	1964	--	2000
08066250	Trinity R nr Goodrich, TX	30°34'19"	94°56'55"	Polk	16,800	--	34	0	34	--	1967	2000
08066300	Menard Cr nr Rye, TX	30°28'52"	94°46'46"	Liberty	152	--	34	34	0	1967	--	2000
08066400	Big Cr nr Shepherd, TX	30°30'59"	94°59'06"	San Jacinto	38.8	--	23	23	0	1967	--	1989
08066500	Trinity R at Romayer, TX	30°25'30"	94°51'02"	Liberty	17,200	--	76	29	47	1925	1954	2000
<b>Cedar Bayou Basin (Coastal Basin)</b>												
08067500	Cedar Bayou nr Crosby, TX	29°58'21"	94°59'08"	Liberty	64.9	--	20	20	0	1972	--	1991
<b>San Jacinto R Basin</b>												
08067650	West Fk San Jacinto R below Lake Conroe nr Conroe, TX	30°20'31"	95°32'34"	Montgomery	451	--	21	0	21	--	1973	2000
08067700	Caney Cr nr Dobbin, TX	30°21'13"	95°48'35"	Montgomery	40.4	--	2	2	0	1964	--	1965
08068000	West Fk San Jacinto R nr Conroe, TX	30°14'40"	95°27'25"	Montgomery	828	--	64	36	28	1925	1973	2000

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>San Jacinto R Basin—Continued</b>												
08068090	West Fk San Jacinto R above Lake Houston nr Porter, TX	30°05'09"	95°17'59"	Montgomery	962	--	16	0	16	--	1985	2000
08068275	Spring Cr nr Tomball, TX	30°07'11"	95°38'45"	Harris	186	--	1	1	0	2000	--	2000
08068390	Bear Branch at Research Forest Blvd, The Woodlands, TX	30°11'25"	95°29'27"	Montgomery	15.4	--	1	1	0	2000	--	2000
08068450	Panther Branch nr Spring, TX	30°07'51"	95°28'52"	Harris	34.5	--	4	4	0	1973	--	1976
08068500	Spring Cr nr Spring, TX	30°06'37"	95°26'10"	Harris	409	--	61	61	0	1940	--	2000
08068720	Cypress Cr at Katy-Hockley Rd nr Hockley, TX	29°57'00"	95°48'29"	Harris	110	--	23	23	0	1976	--	2000
08068740	Cypress Cr at House-Hahl Rd nr Cypress, TX	29°57'32"	95°43'03"	Harris	131	--	25	25	0	1976	--	2000
08068780	Little Cypress Cr nr Cypress, TX	30°00'57"	95°41'50"	Harris	41.0	--	10	10	0	1983	--	1992
08068800	Cypress Cr at Grant Rd nr Cypress, TX	29°58'24"	95°35'54"	Harris	214	--	10	10	0	1983	--	1992
08068900	Cypress Cr at Stuebner Airline Rd nr Westfield, TX	30°00'23"	95°30'42"	Harris	248	Yes	2	2	0	1988	--	1989
08069000	Cypress Cr nr Westfield, TX	30°02'08"	95°25'43"	Harris	285	Yes	56	56	0	1945	--	2000
08069500	West Fk San Jacinto R nr Humble, TX	30°01'37"	95°15'28"	Harris	1,740	--	26	26	0	1929	--	1954
08070000	East Fk San Jacinto R nr Cleveland, TX	30°20'11"	95°06'14"	Liberty	325	--	61	61	0	1940	--	2000
08070200	East Fk San Jacinto R nr New Caney, TX	30°08'43"	95°07'27"	Montgomery	388	--	16	16	0	1985	--	2000
08070500	Caney Cr nr Splendora, TX	30°15'34"	95°18'08"	Montgomery	105	--	56	56	0	1945	--	2000
08071000	Peach Cr at Splendora, TX	30°13'57"	95°10'05"	Montgomery	117	--	35	35	0	1944	--	2000
08071280	Luce Bayou above Lake Houston nr Huffman, TX	30°06'34"	95°03'35"	Liberty	218	--	16	16	0	1985	--	2000
08071500	San Jacinto R nr Huffman, TX	29°59'40"	95°08'00"	Harris	2,800	--	17	17	0	1937	--	1953
08072300	Buffalo Bayou nr Katy, TX	29°44'35"	95°48'24"	Fort Bend	63.3	--	23	23	0	1978	--	2000
08072730	Bear Cr nr Barker, TX	29°49'50"	95°41'12"	Harris	21.5	--	23	23	0	1978	--	2000
08073500	Buffalo Bayou nr Addicks, TX	29°45'42"	95°36'20"	Harris	293	Yes	55	0	55	--	1946	2000
08073600	Buffalo Bayou at West Belt Dr, Houston, TX	29°45'43"	95°33'27"	Harris	307	Yes	29	7	22	1972	1979	2000
08073700	Buffalo Bayou at Piney Point, TX	29°44'48"	95°31'24"	Harris	317	--	29	0	29	--	1964	2000
08074000	Buffalo Bayou at Houston, TX	29°45'36"	95°24'30"	Harris	358	Yes	34	9	25	1937	1945	1975
08074150	Cole Cr at Deihl Rd, Houston, TX	29°51'04"	95°29'16"	Harris	7.50	Yes	22	22	0	1965	--	1986
08074250	Brickhouse Gulley at Costa Rica St, Houston, TX	29°49'40"	95°28'09"	Harris	11.4	Yes	17	17	0	1965	--	1981
08074500	Whiteoak Bayou at Houston, TX	29°46'30"	95°23'49"	Harris	86.3	Yes	64	64	0	1937	--	2000
08074800	Keegans Bayou at Roark Rd nr Houston, TX	29°39'23"	95°33'43"	Harris	12.7	Yes	20	20	0	1965	--	1984
08075000	Brays Bayou at Houston, TX	29°41'49"	95°24'43"	Harris	94.9	Yes	64	64	0	1937	--	2000
08075400	Sims Bayou at Hiram Clarke St, Houston, TX	29°37'07"	95°26'45"	Harris	20.2	Yes	28	28	0	1965	--	2000
08075500	Sims Bayou at Houston, TX	29°40'27"	95°17'21"	Harris	63.0	Yes	43	43	0	1953	--	1995
08075650	Berry Bayou at Forest Oaks St, Houston, TX	29°40'35"	95°14'37"	Harris	10.1	Yes	2	2	0	1965	--	1966
08075730	Vince Bayou at Pasadena, TX	29°41'40"	95°12'58"	Harris	7.32	Yes	29	29	0	1972	--	2000
08075770	Hunting Bayou at IH-610, Houston, TX	29°47'35"	95°16'04"	Harris	16.1	Yes	36	36	0	1965	--	2000

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<b>San Jacinto R Basin—Continued</b>												
08075900	Greens Bayou nr US 75 nr Houston, TX	29°57'24"	95°25'04"	Harris	36.6	Yes	26	26	0	1966	--	1992
08076000	Greens Bayou nr Houston, TX	29°55'05"	95°18'24"	Harris	68.7	Yes	48	48	0	1953	--	2000
08076180	Garners Bayou nr Humble, TX	29°56'03"	95°14'02"	Harris	31.0	--	7	7	0	1987	--	1993
08076500	Halls Bayou at Houston, TX	29°51'42"	95°20'05"	Harris	28.7	Yes	41	41	0	1953	--	1993
<b>Clear Cr Basin (Coastal Basin)</b>												
08077000	Clear Cr nr Pearland, TX	29°35'50"	95°17'11"	Brazoria	38.8	Yes	41	41	0	1948	--	1992
<b>Chocolate Bayou Basin (Coastal Basin)</b>												
08078000	Chocolate Bayou nr Alvin, TX	29°22'09"	95°19'14"	Brazoria	87.7	--	41	41	0	1960	--	2000
<b>Oyster Cr Basin (Coastal Basin)</b>												
08079000	Oyster Cr nr Angleton, TX	29°09'30"	95°28'32"	Brazoria	171	Yes	36	29	7	1945	1974	1980
<b>Brazos R Basin</b>												
08079500	North Fk Double Mountain Fk Brazos R at Lubbock, TX	33°35'08"	101°49'40"	Lubbock	200	--	10	10	0	1940	--	1949
08079575	North Fk Double Mountain Fk Brazos R nr Post, TX	33°14'55"	101°20'17"	Garza	438	--	10	10	0	1984	--	1993
08079600	Double Mountain Fk Brazos R at Justiceburg, TX	33°02'18"	101°11'50"	Garza	244	--	38	38	0	1963	--	2000
08080000	Double Mountain Fk Brazos R nr Rotan, TX	32°55'49"	100°29'16"	Fisher	1,600	--	1	1	0	1951	--	1951
08080500	Double Mountain Fk Brazos R nr Aspermont, TX	33°00'29"	100°10'49"	Stonewall	1,860	--	71	71	0	1925	--	2000
08080540	McDonald Cr nr Post, TX	33°21'03"	101°13'36"	Garza	79.2	--	13	13	0	1966	--	1978
08080700	Running Water Draw at Plainview, TX	34°10'44"	101°42'08"	Hale	382	--	34	34	0	1940	--	1978
08080950	Duck Cr nr Girard, TX	33°21'22"	100°42'17"	Kent	279	--	25	2	23	1965	1967	1989
08081000	Salt Fk Brazos R nr Peacock, TX	33°12'43"	100°25'53"	Stonewall	1,990	--	23	0	23	--	1951	1986
08081200	Croton Cr nr Jayton, TX	33°17'18"	100°25'52"	Stonewall	290	--	27	27	0	1960	--	1986
08081500	Salt Croton Cr nr Aspermont, TX	33°24'03"	100°24'29"	King	64.3	--	21	21	0	1957	--	1977
08082000	Salt Fk Brazos R nr Aspermont, TX	33°20'02"	100°14'16"	Stonewall	2,500	--	61	24	37	1940	1964	2000
08082100	Stinking Cr nr Aspermont, TX	33°14'00"	100°12'47"	Stonewall	88.8	--	18	18	0	1966	--	1983
08082180	North Croton Cr nr Knox City, TX	33°22'59"	100°04'51"	Stonewall	251	--	21	21	0	1966	--	1986
08082500	Brazos R at Seymour, TX	33°34'51"	99°16'02"	Baylor	5,970	--	76	49	27	1925	1974	2000
08082700	Millers Cr nr Munday, TX	33°19'45"	99°27'53"	Throckmorton	104	--	37	37	0	1964	--	2000
08083000	Brazos R nr Graham, TX	33°04'55"	98°43'36"	Young	7,260	--	2	2	0	1918	--	1919
08083100	Clear Fk Brazos R nr Roby, TX	32°47'15"	100°23'18"	Fisher	228	--	38	38	0	1963	--	2000
08083240	Clear Fk Brazos R at Hawley, TX	32°35'53"	99°48'53"	Jones	1,420	--	22	22	0	1968	--	1989
08083245	Mulberry Cr nr Hawley, TX	32°34'04"	99°47'32"	Jones	205	--	21	21	0	1969	--	1989
08083300	Elm Cr nr Abilene, TX	32°21'08"	99°48'27"	Taylor	133	--	16	0	16	--	1964	1979
08083400	Little Elm Cr nr Abilene, TX	32°23'29"	99°51'08"	Taylor	39.1	--	16	16	0	1964	--	1979
08083420	Cat Claw Cr at Abilene, TX	32°28'31"	99°44'56"	Taylor	13.0	--	9	9	0	1971	--	1979

Footnotes at end of table.

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Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregu- lated	Regu- lated <sup>3</sup>	First unregu- lated	First regu- lated	Last year <sup>4</sup>
<b>Brazos R Basin—Continued</b>												
08083430	Elm Cr at Abilene, TX	32°30'29"	99°44'27"	Taylor	422	--	4	0	4	--	1980	1983
08083470	Cedar Cr at Abilene, TX	32°26'56"	99°43'13"	Taylor	119	--	14	0	14	--	1971	1984
08084000	Clear Fk Brazos R at Nugent, TX	32°41'24"	99°40'09"	Jones	2,200	--	76	15	61	1925	1940	2000
08084800	California Cr nr Stamford, TX	32°55'51"	99°38'32"	Jones	478	--	38	38	0	1963	--	2000
08085000	Paint Cr nr Haskell, TX	33°04'39"	99°32'36"	Haskell	914	--	1	1	0	1951	--	1951
08085500	Clear Fk Brazos R at Fort Griffin, TX	32°56'04"	99°13'27"	Shackelford	3,990	--	76	15	61	1925	1940	2000
08086000	Clear Fk Brazos R at Crystal Falls, TX	32°54'00"	98°50'00"	Stephens	4,320	--	4	4	0	1924	--	1928
08086015	Hubbard Cr nr Sedwick, TX	32°36'06"	99°14'20"	Shackelford	128	--	3	3	0	1964	--	1966
08086050	Deep Cr at Moran, TX	32°33'33"	99°10'11"	Shackelford	228	--	13	13	0	1963	--	1975
08086100	Hubbard Cr nr Albany, TX	32°41'21"	99°09'52"	Shackelford	454	--	13	13	0	1963	--	1975
08086120	Salt Prong Hubbard Cr at US 380 nr Albany, TX	32°41'01"	99°16'05"	Shackelford	65.2	--	5	0	5	--	1964	1968
08086150	North Fk Hubbard Cr nr Albany, TX	32°42'27"	99°16'29"	Shackelford	39.3	--	27	27	0	1964	--	1990
08086200	Salt Prong Hubbard Cr nr Albany, TX	32°42'02"	99°12'42"	Shackelford	115	--	1	1	0	1963	--	1963
08086210	Snailum Cr nr Albany, TX	32°43'15"	99°10'30"	Shackelford	22.9	--	3	3	0	1964	--	1966
08086212	Hubbard Cr below Albany, TX	32°43'58"	99°08'25"	Shackelford	613	--	34	34	0	1967	--	2000
08086235	Battle Cr nr Moran, TX	32°33'10"	99°06'32"	Shackelford	108	--	2	2	0	1967	--	1968
08086260	Pecan Cr nr Eolian, TX	32°35'01"	99°01'57"	Stephens	26.4	--	9	9	0	1967	--	1975
08086290	Big Sandy Cr above Breckenridge, TX	32°38'54"	99°00'15"	Stephens	280	--	38	38	0	1963	--	2000
08086500	Hubbard Cr nr Breckenridge, TX	32°50'13"	98°56'52"	Stephens	1,090	--	31	7	24	1956	1963	1986
08087300	Clear Fk Brazos R at Eliasville, TX	32°57'36"	98°45'59"	Young	5,700	--	47	26	21	1917	1962	1982
08088000	Brazos R nr South Bend, TX	33°01'27"	98°38'37"	Young	13,100	--	62	23	39	1939	1962	2000
08088100	Salt Cr at Olney, TX	33°22'13"	98°44'40"	Young	11.8	--	19	19	0	1959	--	1977
08088200	Salt Cr nr Newcastle, TX	33°13'00"	98°38'55"	Young	120	--	2	2	0	1959	--	1960
08088300	Briar Cr nr Graham, TX	33°12'43"	98°37'06"	Young	24.2	--	31	31	0	1959	--	1989
08088450	Big Cedar Cr nr Ivan, TX	32°49'39"	98°43'25"	Stephens	97.0	--	24	24	0	1966	--	1989
08088610	Brazos R nr Graford, TX	32°51'29"	98°24'41"	Palo Pinto	14,000	--	11	0	11	--	1990	2000
08089000	Brazos R nr Palo Pinto, TX	32°51'45"	98°18'08"	Palo Pinto	14,200	--	76	16	60	1925	1941	2000
08090500	Palo Pinto Cr nr Santo, TX	32°37'51"	98°10'50"	Palo Pinto	573	--	26	13	13	1925	1964	1976
08090800	Brazos R nr Dennis, TX	32°36'56"	97°55'32"	Parker	15,700	--	32	0	32	--	1969	2000
08091000	Brazos R nr Glen Rose, TX	32°16'18"	97°39'48"	Somervell	16,300	--	77	17	60	1924	1941	2000
08091500	Paluxy R at Glen Rose, TX	32°13'53"	97°46'37"	Somervell	410	--	54	35	19	1925	1982	2000
08091750	Squaw Cr nr Glen Rose, TX	32°16'12"	97°43'56"	Somervell	70.3	--	27	5	22	1974	1978	2000
08092000	Nolan R at Blum, TX	32°09'02"	97°24'09"	Hill	282	--	39	17	22	1925	1965	1986

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Brazos R Basin—Continued</b>												
08093100	Brazos R nr Aquilla, TX	31°48'44"	97°17'51"	Bosque	17,700	--	62	2	60	1939	1941	2000
08093250	Hackberry Cr at Hillsboro, TX	32°00'20"	97°08'59"	Hill	57.9	--	13	13	0	1980	--	1992
08093360	Aquilla Cr above Aquilla, TX	31°53'42"	97°12'21"	Hill	255	--	2	0	2	--	1980	1981
08093400	Cobb Cr nr Abbott, TX	31°55'11"	97°05'57"	Hill	12.4	Yes	12	12	0	1968	--	1979
08093500	Aquilla Cr nr Aquilla, TX	31°50'40"	97°12'04"	Hill	308	--	61	43	18	1940	1983	2000
08093700	North Bosque R at Stephenville, TX	32°12'56"	98°11'55"	Erath	95.9	--	21	7	14	1959	1966	1979
08094500	Green Cr nr Alexander, TX	32°04'26"	98°13'46"	Erath	45.4	--	15	0	15	--	1959	1973
08094800	North Bosque R at Hico, TX	31°58'41"	98°02'04"	Hamilton	359	--	38	0	38	--	1963	2000
08095000	North Bosque R nr Clifton, TX	31°47'09"	97°34'04"	Bosque	968	--	77	44	33	1924	1968	2000
08095200	North Bosque R at Valley Mills, TX	31°40'10"	97°28'09"	Bosque	1,150	--	41	8	33	1960	1968	2000
08095300	Middle Bosque R nr McGregor, TX	31°30'33"	97°21'56"	McLennan	182	--	26	26	0	1960	--	1985
08095400	Hog Cr nr Crawford, TX	31°33'20"	97°21'22"	McLennan	78.2	--	26	20	6	1960	1980	1985
08095500	South Bosque R nr Speegleville, TX	31°31'00"	97°15'00"	McLennan	386	--	5	5	0	1925	--	1929
08095600	Bosque R nr Waco, TX	31°36'04"	97°11'36"	McLennan	1,660	--	22	6	16	1960	1966	1981
08096500	Brazos R at Waco, TX	31°32'09"	97°04'23"	McLennan	20,000	--	102	42	60	1899	1941	2000
08097000	Cow Bayou at Mooreville, TX	31°18'45"	97°08'16"	Falls	83.5	--	17	0	17	--	1959	1975
08097500	Brazos R nr Marlin, TX	31°17'18"	96°58'10"	Falls	20,600	--	13	2	11	1939	1941	1951
08098000	Deer Cr at Chilton, TX	31°15'58"	97°03'30"	Falls	84.5	--	2	2	0	1935	--	1936
08098290	Brazos R nr Highbank, TX	31°08'02"	96°49'29"	Falls	20,900	--	35	0	35	--	1966	2000
08098300	Little Pond Cr nr Burlington, TX	31°01'35"	96°59'17"	Milam	22.2	--	20	20	0	1963	--	1982
08099100	Leon R nr De Leon, TX	32°10'25"	98°31'58"	Comanche	479	--	26	0	26	--	1961	1986
08099300	Sabana R nr De Leon, TX	32°06'50"	98°36'19"	Comanche	264	--	26	19	7	1961	1980	1986
08099500	Leon R nr Hasse, TX	31°57'28"	98°27'32"	Comanche	1,260	--	52	14	38	1940	1954	1991
08100000	Leon R nr Hamilton, TX	31°47'19"	98°07'16"	Hamilton	1,890	--	46	7	39	1926	1962	2000
08100500	Leon R at Gatesville, TX	31°25'58"	97°45'42"	Coryell	2,340	--	50	13	37	1951	1964	2000
08101000	Cowhouse Cr at Pidcoke, TX	31°17'05"	97°53'05"	Coryell	455	--	50	50	0	1951	--	2000
08101500	Cowhouse Cr nr Killeen, TX	31°12'21"	97°42'55"	Coryell	667	--	2	2	0	1940	--	1941
08102500	Leon R nr Belton, TX	31°04'12"	97°26'28"	Bell	3,540	--	77	31	46	1924	1955	2000
08102600	Nolan Cr at Belton, TX	31°03'06"	97°27'25"	Bell	112	--	8	0	8	--	1975	1982
08103800	Lampasas R nr Kempner, TX	31°04'54"	98°00'59"	Lampasas	818	--	38	11	27	1963	1974	2000
08103900	South Fk Rocky Cr nr Briggs, TX	30°54'41"	98°02'12"	Burnet	33.3	--	37	37	0	1964	--	2000
08104000	Lampasas R at Youngsport, TX	30°57'26"	97°42'30"	Bell	1,240	--	56	49	7	1925	1974	1980
08104100	Lampasas R nr Belton, TX	31°00'06"	97°29'32"	Bell	1,320	--	26	3	23	1964	1967	1989
08104500	Little R nr Little River, TX	30°57'59"	97°20'45"	Bell	5,230	--	43	5	38	1924	1963	2000

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Brazos R Basin—Continued</b>												
08104700	North Fk San Gabriel R nr Georgetown, TX	30°39'42"	97°42'40"	Williamson	248	--	32	11	21	1969	1980	2000
08104900	South Fk San Gabriel R at Georgetown, TX	30°37'32"	97°41'27"	Williamson	133	--	32	32	0	1969	--	2000
08105000	San Gabriel R at Georgetown, TX	30°39'14"	97°39'18"	Williamson	405	--	39	39	0	1935	--	1973
08105100	Berry Cr nr Georgetown, TX	30°41'28"	97°39'21"	Williamson	83.1	--	33	33	0	1968	--	2000
08105300	San Gabriel R nr Weir, TX	30°38'45"	97°35'06"	Williamson	563	--	13	2	11	1978	1980	1990
08105400	San Gabriel R nr Circleville, TX	30°37'43"	97°28'23"	Williamson	599	--	19	19	0	1925	--	1976
08105700	San Gabriel R at Laneport, TX	30°41'39"	97°16'43"	Williamson	738	--	34	14	21	1966	1980	2000
08106300	Brushy Cr nr Rockdale, TX	30°41'38"	97°04'42"	Milam	505	--	13	0	13	--	1968	1980
08106310	San Gabriel R nr Rockdale, TX	30°43'39"	97°02'19"	Milam	1,360	--	12	0	12	--	1981	1992
08106500	Little R at Cameron, TX	30°50'06"	96°56'47"	Milam	7,070	--	83	36	47	1918	1954	2000
08107000	Big Elm Cr nr Temple, TX	31°02'58"	97°14'08"	Bell	74.7	--	1	1	0	1935	--	1935
08107500	Big Elm Cr nr Buckholts, TX	30°56'50"	97°06'14"	Milam	171	--	2	2	0	1935	--	1936
08108000	North Elm Cr nr Ben Arnold, TX	30°57'00"	97°03'00"	Milam	32.2	--	2	2	0	1935	--	1936
08108200	North Elm Cr nr Cameron, TX	30°55'52"	97°01'13"	Milam	44.8	--	11	11	0	1963	--	1973
08108700	Brazos R at SH 21 nr Bryan, TX	30°37'36"	96°32'38"	Brazos	29,500	--	7	0	7	--	1994	2000
08109000	Brazos R nr Bryan, TX	30°36'50"	96°29'11"	Brazos	29,900	--	76	25	53	1900	1941	1992
08109700	Middle Yegua Cr nr Dime Box, TX	30°20'21"	96°54'16"	Lee	236	--	38	38	0	1963	--	2000
08109800	East Yegua Cr nr Dime Box, TX	30°24'26"	96°49'02"	Burleson	244	--	38	38	0	1963	--	2000
08110000	Yegua Cr nr Somerville, TX	30°19'18"	96°30'26"	Burleson	1,010	--	67	42	25	1925	1967	1991
08110100	Davidson Cr nr Lyons, TX	30°25'10"	96°32'24"	Burleson	195	--	38	38	0	1963	--	2000
08110200	Brazos R at Washington, TX	30°21'40"	96°09'18"	Washington	31,600	--	28	0	28	--	1967	1994
08110325	Navasota R above Groesbeck, TX	31°34'27"	96°31'14"	Limestone	239	--	22	0	22	--	1979	2000
08110400	Navasota R nr Groesbeck, TX	31°30'44"	96°27'01"	Limestone	311	--	13	0	13	--	1966	1978
08110430	Big Cr nr Freestone, TX	31°30'24"	96°19'28"	Limestone	97.2	--	22	22	0	1979	--	2000
08110500	Navasota R nr Easterly, TX	31°10'12"	96°17'51"	Robertson	968	--	76	37	39	1925	1962	2000
08110800	Navasota R at Old Spanish Rd nr Bryan, TX	30°58'25"	96°14'29"	Robertson	1,287	--	3	0	3	--	1998	2000
08111000	Navasota R nr Bryan, TX	30°52'10"	96°11'32"	Brazos	1,450	--	46	10	36	1952	1962	1997
08111010	Navasota R nr College Station, TX	30°36'26"	96°10'53"	Grimes	1,810	--	8	0	8	--	1978	1985
08111025	Burton Cr at Villa Maria Rd, Bryan, TX	30°38'47"	96°20'58"	Brazos	1.33	--	2	2	0	1969	--	1970
08111050	Hudson Cr nr Bryan, TX	30°39'37"	96°17'58"	Brazos	1.94	--	2	2	0	1969	--	1970
08111500	Brazos R nr Hempstead, TX	30°07'44"	96°11'15"	Washington	34,300	--	62	2	60	1939	1941	2000
08111700	Mill Cr nr Bellville, TX	29°52'51"	96°12'18"	Austin	376	--	30	30	0	1964	--	1993
08114000	Brazos R at Richmond, TX	29°34'56"	95°45'27"	Fort Bend	35,400	--	80	20	60	1904	1941	2000
08114500	Brazos R nr Juliff, TX	29°27'19"	95°31'58"	Fort Bend	35,500	--	20	0	20	--	1950	1969

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
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<b>Brazos R Basin—Continued</b>												
08115000	Big Cr nr Needville, TX	29°28'35"	95°48'45"	Fort Bend	42.8	--	50	50	0	1948	--	2000
08115500	Fairchild Cr nr Needville, TX	29°26'45"	95°45'41"	Fort Bend	26.2	--	7	7	0	1948	--	1954
08116000	Big Cr nr Guy, TX	29°24'45"	95°42'36"	Fort Bend	116	--	2	2	0	1948	--	1949
08116400	Dry Cr nr Rosenberg, TX	29°30'42"	95°44'48"	Fort Bend	8.65	--	21	21	0	1959	--	1979
08116500	Dry Cr nr Richmond, TX	29°30'19"	95°42'41"	Fort Bend	12.2	--	3	3	0	1948	--	1957
08116650	Brazos R nr Rosharon, TX	29°20'58"	95°34'56"	Fort Bend	35,800	--	29	0	29	--	1968	2000
<b>San Bernard R Basin (Coastal Basin)</b>												
08117500	San Bernard R nr Boling, TX	29°18'48"	95°53'37"	Fort Bend	727	--	46	46	0	1955	--	2000
<b>Big Boggy Cr Basin (Coastal Basin)</b>												
08117900	Big Boggy Cr nr Wadsworth, TX	28°48'26"	95°57'02"	Matagorda	10.3	--	7	7	0	1971	--	1977
<b>Colorado R Basin</b>												
08117995	Colorado R nr Gail, TX	32°37'43"	101°17'06"	Borden	498	--	12	12	0	1989	--	2000
08118500	Bull Cr nr Ira, TX	32°36'00"	101°05'38"	Scurry	26.3	--	10	6	4	1948	1959	1962
08119000	Bluff Cr nr Ira, TX	32°35'29"	101°03'02"	Scurry	42.6	--	18	18	0	1948	--	1965
08119500	Colorado R nr Ira, TX	32°32'18"	101°03'12"	Scurry	1,110	--	36	5	31	1948	1959	1989
08120500	Deep Cr nr Dunn, TX	32°34'25"	100°54'27"	Scurry	188	--	33	33	0	1954	--	1986
08120700	Colorado R nr Cuthbert, TX	32°28'38"	100°56'58"	Mitchell	1,530	--	35	0	35	--	1966	2000
08121000	Colorado R at Colorado City, TX	32°23'33"	100°52'42"	Mitchell	1,590	--	54	5	49	1924	1952	2000
08121500	Morgan Cr nr Westbrook, TX	32°23'42"	101°01'32"	Mitchell	230	--	9	9	0	1955	--	1963
08122000	Graze Cr nr Westbrook, TX	32°35'03"	101°01'10"	Mitchell	21.7	--	5	5	0	1955	--	1959
08122500	Morgan Cr nr Colorado City, TX	32°23'17"	100°56'59"	Mitchell	270	--	1	1	0	1948	--	1948
08123500	Champion Cr nr Colorado City, TX	32°19'01"	100°49'28"	Mitchell	177	--	12	12	0	1948	--	1959
08123650	Beals Cr above Big Spring, TX	32°15'01"	101°29'26"	Howard	1,510	--	20	0	20	--	1960	1979
08123700	Beals Cr at Big Spring, TX	32°15'45"	101°26'30"	Howard	1,530	--	1	0	1	--	1958	1958
08123720	Beals Cr nr Coahoma, TX	32°14'56"	101°21'42"	Howard	1,570	--	4	0	4	--	1984	1987
08123800	Beals Cr nr Westbrook, TX	32°11'57"	101°00'49"	Mitchell	1,990	--	42	0	42	1959	--	2000
08123850	Colorado R above Silver, TX	32°03'13"	100°45'42"	Coke	4,650	--	33	0	33	--	1968	2000
08123900	Colorado R nr Silver, TX	32°01'10"	100°44'08"	Coke	4,740	--	14	0	14	--	1957	1970
08124000	Colorado R at Robert Lee, TX	31°53'07"	100°28'49"	Coke	5,050	--	51	17	34	1925	1953	2000
08126380	Colorado R nr Ballinger, TX	31°42'55"	100°01'34"	Runnels	6,110	--	93	61	32	1908	1969	2000
08127000	Elm Cr at Ballinger, TX	31°44'57"	99°56'51"	Runnels	450	--	68	49	19	1933	1982	2000
08128000	South Concho R at Christoval, TX	31°11'13"	100°30'06"	Tom Green	354	--	65	65	0	1931	--	1995
08128400	Middle Concho R above Tankersley, TX	31°25'38"	100°42'39"	Irion	1,610	--	34	34	0	1962	--	1995

Footnotes at end of table.



**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregu- lated	Regu- lated <sup>3</sup>	First unregu- lated	First regu- lated	Last year <sup>4</sup>
<b>Colorado R Basin—Continued</b>												
08128500	Middle Concho R nr Tankersley, TX	31°22'35"	100°36'50"	Tom Green	1,690	--	30	30	0	1931	--	1960
08129300	Spring Cr above Tankersley, TX	31°19'48"	100°38'24"	Tom Green	405	--	35	35	0	1961	--	1995
08129500	Dove Cr Spring nr Knickerbocker, TX	31°11'06"	100°43'51"	Irion	--	--	15	15	0	1958	--	--
08130500	Dove Cr at Knickerbocker, TX	31°16'26"	100°37'50"	Tom Green	198	--	35	35	0	1961	--	1995
08131000	Spring Cr nr Tankersley, TX	31°21'30"	100°32'05"	Tom Green	671	--	30	30	0	1931	--	1960
08131400	Pecan Cr nr San Angelo, TX	31°18'32"	100°26'44"	Tom Green	81.1	--	25	25	0	1962	--	1986
08132500	South Concho R at San Angelo, TX	31°26'45"	100°25'30"	Tom Green	2,690	--	22	0	22	--	1932	1953
08133500	North Concho R at Sterling City, TX	31°49'48"	100°59'36"	Sterling	568	--	46	46	0	1940	--	1985
08134000	North Concho R nr Carlsbad, TX	31°35'33"	100°38'12"	Tom Green	1,190	--	76	76	0	1925	--	2000
08135000	North Concho R at San Angelo, TX	31°27'57"	100°26'51"	Tom Green	1,450	--	55	16	39	1917	1952	1990
08136000	Concho R at San Angelo, TX	31°27'16"	100°24'37"	Tom Green	4,410	--	85	15	70	1916	1931	2000
08136500	Concho R at Painted Rock, TX	31°30'57"	99°55'09"	Concho	5,440	--	85	15	70	1916	1931	2000
08136700	Colorado R nr Stacy, TX	31°29'37"	99°34'25"	McCulloch	12,800	--	32	0	32	--	1969	2000
08137500	Mukewater Cr at Trickham, TX	31°35'24"	99°13'36"	Coleman	70.0	--	22	9	13	1952	1961	1973
08138000	Colorado R at Winchell, TX	31°28'04"	99°09'43"	Brown	13,800	--	67	22	45	1925	1952	2000
08139500	Deep Cr nr Mercury, TX	31°24'08"	99°07'17"	McCulloch	43.9	--	20	0	20	--	1954	1973
08140500	Dry Prong Deep Cr nr Mercury, TX	31°24'09"	99°08'13"	McCulloch	8.31	--	20	0	20	--	1952	1971
08140700	Pecan Bayou nr Cross Cut, TX	31°58'21"	99°07'48"	Brown	532	--	10	0	10	--	1969	1978
08140800	Jim Ned Cr nr Coleman, TX	31°58'59"	99°24'52"	Coleman	333	--	15	0	15	--	1966	1980
08141500	Hords Cr nr Valera, TX	31°50'03"	99°32'04"	Coleman	54.2	--	43	0	43	--	1948	1990
08142000	Hords Cr nr Coleman, TX	31°50'50"	99°25'25"	Coleman	107	--	30	7	23	1941	1948	1970
08143500	Pecan Bayou at Brownwood, TX	31°43'54"	98°58'25"	Brown	1,660	--	58	6	52	1925	1932	1983
08143600	Pecan Bayou nr Mullin, TX	31°31'02"	98°44'25"	Mills	2,070	--	33	0	33	--	1968	2000
08144500	San Saba R at Menard, TX	30°55'08"	99°47'07"	Menard	1,130	--	81	81	0	1916	--	2000
08144600	San Saba R nr Brady, TX	31°00'14"	99°16'07"	McCulloch	1,630	--	17	17	0	1980	--	2000
08144800	Brady Cr nr Eden, TX	31°11'03"	99°50'27"	Concho	101	--	23	0	23	--	1963	1985
08145000	Brady Cr at Brady, TX	31°08'17"	99°20'05"	McCulloch	588	--	47	15	32	1940	1955	1986
08146000	San Saba R at San Saba, TX	31°12'47"	98°43'09"	San Saba	3,040	--	81	47	34	1916	1963	2000
08147000	Colorado R nr San Saba, TX	31°13'04"	98°33'51"	San Saba	19,800	--	82	12	70	1917	1931	2000
08148500	North Llano R nr Junction, TX	30°31'06"	99°48'39"	Kimble	914	--	62	62	0	1916	--	1977
08150000	Llano R nr Junction, TX	30°30'15"	99°44'03"	Kimble	1,850	--	80	80	0	1916	--	2000
08150700	Llano R nr Mason, TX	30°39'38"	99°06'32"	Mason	3,240	--	27	27	0	1969	--	2000
08150800	Beaver Cr nr Mason, TX	30°38'36"	99°05'44"	Mason	215	--	37	37	0	1964	--	2000
08151000	Llano R nr Castell, TX	30°43'00"	98°53'00"	Llano	3,740	--	15	15	0	1925	--	1939

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Colorado R Basin—Continued</b>												
08151500	Llano R at Llano, TX	30°45'04"	98°40'10"	Llano	4,190	--	61	61	0	1940	--	2000
08152000	Sandy Cr nr Kingsland, TX	30°33'27"	98°28'19"	Llano	346	--	29	29	0	1967	--	2000
08152900	Pedernales R nr Fredericksburg, TX	30°13'13"	98°52'10"	Gillespie	369	--	16	16	0	1980	--	2000
08153000	Pedernales R at Stonewall, TX	30°15'00"	98°40'00"	Gillespie	647	--	10	10	0	1925	--	1934
08153500	Pedernales R nr Johnson City, TX	30°17'30"	98°23'57"	Blanco	901	--	61	61	0	1940	--	2000
08154000	Pedernales R nr Spicewood, TX	30°25'15"	98°04'50"	Travis	1,290	--	14	14	0	1925	--	1938
08154510	Colorado R below Mansfield Dam, Austin, TX	30°23'30"	97°54'28"	Travis	27,400	--	16	0	16	--	1975	1990
08154700	Bull Cr at Loop 360 nr Austin, TX	30°22'19"	97°47'04"	Travis	22.3	--	22	22	0	1979	--	2000
08155200	Barton Cr at SH 71 nr Oak Hill, TX	30°17'46"	97°55'31"	Travis	89.7	--	15	15	0	1979	--	2000
08155240	Barton Cr at Lost Cr Blvd nr Austin, TX	30°16'26"	97°50'40"	Travis	107	--	11	11	0	1990	--	2000
08155260	Barton Cr nr Camp Craft Rd nr Austin, TX	30°16'12"	97°49'43"	Travis	109	--	6	6	0	1983	--	1988
08155300	Barton Cr at Loop 360, Austin, TX	30°14'40"	97°48'07"	Travis	116	--	23	23	0	1978	--	2000
08155500	Barton Springs at Austin, TX	30°15'48"	97°46'16"	Travis	--	Yes	23	23	0	1979	--	2000
08156700	Shoal Cr at Northwest Park at Austin, TX	30°20'50"	97°44'41"	Travis	6.52	Yes	9	9	0	1976	--	1984
08156800	Shoal Cr at West 12th St, Austin, TX	30°16'35"	97°45'00"	Travis	12.3	Yes	16	16	0	1985	--	2000
08157000	Waller Cr at 38th St, Austin, TX	30°17'49"	97°43'36"	Travis	2.31	Yes	25	25	0	1956	--	1980
08157500	Waller Cr at 23d St, Austin, TX	30°17'08"	97°44'01"	Travis	4.13	Yes	25	25	0	1956	--	1980
08158000	Colorado R at Austin, TX	30°14'40"	97°41'39"	Travis	27,600	--	102	38	64	1899	1937	2000
08158050	Boggy Cr at US 183, Austin, TX	30°15'47"	97°40'20"	Travis	13.1	Yes	15	15	0	1978	--	2000
08158600	Walnut Cr at Webberville Rd, Austin, TX	30°16'59"	97°39'17"	Travis	51.3	Yes	34	34	0	1967	--	2000
08158700	Onion Cr nr Driftwood, TX	30°04'58"	98°00'27"	Hays	124	--	21	21	0	1980	--	2000
08158800	Onion Cr at Buda, TX	30°05'09"	97°50'52"	Hays	166	--	7	7	0	1980	--	1995
08158810	Bear Cr below FM 1826 nr Driftwood, TX	30°09'19"	97°56'23"	Hays	12.2	--	21	21	0	1980	--	2000
08158840	Slaughter Cr at FM 1826 nr Austin, TX	30°12'32"	97°54'11"	Travis	8.24	--	22	22	0	1979	--	2000
08158920	Williamson Cr at Oak Hill, TX	30°14'06"	97°51'36"	Travis	6.30	Yes	14	14	0	1979	--	1992
08158922	Williamson Cr at Brushy Country Blvd, Oak Hill, TX	30°13'34"	97°50'28"	Travis	6.79	--	7	7	0	1994	--	2000
08158970	Williamson Cr at Jimmy Clay Rd, Austin, TX	30°11'21"	97°43'56"	Travis	27.6	Yes	11	11	0	1976	--	1986
08159000	Onion Cr at US 183, Austin, TX	30°10'40"	97°41'18"	Travis	321	Yes	29	29	0	1925	--	2000
08159150	Wilbarger Cr nr Pflugerville, TX	30°27'16"	97°36'02"	Travis	4.61	--	17	17	0	1964	--	1980
08159165	Big Sandy Cr nr McDade, TX	30°18'18"	97°17'48"	Bastrop	38.7	--	6	6	0	1980	--	1985
08159170	Big Sandy Cr nr Elgin, TX	30°15'54"	97°19'39"	Bastrop	63.8	--	6	6	0	1980	--	1985
08159200	Colorado R at Bastrop, TX	30°06'16"	97°19'09"	Bastrop	28,600	--	40	0	40	--	1961	2000
08159500	Colorado R at Smithville, TX	30°00'45"	97°09'42"	Bastrop	29,100	--	48	6	42	1931	1937	2000
08160000	Dry Cr at Buescher Lake nr Smithville, TX	30°02'32"	97°09'34"	Bastrop	1.48	--	27	27	0	1940	--	1966

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Colorado R Basin—Continued</b>												
08160400	Colorado R above La Grange, TX	29°54'44"	96°54'13"	Fayette	29,500	--	12	0	12	--	1989	2000
08160500	Colorado R at La Grange, TX	29°53'45"	96°52'15"	Fayette	29,700	--	16	0	16	--	1940	1955
08160700	Colorado R above Columbus, TX	29°43'09"	96°34'16"	Colorado	29,900	--	2	0	2	--	1984	1985
08160800	Redgate Cr nr Columbus, TX	29°47'56"	96°31'55"	Colorado	17.3	--	38	38	0	1963	--	2000
08161000	Colorado R at Columbus, TX	29°42'22"	96°32'12"	Colorado	30,200	--	84	20	64	1917	1937	2000
08162000	Colorado R at Wharton, TX	29°18'32"	96°06'13"	Wharton	30,600	--	62	0	62	--	1939	2000
08162500	Colorado R nr Bay City, TX	28°58'26"	96°00'44"	Matagorda	30,800	--	52	0	52	--	--	2000
<b>Tres Palacios R Basin (Coastal Basin)</b>												
08162600	Tres Palacios R nr Midfield, TX	28°55'40"	96°10'15"	Matagorda	145	--	30	30	0	1971	--	2000
<b>Lavaca R Basin</b>												
08163500	Lavaca R at Hallettsville, TX	29°26'35"	96°56'41"	Lavaca	108	--	53	53	0	1940	--	1992
08164000	Lavaca R nr Edna, TX	28°57'35"	96°41'10"	Jackson	817	--	62	62	0	1939	--	2000
08164300	Navidad R nr Hallettsville, TX	29°28'00"	96°48'45"	Lavaca	332	--	39	39	0	1962	--	2000
08164350	Navidad R nr Speaks, TX	29°19'18"	96°42'32"	Lavaca	437	--	12	12	0	1982	--	2000
08164370	Navidad R at Morales, TX	29°08'07"	96°44'39"	Jackson	549	--	4	4	0	1997	--	2000
08164390	Navidad R at Strane Park nr Edna, TX	29°03'55"	96°40'26"	Jackson	549	--	4	4	0	1997	--	2000
08164450	Sandy Cr nr Ganado, TX	29°09'36"	96°32'46"	Jackson	289	--	23	23	0	1978	--	2000
08164500	Navidad R nr Ganado, TX	29°01'32"	96°33'08"	Jackson	826	--	40	40	0	1940	--	1979
08164503	West Mustang Cr nr Ganado, TX	29°04'17"	96°28'01"	Jackson	178	--	22	22	0	1978	--	2000
08164504	East Mustang Cr nr Louise, TX	29°04'14"	96°25'01"	Wharton	90.8	--	4	4	0	1997	--	2000
<b>Garcitas Cr Basin (Coastal Basin)</b>												
08164600	Garcitas Cr nr Inez, TX	28°53'28"	96°49'08"	Victoria	91.7	--	30	30	0	1971	--	2000
<b>Placedo Cr Basin (Coastal Basin)</b>												
08164800	Placedo Cr nr Placedo, TX	28°43'30"	96°46'07"	Victoria	68.3	--	30	30	0	1971	--	2000
<b>Guadalupe R Basin</b>												
08165300	North Fk Guadalupe R nr Hunt, TX	30°03'50"	99°23'12"	Kerr	168	--	33	33	0	1968	--	2000
08165500	Guadalupe R at Hunt, TX	30°04'11"	99°19'17"	Kerr	288	--	35	35	0	1966	--	2000
08166000	Johnson Cr nr Ingram, TX	30°06'00"	99°16'58"	Kerr	114	--	50	50	0	1942	--	1993
08166140	Guadalupe R above Bear Cr at Kerrville, TX	30°04'10"	99°11'42"	Kerr	494	--	7	7	0	1979	--	1985
08166200	Guadalupe R at Kerrville, TX	30°03'11"	99°09'47"	Kerr	510	--	14	14	0	1987	--	2000
08166500	Guadalupe R nr Comfort, TX	29°56'57"	98°53'32"	Kerr	762	--	13	13	0	1920	--	1932
08167000	Guadalupe R at Comfort, TX	29°58'10"	98°53'33"	Kendall	839	--	61	61	0	1940	--	2000
08167500	Guadalupe R nr Spring Branch, TX	29°51'37"	98°23'00"	Comal	1,320	--	78	78	0	1923	--	2000

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Guadalupe R Basin—Continued</b>												
08167600	Rebecca Cr nr Spring Branch, TX	29°55'06"	98°22'10"	Comal	10.9	--	18	13	5	1961	1974	1978
08167800	Guadalupe R at Sattler, TX	29°51'32"	98°10'47"	Comal	1,440	--	40	2	38	1961	1963	2000
08168500	Guadalupe R above Comal R at New Braunfels, TX	29°42'53"	98°06'35"	Comal	1,520	--	72	34	38	1929	1963	2000
08168710	Comal Springs at New Braunfels, TX	29°42'21"	98°07'20"	Comal	--	--	72	72	0	1929	--	2000
08169000	Comal R at New Braunfels, TX	29°42'21"	98°07'20"	Comal	130	Yes	72	45	27	1929	1974	2000
08169500	Guadalupe R at New Braunfels, TX	29°41'52"	98°06'23"	Comal	1,650	--	13	13	0	1916	--	2000
08170000	San Marcos R springflow at San Marcos, TX	29°53'20"	97°56'02"	Hays	--	Yes	44	44	0	1957	--	2000
08170500	San Marcos R at San Marcos, TX	29°53'20"	97°56'02"	Hays	47	Yes	6	6	0	1995	--	2000
08171000	Blanco R at Wimberley, TX	29°59'39"	98°05'19"	Hays	355	--	73	73	0	1925	--	2000
08171300	Blanco R nr Kyle, TX	29°58'45"	97°54'35"	Hays	412	--	44	44	0	1957	--	2000
08172000	San Marcos R at Luling, TX	29°39'58"	97°39'02"	Caldwell	838	--	61	44	17	1940	1984	2000
08172400	Plum Cr at Lockhart, TX	29°55'22"	97°40'44"	Caldwell	112	--	41	4	37	1960	1964	2000
08172500	Plum Cr nr Lockhart, TX	29°49'17"	97°35'02"	Caldwell	184	--	4	4	0	1926	--	1929
08173000	Plum Cr nr Luling, TX	29°41'58"	97°36'12"	Caldwell	309	--	63	33	30	1931	1964	1993
08173500	San Marcos R at Ottine, TX	29°35'36"	97°35'22"	Gonzales	1,250	--	27	27	0	1916	--	1942
08173900	Guadalupe R at Gonzales, TX	29°29'03"	97°27'00"	Gonzales	3,490	--	4	4	0	1997	--	2000
08174600	Peach Cr below Dilworth, TX	29°28'26"	97°18'59"	Gonzales	460	--	20	20	0	1960	--	1979
08175000	Sandies Cr nr Westhoff, TX	29°12'54"	97°26'57"	De Witt	549	--	45	45	0	1931	--	2000
08175800	Guadalupe R at Cuero, TX	29°03'57"	97°19'16"	De Witt	4,930	--	36	0	36	--	1965	2000
08176000	Guadalupe R below Cuero, TX	29°03'05"	97°15'52"	De Witt	4,920	--	18	18	0	1906	--	1935
08176500	Guadalupe R at Victoria, TX	28°47'34"	97°00'46"	Victoria	5,200	--	65	26	39	1936	1962	2000
08176550	Fifteenmile Cr nr Weser, TX	28°53'51"	97°21'17"	De Witt	167	--	5	5	0	1985	--	1989
08176900	Coleto Cr at Arnold Rd nr Schroeder, TX	28°51'41"	97°13'34"	Goliad	357	--	18	18	0	1979	--	1996
08176990	Coleto Cr Reservoir inflow nr Schroeder, TX	28°50'21"	97°11'20"	Victoria	354	--	13	0	13	--	1981	1993
08177000	Coleto Cr nr Schroeder, TX	28°49'53"	97°11'10"	Victoria	369	--	30	30	0	1931	--	1979
08177300	Perdido Cr at FM 622 nr Fannin, TX	28°45'05"	97°19'01"	Goliad	28.0	--	13	13	0	1979	--	1991
08177500	Coleto Cr nr Victoria, TX	28°43'51"	97°08'18"	Victoria	514	--	37	17	20	1940	1981	2000
08177520	Guadalupe R nr Bloomington, TX	28°39'42"	96°57'54"	Victoria	5,816	--	1	0	1	--	2000	2000
<b>San Antonio R Basin</b>												
08177700	Olmos Cr at Desden Dr, San Antonio, TX	29°29'56"	98°30'36"	Bexar	21.2	Yes	13	13	0	1969	--	1981
08178000	San Antonio R at San Antonio, TX	29°24'34"	98°29'41"	Bexar	41.8	Yes	71	9	62	1916	1926	2000
08178050	San Antonio R at Mitchell St, San Antonio,	29°23'34"	98°29'40"	Bexar	42.4	Yes	8	0	8	--	1993	2000
08178500	San Pedro Cr at Furnish St, San Antonio, TX	29°24'22"	98°30'38"	Bexar	2.64	--	12	12	0	1917	--	1929
08178565	San Antonio R at Loop 410 at San Antonio, TX	29°19'19"	98°27'00"	Bexar	--	Yes	14	0	14	--	1987	2000

Footnotes at end of table.

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<b>San Antonio R Basin—Continued</b>												
08178585	Salado Cr at Wilderness Rd at San Antonio, TX	29°37'50"	98°33'55"	Bexar	23	--	3	0	3	--	1998	2000
08178700	Salado Cr (Upper Station) at San Antonio, TX	29°30'57"	98°25'51"	Bexar	137	Yes	40	12	28	1961	1973	2000
08178800	Salado Cr (Lower Station) at San Antonio, TX	29°21'25"	98°24'45"	Bexar	189	Yes	40	12	28	1961	1973	2000
08178880	Medina R at Bandera, TX	29°43'25"	99°04'11"	Bandera	427	--	18	18	0	1983	--	2000
08179000	Medina R nr Pipe Cr , TX	29°40'31"	98°58'33"	Bandera	474	--	41	41	0	1924	--	1982
08179100	Red Bluff Cr nr Pipe Cr , TX	29°40'51"	98°57'19"	Bandera	56.3	--	25	25	0	1957	--	1981
08180500	Medina R nr Riomedina, TX	29°29'53"	98°54'16"	Medina	650	--	32	0	32	--	1923	1973
08180640	Medina R at La Coste, TX	29°19'26"	98°48'46"	Medina	805	--	13	0	13	--	1988	2000
08180700	Medina R nr MacDona, TX	29°20'05"	98°41'22"	Bexar	885	--	17	0	17	--	1982	2000
08180750	Medio Cr at Pearsall Rd at San Antonio, TX	29°19'40"	98°38'19"	Bexar	47.9	--	8	8	0	1988	--	1995
08180800	Medina R nr Somerset, TX	29°15'43"	98°34'52"	Bexar	967	--	28	0	28	--	1971	2000
08181400	Helotes Cr at Helotes, TX	29°34'42"	98°41'29"	Bexar	15.0	--	32	32	0	1969	--	2000
08181410	Ranch Cr nr Helotes, TX	29°36'06"	98°43'26"	Bexar	.39	--	1	1	0	1978	--	1978
08181450	Leon Cr trib at Kelly Air Force Base, TX	29°23'12"	98°36'00"	Bexar	1.19	Yes	10	10	0	1970	--	1979
08181480	Leon Cr at IH-35 at San Antonio, TX	29°19'47"	98°35'02"	Bexar	219	Yes	16	16	0	1985	--	2000
08181500	Medina R at San Antonio, TX	29°15'14"	98°28'20"	Bexar	1,320	--	61	0	61	--	1940	2000
08181800	San Antonio R nr Elmendorf, TX	29°13'19"	98°21'20"	Bexar	1,740	--	38	0	38	--	1963	2000
08182500	Calaveras Cr nr Elemendorf, TX	29°15'38"	98°17'34"	Bexar	77.2	--	17	0	17	--	1955	1971
08183000	San Antonio R at Calaveras, TX	29°12'54"	98°15'39"	Wilson	1,790	--	6	0	6	--	1919	1924
08183500	San Antonio R nr Falls City, TX	28°57'05"	98°03'50"	Karnes	2,110	--	75	0	75	--	1926	2000
08183850	Cibolo Cr at IH-10 above Boerne, TX	29°48'52"	98°45'12"	Kendall	29	--	5	0	5	--	1996	2000
08183900	Cibolo Cr nr Boerne, TX	29°46'26"	98°41'50"	Kendall	68.4	--	33	15	18	1963	1978	1995
08184000	Cibolo Cr nr Bulverde, TX	29°43'33"	98°25'37"	Comal	198	--	19	19	0	1947	--	1965
08185000	Cibolo Cr at Selma, TX	29°35'38"	98°18'39"	Bexar	274	--	54	33	21	1947	1980	2000
08185500	Cibolo Cr at Sutherland Springs, TX	29°16'47"	98°03'10"	Wilson	665	--	4	4	0	1925	--	1928
08186000	Cibolo Cr nr Falls City, TX	29°00'50"	97°55'48"	Karnes	827	--	70	70	0	1931	--	2000
08186500	Ecleto Cr nr Runge, TX	28°55'12"	97°46'19"	Karnes	239	--	27	27	0	1963	--	1989
08187500	Escondido Cr at Kenedy, TX	28°49'11"	97°51'32"	Karnes	72.4	--	19	0	19	--	1955	1973
08188000	Dry Escondido Cr nr Kenedy, TX	28°51'41"	97°50'14"	Karnes	9.43	--	5	0	5	--	1955	1959
08188500	San Antonio R at Goliad, TX	28°38'58"	97°23'04"	Goliad	3,920	--	65	0	65	--	1925	2000
<b>Copano Cr Basin (Coastal Basin)</b>												
08189200	Copano Cr nr Refugio, TX	28°18'12"	97°06'44"	Refugio	87.8	--	30	30	0	1971	--	2000

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<b>Mission R Basin</b>												
08189300	Medio Cr nr Beeville, TX	28°28'58"	97°39'23"	Bee	204	--	15	15	0	1963	--	1977
08189500	Misson R at Refugio, TX	28°17'30"	97°16'44"	Refugio	690	--	61	61	0	1940	--	2000
<b>Aransas R Basin</b>												
08189700	Aransas R nr Skidmore, TX	28°28'58"	97°39'23"	Bee	247	--	36	36	0	1965	--	2000
08189800	Chiltipin Cr at Sinton, TX	28°17'30"	97°16'44"	San Patricio	128	--	21	21	0	1971	--	1991
<b>Nueces R Basin</b>												
08190000	Nueces R at Laguna, TX	29°25'42"	99°59'49"	Uvalde	737	--	77	77	0	1924	--	2000
08190500	West Nueces R nr Brackettville, TX	29°28'21"	100°14'10"	Kinney	694	--	55	55	0	1940	--	2000
08192000	Nueces R below Uvalde, TX	29°07'25"	99°53'40"	Uvalde	1,860	--	73	73	0	1928	--	2000
08192500	Nueces R nr Cinonia, TX	28°47'00"	99°50'00"	Zavala	2,150	--	7	7	0	1916	--	1924
08193000	Nueces R nr Asherton, TX	28°30'00"	99°40'54"	Dimmit	4,080	--	61	9	52	1940	1949	2000
08194000	Nueces R at Cotulla, TX	28°25'34"	99°14'23"	La Salle	5,170	--	74	22	52	1927	1949	2000
08194200	San Casimiro Cr nr Freer, TX	27°57'53"	98°58'00"	Webb	469	--	38	38	0	1963	--	2000
08194500	Nueces R nr Tilden, TX	28°18'31"	98°33'25"	McMullen	8,090	--	57	5	52	1944	1949	2000
08194600	Nueces R at Simmons, TX	28°25'16"	98°17'03"	Live Oak	8,560	--	12	12	0	1966	--	1977
08195000	Frio R at Concan, TX	29°29'18"	99°42'16"	Uvalde	389	--	75	75	0	1925	--	2000
08196000	Dry Frio R nr Reagan Wells, TX	29°30'16"	99°46'52"	Uvalde	126	--	48	48	0	1953	--	2000
08197500	Frio R below Dry Frio R nr Uvalde, TX	29°14'44"	99°40'27"	Uvalde	631	--	48	48	0	1953	--	2000
08198000	Sabinal R nr Sabinal, TX	29°29'27"	99°29'33"	Uvalde	206	--	58	58	0	1943	--	2000
08198500	Sabinal R at Sabinal, TX	29°18'05"	99°28'46"	Uvalde	241	--	48	48	0	1953	--	200
08200000	Hondo Cr nr Tarpley, TX	29°34'10"	99°14'47"	Medina	95.6	--	48	48	0	1953	--	2000
08200500	Hondo Cr nr Hondo, TX	29°27'05"	99°11'07"	Medina	132	--	12	12	0	1953	--	1964
08200700	Hondo Cr at King Waterhole nr Hondo, TX	29°23'26"	99°09'04"	Medina	149	--	40	40	0	1961	--	2000
08201500	Seco Cr at Miller Ranch nr Utopia, TX	29°34'23"	99°24'10"	Medina	45.0	--	39	39	0	1962	--	2000
08202000	Seco Cr nr Utopia, TX	29°33'01"	99°24'22"	Medina	53.2	--	9	9	0	1953	--	1961
08202450	Seco Cr Reservoir inflow nr Utopia, TX	29°31'34"	99°23'42"	Medina	59.5	--	7	7	0	1992	--	1998
08202490	Seco Cr Reservoir outflow nr Utopia, TX	29°30'58"	99°23'51"	Medina	60.5	--	5	5	0	1992	--	1996
08202500	Seco Cr nr DiHanis, TX	29°29'20"	99°23'16"	Medina	87.4	--	12	12	0	1953	--	1964
08202700	Seco Cr at Rowe Ranch nr DiHanis, TX	29°21'43"	99°17'05"	Medina	168	--	39	39	0	1962	--	2000
08202790	Parkers Cr Reservoir inflow nr DiHanis, TX	29°27'27"	99°15'16"	Medina	9.34	--	5	5	0	1992	--	1996
08202810	Parkers Cr Reservoir outflow nr DiHanis, TX	29°26'38"	99°15'09"	Medina	10.0	--	5	0	5	--	1992	1996
08202900	Seco Cr nr Yancey, TX	29°08'03"	99°12'19"	Medina	253	--	5	5	0	1992	--	1996
08204000	Leona R springflow nr Uvalde, TX	29°09'15"	99°44'35"	Uvalde	--	--	26	26	0	1940	--	1965
08204500	Leona R nr Divot, TX	28°47'34"	99°14'27"	Frio	565	--	3	3	0	1925	--	1928

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Nueces R Basin—Continued</b>												
08205500	Frio R nr Derby, TX	28°44'11"	99°08'40"	Frio	3,430	--	85	85	0	1916	--	2000
08206600	Frio R at Tilden, TX	28°28'02"	98°32'50"	McMullen	4,490	--	22	22	0	1979	--	2000
08206700	San Miguel Cr nr Tilden, TX	28°35'14"	98°32'44"	McMullen	783	--	36	36	0	1965	--	2000
08207000	Frio R at Calliham, TX	28°29'31"	98°20'47"	McMullen	5,490	--	49	49	0	1925	--	1980
08208000	Atascosa R at Whitsett, TX	28°37'19"	98°16'52"	Live Oak	1,170	--	68	68	0	1933	--	2000
08210000	Nueces R nr Three Rivers, TX	28°25'38"	98°10'40"	Live Oak	15,400	--	85	67	18	1916	1983	2000
08210300	Ramirena Cr nr George West, TX	28°08'30"	98°06'11"	Live Oak	84.4	--	3	3	0	1969	--	1971
08210400	Lagarto Cr nr George West, TX	28°03'34"	98°05'48"	Live Oak	155	--	17	17	0	1973	--	1989
08211000	Nueces R nr Mathis, TX	28°02'17"	97°51'36"	San Patricio	16,700	--	61	0	61	--	1940	2000
<b>Oso Cr Basin (Coastal Basin)</b>												
08211520	Oso Cr at Corpus Christi, TX	27°42'40"	97°30'06"	Nueces	90.3	--	28	28	0	1973	--	2000
<b>San Fernando Cr Basin</b>												
08211800	San Diego Cr at Alice, TX	27°45'59"	98°04'31"	Jim Wells	319	--	26	0	26	--	1964	1989
08211900	San Fernando Cr at Alice, TX	27°46'20"	98°02'00"	Jim Wells	507	--	23	0	23	--	1966	2000
08212000	San Fernando Cr nr Alice, TX	27°43'30"	97°59'15"	Jim Wells	518	--	1	1	0	1963	--	1963
08212400	Los Olmos Cr nr Falfurrias, TX	27°15'51"	98°08'08"	Brooks	476	--	18	18	0	1968	--	2000
08212500	Upper Madero Canal nr Kingsville, TX	27°33'28"	97°43'25"	Kleberg	40	--	4	4	0	1996	0	1999
08212600	Chiltipin Canal nr Kingsville, TX	27°33'33"	97°38'26"	Kleberg	35	--	4	4	0	1996	0	1999
08212700	Pinto Cr Canal nr Kingsville, TX	27°28'57"	97°43'29"	Kleberg	44	--	4	4	0	1996	0	1999
08212800	Lower Madero Canal nr Kingsville, TX	27°27'55"	97°40'02"	Kleberg	38	--	4	4	0	1996	0	1999
08212900	Tunas Cr nr Kingsville, TX	27°28'23"	97°34'42"	Kleberg	10	--	4	4	0	1996	0	1999
<b>Rio Grande Basin</b>												
08363840	Rio Grande at Vinton Bridge nr Anthony, TX	31°57'32"	106°36'17"	El Paso	28,700	--	4	0	4	--	1971	1974
08365600	McKelligon Canyon at El Paso, TX	31°49'20"	106°28'09"	El Paso	2.30	--	20	0	20	--	1958	1977
08365800	Government Ditch at El Paso, TX	31°47'02"	106°26'41"	El Paso	6.40	Yes	19	19	0	1959	--	1977
08373200	Cibolo Cr nr Presidio, TX	29°34'50"	104°21'55"	Presidio	276	--	6	6	0	1972	--	1977
08376300	Sanderson Canyon at Sanderson, TX	30°07'46"	102°23'06"	Terrell	195	--	12	12	0	1969	--	1980
08407500	Pecos R at Red Bluff, NM	32°04'30"	104°02'21"	Eddy	19,500	--	63	0	63	--	1938	2000
08408500	Delaware R nr Red Bluff, NM	32°01'23"	104°03'15"	Eddy	689	--	63	63	0	1938	--	2000
08409500	Pecos R nr Angeles, TX	32°02'00"	104°00'00"	Reeves	20,500	--	23	23	0	--	1915	1937
08411500	Salt Screwbean Draw nr Orla, TX	31°52'40"	103°56'50"	Reeves	464	--	15	15	0	1940	--	1957
08412500	Pecos R nr Orla, TX	31°52'21"	103°49'52"	Reeves	21,200	--	59	0	59	--	1938	1996
08414000	Pecos R nr Mentone, TX	31°40'07"	103°37'34"	Reeves	21,700	--	6	3	3	1923	1970	1972

Footnotes at end of table.

**Table 2.** Inventory of daily mean streamflows for active and discontinued streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	County	Contributing drainage area (mi <sup>2</sup> )	Urban basin <sup>1</sup>	Years of record <sup>2</sup>			Begin and end year <sup>2</sup>		
							Total	Unregulated	Regulated <sup>3</sup>	First unregulated	First regulated	Last year <sup>4</sup>
<b>Rio Grande Basin—Continued</b>												
08416500	Pecos R above Barstow, TX	31°35'00"	103°30'00"	Reeves	21,600	--	4	4	0	1917	--	1920
08420500	Pecos R at Pecos, TX	31°26'11"	103°28'01"	Reeves	22,100	--	21	0	21	--	1900	1954
08424500	Madera Canyon nr Toyahvale, TX	30°52'04"	103°58'09"	Jeff Davis	53.8	--	17	17	0	1933	--	1949
08425500	Phantom Lake Springs nr Toyahvale, TX	30°56'01"	103°50'43"	Jeff Davis	--	--	25	25	0	1933	--	1966
08427000	Giffin Springs at Toyahvale, TX	30°56'51"	103°47'19"	Reeves	--	--	2	2	0	1932	--	1933
08427500	San Solomon Springs at Toyahvale, TX	30°56'34"	103°47'16"	Reeves	--	--	26	26	0	1932	--	1965
08430000	East Sandia Spring at Balmorhea, TX	30°59'00"	103°43'30"	Reeves	--	--	1	1	0	1933	--	1933
08431000	Toyah Cr nr Pecos, TX	31°16'50"	103°27'31"	Reeves	1,020	--	3	0	3	--	1940	1945
08431500	Salt Draw nr Pecos, TX	31°18'54"	103°29'07"	Reeves	1,880	--	3	0	3	--	1940	1945
08431700	Limpia Cr above Fort Davis, TX	30°36'48"	104°00'04"	Jeff Davis	52.4	--	20	20	0	1967	--	1986
08431800	Limpia Cr below Fort Davis, TX	30°40'52"	103°47'30"	Jeff Davis	227	--	15	15	0	1963	--	1977
08432000	Limpia Cr nr Fort Davis, TX	30°47'00"	103°45'00"	Jeff Davis	303	--	5	5	0	1927	--	1931
08433000	Barrilla Draw nr Saragosa, TX	30°57'28"	103°27'33"	Reeves	612	--	8	8	0	1976	--	1983
08434000	Toyah Cr below Toyah Lake nr Pecos, TX	31°21'00"	103°24'00"	Reeves	3,710	--	12	0	12	--	1940	1951
08435500	Pecos R below Barstow, TX	31°25'00"	103°15'00"	Ward	26,000	--	1	0	1	--	1940	1940
08435600	Toronto Cr nr Alpine, TX	30°21'30"	103°42'48"	Brewster	27.9	--	5	5	0	1972	--	1976
08435620	Alpine Cr at Alpine, TX	30°21'06"	103°40'00"	Brewster	18.1	--	5	5	0	1972	--	1976
08435660	Moss Cr nr Alpine, TX	30°20'10"	103°38'24"	Brewster	11.3	--	5	5	0	1972	--	1976
08435700	Sunny Glen Canyon nr Alpine, TX	30°22'52"	103°44'08"	Brewster	29.7	--	9	9	0	1969	--	1977
08435800	Coyanosa Draw nr Fort Stockton, TX	31°02'27"	103°08'15"	Pecos	1,180	--	13	13	0	1965	--	1977
08438100	Pecos R nr Grandfalls, TX	31°19'18"	102°53'33"	Ward	27,800	--	6	0	6	--	1917	1925
08441500	Pecos R below Grandfalls, TX	31°17'00"	102°44'32"	Crane	27,800	--	20	0	20	--	1923	1956
08444500	Comanche Springs at Fort Stockton, TX	30°53'20"	102°51'59"	Pecos	--	--	23	23	0	1942	--	1964
08446500	Pecos R nr Girvin, TX	31°06'47"	102°25'02"	Pecos	29,600	--	61	0	61	--	1940	2000
08447000	Pecos R nr Sheffield, TX	30°39'34"	101°46'11"	Pecos	31,600	--	13	0	13	--	1922	1949
08447020	Independence Cr nr Sheffield, TX	30°27'07"	101°43'58"	Terrell	763	--	11	11	0	1975	--	1985
08449000	Devils R nr Juno, TX	29°57'48"	101°08'42"	Val Verde	2,730	--	34	34	0	1926	--	1973

<sup>1</sup> An urban basin has at least 10-percent impervious cover.<sup>2</sup> Record might not be continuous from begin year to end year. Partial-record data exist for some stations outside period of record indicated.<sup>3</sup> A regulated basin has at least 10 percent of its contributing drainage area controlled by at least one reservoir.<sup>4</sup> Inventory includes data through 2000 water year. Most stations with end year of 2000 are still in operation.



**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas

[mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; ft, feet; ft<sup>2</sup>, square feet; ft/s, feet per second; --, not available; FTW, Fort Worth]

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Stream-flow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
07227500	Canadian R nr Amarillo, TX	35°28'13"	101°52'45"	15,376	27	1.99	82.50	41.80	0.67	0.51	2,989.16
07228000	Canadian R nr Canadian, TX	35°56'06"	100°22'13"	18,178	40	2.67	78	34	1.17	.44	2,301.5
07235000	Wolf Cr at Lipscomb, TX	36°14'19"	100°16'31"	475	2.6	3.24	22.5	8.11	.31	.36	2,371.29
07297910	Prairie Dog Town Fk Red R nr Wayside, TX	34°50'15"	101°24'49"	930	2.2	7.24	15.5	2.92	.74	.19	2,463.74
07299540	Prairie Dog Town Fk Red R nr Childress, TX	34°34'09"	100°11'37"	2,958	4.7	8.12	43.7	7.01	.71	.16	1,628.4
07299670	Groesbeck Cr at SH 6 nr Quanah, TX	34°21'16"	99°44'24"	303	7.1	6.31	14	9.96	.76	.71	1,425.69
07299890	Lelia Lake Cr below Bell Cr nr Hedley, TX	34°56'08"	100°41'46"	74	3.3	2.83	17.5	4.77	.71	.27	2,417
07300000	Salt Fk Red R nr Wellington, TX	34°57'27"	100°13'14"	1,013	17	3.09	66.6	18.1	.95	.27	1,941.41
07301200	McClellan Cr nr McLean, TX	35°19'45"	100°36'32"	460	6.4	4.21	10.5	6.54	.94	.62	2,545.99
07301300	North Fk Red R nr Shamrock, TX	35°15'51"	100°14'29"	703	57	2.59	65	36.2	1.53	.56	2,165.55
07301410	Sweetwater Cr nr Kelton, TX	35°28'23"	100°07'14"	267	10	6.06	19.5	20	.48	1.03	2,230
07307800	Pease R nr Childress, TX	34°13'39"	100°04'24"	2,195	9.2	7.12	29	13.8	.69	.48	1,492.98
07308200	Pease R nr Vernon, TX	34°10'45"	99°16'40"	2,929	16	7.58	41	19.2	.88	.47	1,166.03
07308500	Red R nr Burkburnett, TX	34°06'36"	98°31'53"	14,634	313	3.25	203	237	1.3	1.17	952.57
07311600	North Wichita R nr Paducah, TX	33°57'02"	100°03'52"	540	11	2.76	50	13.6	.81	.27	1,530
07311630	Middle Wichita R nr Guthrie, TX	33°47'45"	100°04'29"	50.3	6.1	7.91	8.7	9.04	.70	1.04	1,583.9
07311700	North Wichita R nr Truscott, TX	33°49'14"	99°47'10"	937	20	4.56	25.5	18.2	1.08	.71	1,351.78
07311783	South Wichita R below low flow dam nr Guthrie, TX	33°37'19"	100°12'31"	223	.06	2.96	1.2	.22	.28	.18	1,590
07311800	South Wichita R nr Benjamin, TX	33°38'39"	99°48'02"	584	6.9	5.25	11.9	9.33	.75	.78	1,334.23
07311900	Wichita R nr Seymour, TX	33°42'01"	99°23'18"	1,874	31	6.49	68	47.8	.71	.70	1,152.7
07312100	Wichita R nr Mabelle, TX	33°45'36"	99°08'33"	2,086	13	2.77	27	11.6	1.12	.43	1,062.72
07312110	South Side Canal nr Dundee, TX	33°48'50"	98°55'57"	2,194	54	4.51	36	25.6	2.06	.71	1,039.7
07312130	Wichita R at SH 25 nr Kamay, TX	33°52'09"	98°50'20"	2,246	9.0	8.27	14	7.99	1.08	.57	923
07312200	Beaver Cr nr Electra, TX	33°54'21"	98°54'17"	652	5.6	8.71	10.7	6.06	1.0	.57	991.3
07312500	Wichita R at Wichita Falls, TX	33°54'34"	98°32'00"	1,054	83	2.8	68.3	66.6	1.27	.98	924.26
07312700	Wichita R nr Charlie, TX	34°03'11"	98°17'47"	3,439	140	5.36	62.5	83.3	1.67	1.33	872.71
07314500	Little Wichita R nr Archer City, TX	33°39'45"	98°36'46"	481	.31	4.31	2.65	.37	.84	.14	934.72
07314900	Little Wichita R above Henrietta, TX	33°49'36"	98°14'23"	1,037	0	--	--	--	--	--	831.57
07315200	East Fk Little Wichita R nr Henrietta, TX	33°48'46"	98°05'05"	178	.14	5.89	3.0	.45	.30	.15	825.32
07331600	Red River at Denison Dam nr Denison, TX	33°49'08"	96°33'47"	39,720	2,790	6.96	333	1,589	1.48	4.77	495
07342465	South Sulphur R at Commerce, TX	33°12'42"	95°54'50"	150	2.9	4.06	9.25	3.85	.80	.42	460.74
07342480	Middle Sulphur R at Commerce, TX	33°15'59"	95°54'55"	44.1	.52	3.1	3.8	.74	.69	.19	470
07342500	South Sulphur R nr Cooper, TX	33°21'23"	95°35'41"	527	19	2.11	20	17.4	1.07	.87	379.91
07343000	North Sulphur R nr Cooper, TX	33°28'29"	95°35'15"	276	11	4.74	36	28.7	.38	.80	372.42

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
07343210	Sulphur R below Talco, TX	33°23'26"	95°03'44"	1,405	276	9.5	76	250	1.11	3.29	275.48
07343500	White Oak Cr nr Talco, TX	33°19'20"	95°05'33"	494	57	3.17	78	176	.33	2.26	286.45
07344486	Brushy Cr at Scroggins, TX	32°58'32"	95°11'03"	23.4	7.2	8.22	16	14	.52	.88	343.9
07344500	Big Cypress Cr nr Pittsburg, TX	33°01'15"	94°52'55"	366	33	6.03	34.3	67.7	.50	1.97	247.49
07346000	Big Cypress Cr nr Jefferson, TX	32°44'58"	94°29'55"	850	182	7.4	112	658.5	.29	5.91	180
07346045	Black Cypress Bayou at Jefferson, TX	32°46'40"	94°21'26"	365	168	7.4	66.3	337	.51	5.09	171.47
07346050	Little Cypress Creek nr Ore City, TX	32°40'21"	94°45'03"	383	73	4.63	70	204	.37	2.91	232.67
07346070	Little Cypress Creek nr Jefferson, TX	32°42'46"	94°20'45"	675	182	5.34	81.5	403.5	.42	4.95	174.6
08017200	Cowleech Fk Sabine R at Greenville, TX	33°07'58"	96°04'36"	77.7	1.4	2.78	9.0	6.21	.22	.69	485.07
08017300	South Fk Sabine R nr Quinlan, TX	32°53'52"	96°15'11"	78.7	.46	3.89	5.15	1.11	.45	.21	461.4
08017410	Sabine R nr Wills Point, TX	32°48'22"	95°55'09"	756	22	1.95	28	18.7	1.29	.67	370
08018500	Sabine R nr Mineola, TX	32°36'49"	95°29'08"	1,357	142	4.43	49	214	.64	4.37	304.16
08019000	Lake Fk Cr nr Quitman, TX	32°45'47"	95°27'46"	585	43	4.21	26	66.6	.71	2.56	317.42
08019200	Sabine R nr Hawkins, TX	32°33'35"	95°12'23"	2,259	468	7.44	85	628	.82	7.39	279
08019500	Big Sandy Cr nr Big Sandy, TX	32°36'14"	95°05'29"	231	78	5.74	39.2	111	.67	2.83	278.38
08020000	Sabine R nr Gladewater, TX	32°31'37"	94°57'36"	2,791	552	7.62	100	389	1.37	3.89	243.85
08020450	Sabine R above Longview, TX	32°28'47"	94°48'15"	2,943	161	4.63	58	111	1.42	1.91	230
08020900	Sabine R below Longview, TX	32°25'00"	94°42'35"	3,155	548	6.16	72	387	1.46	5.38	230
08022040	Sabine R nr Beckville, TX	32°19'38"	94°21'12"	3,589	896	8.24	150	840	1.02	5.6	190
08025360	Sabine R at Toledo Bend Reservoir nr Burkeville, TX	31°10'25"	93°33'57"	7,178	3,940	1.68	228	1,360	2.26	5.96	0
08026000	Sabine R nr Burkeville, TX	31°03'50"	93°31'10"	7,482	2,720	17.54	297	1,460	1.84	4.92	60.59
08028500	Sabine R nr Bon Wier, TX	30°44'49"	93°36'30"	8,229	3,590	17.21	220	2,280	1.56	10.36	33.42
08029500	Big Cow Cr nr Newton, TX	30°49'08"	93°47'07"	128	64	6.7	43	78.3	.81	1.82	134.69
08030500	Sabine R nr Ruliff, TX	30°18'13"	93°44'37"	9,329	4,710	20.44	365	5,430	.86	14.88	-5.92
08032000	Neches R nr Neches, TX	31°53'32"	95°25'50"	1,145	263	6.19	740	364	.74	.49	264.06
08033000	Neches R nr Diboll, TX	31°07'58"	94°48'35"	2,724	625	5.33	104	1,020	.62	9.81	136.46
08033500	Neches R nr Rockland, TX	31°01'29"	94°23'55"	3,636	935	5.3	147	686	1.38	4.67	88.41
08036500	Angelina R nr Alto, TX	31°40'10"	94°57'24"	1,726	345	4.43	93.5	318	1.09	3.4	204.3
08038000	Attoyac Bayou nr Chireno, TX	31°30'15"	94°18'15"	503	151	5.33	61	311	.48	5.1	169.58
08039100	Ayish Bayou nr San Augustine, TX	31°23'46"	94°09'03"	89	18	2.34	21.5	24.4	.76	1.13	190.22
08040600	Neches R nr Town Bluff, TX	30°47'27"	94°09'03"	7,574	2,980	51.05	177	2,415	1.24	13.61	0
08041500	Village Cr nr Kountze, TX	30°23'52"	94°15'48"	860	336	4.58	85	288	1.17	3.39	25.12
08041700	Pine Island Bayou nr Sour Lake, TX	30°06'21"	94°20'04"	336	84	14.36	61	132	.64	2.16	0
08042800	West Fk Trinity R nr Jacksboro, TX	33°17'30"	98°04'49"	683	.99	4.7	14.5	4.68	.21	.32	869.28
08043950	Big Sandy Cr nr Chico, TX	33°16'27"	97°40'42"	312	6.6	2.6	13	5.8	1.09	.45	754

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08044500	West Fk Trinity R nr Boyd, TX	33°05'07"	97°33'30"	1,725	68	6.24	52	119	0.54	2.29	660.57
08044800	Walnut Cr at Reno, TX	32°56'44"	97°34'58"	75.6	3.7	3.45	14	6.49	.51	.46	681.11
08045850	Clear Fk Trinity R nr Weatherford, TX	32°44'25"	97°39'06"	121	3.2	8.33	12	11.2	.29	.93	810
08047000	Clear Fk Trinity R nr Benbrook, TX	32°39'54"	97°26'30"	431	6.7	2.9	22	12.4	.50	.56	604.22
08047050	Marys Cr at Benbrook, TX	32°41'42"	97°26'49"	54	2.3	1.2	18.3	2.8	.74	.15	635
08047500	Clear Fk Trinity R at FTW, TX	32°43'56"	97°21'31"	518	16	8.41	20	6.93	2.26	.35	532.91
08048000	West Fk Trinity R at FTW, TX	32°45'39"	97°19'56"	2,615	40	.79	29	15.7	2.54	.54	519.24
08048543	West Fk Trinity R at Beach St, FTW, TX	32°45'06"	97°17'21"	2,685	52	3.45	38	38.3	1.36	1.01	478.7
08048970	Village Cr at Everman, TX	32°36'12"	97°15'53"	84.5	3.7	3.11	17	3.51	1.15	.21	589.93
08049500	West Fk Trinity R at Grand Prairie, TX	32°45'46"	96°59'42"	3,065	178	3.05	89	171	1.04	1.92	405.42
08049580	Mountain Cr nr Venus, TX	32°29'27"	97°07'22"	25.5	.01	4.26	1.0	.12	.08	.12	445
08049700	Walnut Cr nr Mansfield, TX	32°34'51"	97°06'06"	62.8	.26	5.07	4.2	.39	.69	.09	531.08
08050100	Mountain Cr at Grand Prairie, TX	32°44'51"	96°55'32"	298	1.3	3.24	7.8	2.44	.49	.31	404.31
08050400	Elm Fk Trinity R at Gainesville, TX	33°37'27"	97°09'22"	174	12	1.64	30.8	23.6	.52	.77	700
08050800	Timber Cr nr Collinsville, TX	33°33'16"	96°56'49"	38.8	1.6	6.54	4.4	1.8	.90	.41	640
08050840	Range Cr nr Collinsville, TX	33°31'34"	96°48'25"	29.2	.04	3.4	2.1	.36	.13	.17	621.08
08051500	Clear Cr nr Sanger, TX	33°20'10"	97°10'45"	295	25	6.02	36.3	61.4	.42	1.69	582.23
08052700	Little Elm Cr nr Aubrey, TX	33°17'00"	96°53'33"	75.5	.95	4.8	5.8	5.83	.15	1.01	534.76
08053000	Elm Fk nr Trinity R nr Lewisville, TX	33°02'44"	96°57'39"	1,673	220	4.68	48	218	.99	4.54	432.39
08053500	Denton Cr nr Justin, TX	33°07'08"	97°17'25"	400	19	3.36	46.5	106	.18	2.28	606.66
08055500	Elm Fk Trinity R nr Carrollton, TX	32°57'57"	96°56'39"	2,459	148	3.41	62.7	72.2	1.99	1.15	431.4
08057000	Trinity R at Dallas, TX	32°46'29"	96°49'18"	6,106	418	13.2	84	351	1.19	4.18	368.02
08057200	White Rock Cr at Greenville Ave, Dallas, TX	32°53'21"	96°45'23"	66.4	13	71.27	27	13.6	.95	.50	0
08057445	Prairie Cr at US 175, Dallas, TX	32°42'17"	96°40'11"	9.03	.94	10.55	13	6.21	.16	.48	390
08058900	East Fk Trinity R at McKinney, TX	33°14'38"	96°36'31"	164	14	3.78	17	18.1	.72	1.06	528.74
08059400	Sister Grove Cr nr Blue Ridge, TX	33°17'40"	96°28'58"	83.1	14	11.62	24	38.7	.36	1.61	526.29
08061540	Rowlett Cr nr Sachse, TX	32°57'35"	96°36'51"	120	46	6.31	44	34.4	1.3	.78	450
08061750	East Fk Trinity R nr Forney, TX	32°46'27"	96°30'12"	1,118	60	3.66	64	144	.41	2.25	374.86
08062000	East Fk Trinity R nr Crandall, TX	32°38'19"	96°29'06"	1,256	94	2.69	46	170	.55	3.7	338.69
08062500	Trinity R nr Rosser, TX	32°25'35"	96°27'46"	8,147	915	2.89	94	518	1.79	5.51	297.65
08062700	Trinity R at Trinidad, TX	32°08'05"	96°06'20"	8,538	1,290	4.63	81	476	2.5	5.88	239.21
08063100	Richland Cr nr Dawson, TX	31°56'18"	96°40'52"	333	2.0	2.52	13.5	10.6	.17	.79	367.52
08063800	Waxahachie Cr nr Bardwell, TX	32°14'36"	96°38'24"	178	1.2	.56	1.5	.44	2.77	.29	370.18
08064100	Chambers Cr nr Rice, TX	32°11'54"	96°31'12"	807	50	6.38	40	88	.52	2.2	340
08064700	Tehuacana Cr nr Streetman, TX	31°50'46"	96°17'37"	142	1.8	3.29	8.4	3.06	.64	.36	280.13

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08065000	Trinity R nr Oakwood, TX	31°38'54"	95°47'21"	12,833	1,490	8.36	100	958	1.45	9.58	175.06
08065200	Upper Keechi Cr nr Oakwood, TX	31°34'11"	95°53'17"	150	11	6.36	19.5	14.8	.79	.76	240.11
08065350	Trinity R nr Crockett, TX	31°20'18"	95°39'22"	13,911	2,400	11	182	1,270	1.86	6.98	141.15
08065800	Bedias Cr nr Madisonville, TX	30°53'03"	95°46'39"	321	9.0	4.66	12	5.65	1.6	.47	150
08066170	Kickapoo Cr nr Onalaska, TX	30°54'25"	95°05'18"	57	3.6	3.61	22	11.3	.32	.51	139.85
08066200	Long King Cr at Livingston, TX	30°42'58"	94°57'31"	141	13	3.75	21	9.97	1.33	.47	100.12
08066250	Trinity R nr Goodrich, TX	30°34'19"	94°56'55"	16,844	2,770	8.6	265	2,380	1.16	8.98	40
08066300	Menard Cr nr Rye, TX	30°28'52"	94°46'46"	152	50	9.26	34	63.4	.79	1.86	62.32
08066500	Trinity R at Romayor, TX	30°25'30"	94°51'02"	17,186	2,710	13.38	260	6,170	.45	23.73	25.92
08067000	Trinity R at Liberty, TX	30°03'27"	94°49'05"	17,468	20,400	25.51	455	10,200	1.98	22.42	-2.22
08067500	Cedar Bayou nr Crosby, TX	29°58'20"	94°59'10"	64.9	14	7.88	25.2	14	.99	.56	31.31
08067650	West Fk San Jacinto R below Lake Conroe nr Conroe, TX	30°20'31"	95°23'34"	451	8.8	14.34	24.2	13.8	.64	.57	116.06
08068000	West Fk San Jacinto R nr Conroe, TX	30°14'40"	95°27'25"	828	95	3.66	62	71.05	1.35	1.15	95.03
08068090	West Fk San Jacinto R above Lake Houston nr Porter, TX	30°05'09"	95°17'59"	962	115	11.03	88	111	1.04	1.26	33
08068450	Panther Branch nr Spring, TX	30°07'51"	95°28'52"	34.5	1.4	4.68	7.1	1.64	.83	.23	0
08068500	Spring Cr nr Spring, TX	30°06'37"	95°26'10"	409	43	3.11	36	31.8	1.31	.88	73.1
08068720	Cypress Cr at Katy-Hockley Rd nr Hockley, TX	29°57'00"	95°48'29"	110	3.0	47.36	9.4	5.33	.60	.57	100
08068740	Cypress Cr at House-Hahl Rd nr Cypress, TX	29°57'32"	95°43'03"	131	5.9	29.88	11	4.62	1.28	.42	100
08068780	Little Cypress Cr nr Cypress, TX	30°00'57"	95°41'50"	41	.73	64.87	3.0	.87	.92	.29	80
08068800	Cypress Cr at Grant Rd nr Cypress, TX	29°58'24"	95°35'54"	214	9.9	25.02	24.7	13.9	.69	.56	80
08068900	Cypress Cr at Stuebner-Airline Rd nr Westfield, TX	30°00'23"	95°30'42"	248	43	14.78	29.5	28.9	1.47	.98	70
08069000	Cypress Cr nr Westfield, TX	30°02'08"	95°25'43"	285	27	3.21	26.5	27.6	1.0	1.04	63.89
08070000	East Fk San Jacinto R nr Cleveland, TX	30°20'11"	95°06'14"	325	50	4.92	50	54.4	.88	1.09	107.98
08070200	East Fk San Jacinto R nr New Caney, TX	30°08'43"	95°07'27"	388	87	4.96	40.5	75.6	1.18	1.87	43.98
08070500	Caney Cr nr Splendora, TX	30°15'34"	95°18'08"	105	28	3.22	33	28.7	1.01	.87	118.44
08071000	Peach Cr at Splendora, TX	30°13'57"	95°10'05"	117	25	6.86	32	34.9	.72	1.09	81.61
08071280	Luce Bayou above Lake Houston nr Huffman, TX	30°06'34"	95°03'35"	218	9.6	8.96	17	13.5	.72	.79	39.91
08072300	Buffalo Bayou nr Katy, TX	29°44'35"	95°48'24"	63.3	8.0	22.72	19.8	23.3	.35	1.18	75.02
08072730	Bear Cr nr Barker, TX	29°49'50"	95°41'12"	21.5	1.9	2.75	7.7	2.14	.91	.28	100
08072760	Langham Cr at West Little York Rd nr Addicks, TX ( 2 yrs. data)	29°52'01"	95°38'47"	24.6	10	14.96	16.4	11.7	.81	.71	90
08073500	Buffalo Bayou nr Addicks, TX	29°45'42"	95°36'20"	293	49	50.19	40	43	1.15	1.08	-1.4
08073600	Buffalo Bayou at West Belt Dr at Houston, TX	29°45'43"	95°33'27"	307	110	39.98	36.6	56.5	1.96	1.54	-67
08073700	Buffalo Bayou at Piney Point, TX	29°44'48"	95°31'24"	317	108	33.24	39	91.8	1.15	2.35	-1.35
08074150	Cole Cr at Deihl Rd, Houston, TX	29°51'04"	95°29'16"	7.5	1.6	67.6	14	4.4	.36	.31	0
08074250	Brickhouse Gully at Costa Rica St, Houston, TX	29°49'40"	95°28'09"	11.4	3.5	53.38	19.1	8.2	.42	.43	0

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08074500	Whiteoak Bayou at Houston, TX	29°46'30"	95°23'49"	86.3	29	16.7	12.4	14.8	2.03	1.19	-7.35
08074800	Keegans Bayou at Roark Rd nr Houston, TX	29°39'23"	95°33'43"	12.7	4.1	61.88	9.5	3.55	1.18	.37	0
08074810	Brays Bayou at Gessner Dr, Houston, TX	29°40'21"	95°31'41"	52.5	72	43.17	51.4	44.3	1.63	.86	0
08075000	Brays Bayou at Houston, TX	29°41'49"	95°24'43"	94.9	67	25.4	63	73.4	.98	1.17	-7.16
08075400	Sims Bayou at Hiram Clarke St, Houston, TX	29°37'07"	95°26'45"	20.16	12	35.41	19.6	15	.84	.77	0
08075500	Sims Bayou at Houston, TX	29°40'27"	95°17'21"	63	40	2.9	51	33.6	1.17	.66	-3.09
08075730	Vince Bayou at Pasadena, TX	29°41'40"	95°12'58"	8.26	2.2	8.27	26.4	2.98	.72	.11	-2.54
08075770	Hunting Bayou at IH-610, Houston, TX	29°47'35"	95°16'04"	16.1	7.0	21.16	16.5	6.84	1.0	.41	0
08075900	Greens Bayou nr US 75 nr Houston, TX	29°57'24"	95°25'04"	36.6	15	70.66	25	11.8	1.25	.47	0
08076000	Greens Bayou nr Houston, TX	29°55'05"	95°18'24"	68.7	24	44.6	29.5	23.2	1.03	.79	-6.66
08076180	Garners Bayou nr Humble, TX	29°56'03"	95°14'02"	31	12	36.38	15	13	.95	.87	0
08076500	Halls Bayou at Houston, TX	29°51'42"	95°20'05"	28.7	9.0	45.9	31	22.8	.39	.74	-6.66
08076700	Greens Bayou at Ley Rd, Houston, TX	29°50'13"	95°13'59"	182	322	4.96	57	237	1.31	4.16	-2.13
08078000	Chocolate Bayou nr Alvin, TX	29°22'09"	95°19'14"	87.7	32	11.2	21.6	25.2	1.3	1.17	.31
08079600	Double Mountain Fk Brazos R at Justiceburg, TX	33°02'18"	101°11'50"	244	.02	5.5	.89	.03	.70	.03	2,222.47
08080500	Double Mountain Fk Brazos R nr Aspermont, TX	33°00'29"	100°10'49"	1,864	1.5	1.36	8.5	2.54	.55	.3	1,624.79
08082000	Salt Fk Brazos R nr Aspermont, TX	33°20'02"	100°14'16"	2,496	7.1	2.65	27.5	9.32	.77	.34	1,588.7
08082500	Brazos R at Seymour, TX	33°34'51"	99°16'02"	5,972	50	1.97	101	46	1.12	.46	1,238.97
08082700	Millers Cr nr Munday, TX	33°19'45"	99°27'53"	104	0	--	--	--	--	--	1,350
08083100	Clear Fk Brazos R nr Roby, TX	32°47'15"	100°23'18"	228	1.6	2.45	3.0	1.42	1.1	.47	1,885.09
08083420	Cat Claw Cr at Abilene, TX	32°28'31"	99°44'56"	13	0	--	--	--	--	--	1,682.32
08084000	Clear Fk Brazos R at Nugent, TX	32°41'24"	99°40'09"	2,199	12	1.95	48.5	18.8	.65	.39	1,531.91
08084800	California Cr nr Stamford, TX	32°55'51"	99°38'32"	478	2.6	6.49	8.2	2.12	1.18	.26	1,470
08085500	Clear Fk Brazos R at Fort Griffin, TX	32°56'04"	99°13'27"	3,988	25	2.45	28	13	2.0	.46	1,174.09
08086212	Hubbard Cr below Albany, TX	32°43'58"	99°08'15"	613	1.3	3.37	12	2.67	.49	.22	1,184.99
08086290	Big Sandy Cr above Breckenridge, TX	32°38'54"	99°00'15"	280	.08	.82	1.2	.07	1.25	.06	1,185.83
08088000	Brazos R nr South Bend, TX	33°01'27"	98°38'37"	22,673	131	4.06	112	106	1.16	.94	1,002.98
08088610	Brazos R nr Graford, TX	32°51'29"	98°14'41"	14,030	264	66.92	100	243	1.19	2.43	800
08089000	Brazos R nr Palo Pinto, TX	32°51'45"	98°18'08"	14,245	216	2.68	108	110	2.03	1.02	834.23
08090800	Brazos R nr Dennis, TX	32°36'56"	97°55'32"	15,671	281	3.08	240	982	.28	4.09	697.67
08091000	Brazos R nr Glen Rose, TX	32°16'18"	97°39'48"	16,252	353	5.71	218	281	1.17	1.29	567.82
08091500	Paluxy R at Glen Rose, TX	32°13'53"	97°46'37"	410	21	2.13	77	37.7	.60	.49	609.66
08091750	Squaw Cr nr Glen Rose, TX	32°16'12"	97°43'56"	70.3	4.0	2.2	20	6.2	.63	.31	599
08092000	Nolan R at Blum, TX	32°09'02"	97°24'09"	282	12	1.91	67	24.7	.43	.37	551.48
08093100	Brazos R nr Aquilla, TX	31°48'44"	97°17'51"	17,678	633	7.69	241	634	1.05	2.63	404.29

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

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					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08093500	Aquilla Cr nr Aquilla, TX	31°50'40"	97°12'04"	308	6.0	4.38	7.8	3.7	1.66	0.47	451.48
08094800	North Bosque R at Hico, TX	31°58'41"	98°02'04"	359	5.5	.64	32.5	13.6	.39	.42	982.46
08095000	North Bosque R nr Clifton, TX	31°47'09"	97°34'04"	968	29	1.93	53	32.8	.86	.62	605.43
08095200	North Bosque R at Valley Mills, TX	31°40'10"	97°28'09"	1,146	43	3.66	57.5	40.1	1.07	.70	524.55
08095300	Middle Bosque R nr McGregor, TX	31°30'33"	97°21'56"	182	20	2.8	31.8	15.8	1.27	.50	530.51
08095400	Hog Cr nr Crawford, TX	31°33'20"	97°21'22"	78.2	4.3	2.14	30	15	.30	.50	560.54
08096500	Brazos R at Waco, TX	31°32'09"	97°04'23"	20,007	844	4.99	308	670	1.25	2.18	349.34
08098290	Brazos R nr Highbank, TX	31°08'02"	96°49'29"	20,870	1,040	3.84	345	564	1.88	1.63	249.29
08099100	Leon R nr De Leon, TX	32°10'25"	98°31'58"	479	1.0	1.5	12	2.81	.32	.23	1,209.93
08099300	Sabana R nr De Leon, TX	32°06'50"	98°36'19"	264	1.3	2.82	17.5	4.4	.29	.25	1,209.59
08100000	Leon R nr Hamilton, TX	31°47'19"	98°07'16"	1,891	18	5.83	24	18.3	1.03	.76	955.38
08100500	Leon R at Gatesville, TX	31°25'58"	97°45'42"	2,342	48	2.64	38	40	1.24	1.05	723.85
08101000	Cowhouse Cr at Pidcoke, TX	31°17'05"	97°53'05"	455	6.5	3.48	18.9	8.74	.70	.46	736.71
08102500	Leon R nr Belton, TX	31°04'12"	97°26'28"	3,542	44	3.82	60	35.8	1.14	.60	476.68
08103800	Lampasas R nr Kempner, TX	31°04'54"	98°00'59"	818	32	3.53	59	25.8	1.25	.44	828.38
08103900	South Fk Rocky Cr nr Briggs, TX	30°54'41"	98°02'12"	33.3	.71	1.18	5.0	1.01	.66	.20	955.8
08104100	Lampasas R nr Belton, TX	31°00'06"	97°29'32"	1,321	13	5.17	28	11.3	1.18	.40	476.58
08104500	Little R nr Little River, TX	30°57'59"	97°20'45"	5,228	272	3.31	85	167	1.61	1.96	400.11
08104700	North Fk San Gabriel R nr Georgetown, TX	30°39'42"	97°42'40"	248	6.8	4.2	11.2	4.6	1.46	.41	689.06
08104900	South Fk San Gabriel R at Georgetown, TX	30°37'32"	97°41'27"	133	13	2.12	21	11.6	1.06	.55	687.72
08105100	Berry Cr nr Georgetown, TX	30°41'28"	97°39'21"	83.1	4.8	2.95	20	3.89	1.21	.19	659.97
08105700	San Gabriel R at Laneport, TX	30°41'39"	97°16'43"	738	36	5.34	40	25.8	1.48	.65	412.6
08106350	Little R nr Rockdale, TX	30°45'38"	97°00'49"	6,959	185	4.86	60.5	87.1	2.05	1.44	299.12
08106500	Little R at Cameron, TX	30°50'06"	96°56'47"	7,065	498	3.84	99	505	.97	5.1	281.89
08108700	Brazos R at SH 21 nr Bryan, TX	30°37'36"	96°32'38"	29,483	1,540	10.33	215	1,400	1.04	6.51	188.65
08109700	Middle Yegua Cr nr Dime Box, TX	30°20'21"	96°54'16"	236	6.1	2.69	8.7	7.27	.87	.84	295.4
08109800	East Yegua Cr nr Dime Box, TX	30°24'26"	96°49'02"	244	11	1.91	18.3	23.5	.51	1.28	284
08110100	Davidson Cr nr Lyons, TX	30°25'10"	96°32'24"	195	2.6	2.97	11.6	4.1	.60	.35	220.26
08110325	Navasota R above Groesbeck, TX	31°34'27"	96°31'14"	239	1.1	1.63	8.0	1.7	.61	.21	396.65
08110430	Big Cr nr Freestone, TX	31°30'24"	96°19'28"	97.2	3.3	3.65	10.8	5.4	.62	.50	362.94
08110500	Navasota R nr Easterly, TX	31°10'12"	96°17'51"	968	29	3.97	27	25.2	1.1	.93	271.46
08110800	Navasota R at Old Spanish Rd nr Bryan, TX	30°58'25"	96°14'29"	1,287	84	3.41	44.5	91.7	.93	2.06	245
08111500	Brazos R nr Hempstead, TX	30°07'44"	96°11'15"	34,314	2,530	14.74	280	2,940	.87	10.5	107.9
08111700	Mill Cr nr Bellville, TX	29°52'51"	96°12'18"	376	36	4.83	25.5	24.8	1.42	.97	122.82
08114000	Brazos R at Richmond, TX	29°34'56"	95°45'27"	35,441	2,950	12.96	242	2,580	1.15	10.66	27.94

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08115000	Big Cr nr Needville, TX	29°28'35"	95°48'45"	42.8	1.7	6.44	9.43	3.53	0.48	0.37	59.39
08116650	Brazos R nr Rosharon, TX	29°20'58"	95°34'56"	35,773	3,430	11.78	170	1,580	2.18	9.29	0
08117500	San Bernard R nr Boling, TX	29°18'48"	95°53'37"	727	126	4.4	57.5	117	1.04	2.03	30.81
08117995	Colorado R nr Gail, TX	32°37'43"	101°17'06"	498	0	--	--	--	--	--	2,240
08120700	Colorado R nr Cuthbert, TX	32°28'38"	100°56'58"	1,531	4.0	2.13	11	4.58	.82	.42	2,073.49
08121000	Colorado R at Colorado City, TX	32°23'33"	100°52'42"	1,585	.52	2.56	3.0	.60	.82	.20	2,030.16
08123800	Beals Cr nr Westbrook, TX	32°11'57"	101°00'49"	1,988	2.1	1.94	10.4	3.82	.58	.37	2,048.74
08123850	Colorado R above Silver, TX	32°03'13"	100°45'42"	4,650	8.7	1.92	33	20.4	.42	.62	1,907.66
08124000	Colorado R at Robert Lee, TX	31°53'07"	100°28'49"	5,047	.69	1.14	5.3	1.26	.58	.24	1,771.7
08126380	Colorado R nr Ballinger, TX	31°42'55"	100°01'34"	6,098	14	4.29	34	14.1	1.0	.41	1,606.51
08127000	Elm Cr at Ballinger, TX	31°44'57"	99°56'51"	450	2.7	3.84	21	3.73	.66	.18	1,617.72
08128000	South Concho R at Christoval, TX	31°11'13"	100°30'06"	354	14	1.97	16.5	14.2	.98	.86	2,010.22
08128400	Middle Concho R above Tankersley, TX	31°25'38"	100°42'39"	1,116	1.5	6.44	5.7	1.5	.99	.26	1,986.47
08129300	Spring Cr above Tankersley, TX	31°19'48"	100°38'14"	405	5.8	4.04	15.5	6.14	.94	.40	1,964.72
08130500	Dove Cr at Knickerbocker, TX	31°16'26"	100°37'50"	218	10	3.13	17	14.4	.69	.85	2,001.45
08133500	North Concho R at Sterling City, TX	31°49'48"	100°59'36"	568	0	--	--	--	--	--	2,242.36
08134000	North Concho R nr Carlsbad, TX	31°35'33"	100°38'12"	1,191	1.5	4.88	12	2.36	.69	.20	1,968.02
08136000	Concho R at San Angelo, TX	31°27' 16"	100°24'37"	4,411	7.3	1.6	7.0	3.9	1.91	.56	1,776.79
08136500	Concho R at Paint Rock, TX	31°30'57"	99°55'09"	6,574	26	12.84	32	23.6	1.15	.74	1,574.36
08136700	Colorado R nr Stacy, TX	31°29'37"	99°34'25"	12,802	46	4.47	51	28.2	1.73	.55	1,394.66
08138000	Colorado R at Winchell, TX	31°28'04"	99°09'43"	25,179	60	2.91	131	81.3	.74	.62	1,264.86
08143600	Pecan Bayou nr Mullin, TX	31°31'02"	98°44'25"	2,073	15	.92	29.2	20.7	.73	.71	1,202.93
08144500	San Saba R at Menard, TX	30°55'08"	99°47'07"	1,128	23	3.45	56	33.4	.72	.60	1,863.05
08144600	San Saba R nr Brady, TX	31°00'14"	99°16'07"	1,626	40	2.32	71	38.8	1.02	.55	1,530.98
08146000	San Saba R at San Saba, TX	31°12'47"	98°43'09"	3,039	88	3.27	58	91.6	.97	1.58	1,162.16
08147000	Colorado R nr San Saba, TX	31°13'04"	98°33'51"	19,819	225	2.65	136	88.1	2.46	.65	1,096.22
08150000	Llano R nr Junction, TX	30°30'15"	99°44'03"	1,849	99	.48	73	54.2	1.82	.74	1,636.32
08150700	Llano R nr Mason, TX	30°39'38"	99°06'32"	3,242	179	.82	65	158	1.13	2.43	1,230.36
08150800	Beaver Cr nr Mason, TX	30°38'36"	99°05'44"	215	3.2	1.24	19	7.35	.45	.39	1,253.24
08151500	Llano R at Llano, TX	30°45'04"	98°40'10"	4,192	157	1.42	174	195	.81	1.12	970.01
08152000	Sandy Cr nr Kingsland, TX	30°33'27"	98°18'19"	346	12	5.16	32.8	8.74	1.4	.27	862.31
08152900	Pedernales R nr Fredericksburg, TX	30°13'13"	98°52'10"	369	22	3.34	43	13	1.6	.30	1,564.96
08153500	Pedernales R nr Johnson City, TX	30°17'30"	98°13'57"	901	51	10.47	34	38.3	1.28	1.13	1,096.7
08154700	Bull Cr at Loop 360 nr Austin, TX	30°22'19"	97°47'04"	22.3	4.2	2.69	8.5	4.16	1.08	.49	534.08
08155200	Barton Cr at SH 71 nr Oak Hill, TX	30°17'46"	97°55'31"	89.7	4.6	2.6	20.8	7.47	.65	.36	737.04

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08155240	Barton Cr at Lost Cr Blvd nr Austin, TX	30°16'26"	97°50'40"	107	6.5	2.14	25	12.1	0.55	0.48	600
08155300	Barton Cr at Loop 360, Austin, TX	30°14'40"	97°48'07"	116	0	--	--	--	--	--	510.32
08156800	Shoal Cr at West 12th St, Austin, TX	30°16'35"	97°45'00"	12.3	.02	1.99	2.0	.08	.24	.04	455.33
08157600	East Bouldin Cr at South 1st St, Austin, TX	30°15'07"	97°45'14"	2.4	.3	1.14	3.4	.29	1.0	.09	--
08157700	Blunn Cr nr Little Stacy Park, Austin, TX	30°14'50"	97°44'37"	1.2	.21	.81	2.08	.29	.73	.14	--
08158000	Colorado R at Austin, TX	30°14'40"	97°41'39"	27,606	1,140	3.74	305	1,150	.97	3.77	402.27
08158050	Boggy Cr at US 183, Austin, TX	30°15'47"	97°40'20"	13.1	.29	5.18	2.7	.45	.64	.17	411.29
08158600	Walnut Cr at Webberville Rd, Austin, TX	30°16'59"	97°39'17"	51.3	7.5	4.39	10.5	5.1	1.57	.49	425.96
08158700	Onion Cr nr Driftwood, TX	30°04'58"	98°00'27"	124	9.6	.92	31.5	8.08	1.14	.26	878.13
08158810	Bear Cr below FM 1826 nr Driftwood, TX	30°09'19"	97°56'23"	12.2	1.2	0	5.4	1.93	.64	.36	860
08158840	Slaughter Cr at FM 1826 nr Austin, TX	30°12'32"	97°54'11"	8.24	.39	3.9	7.8	1.1	.32	.14	876.14
08158922	Williamson Cr at Brush Country Blvd, Oak Hill, TX	30°13'34"	97°50'28"	6.79	0	--	--	--	--	--	740.25
08158930	Williamson Cr at Manchaca Rd, Austin, TX	30°13'16"	97°47'36"	19	0	--	--	--	--	--	618.39
08159000	Onion Cr at US 183, Austin, TX	30°10'40"	97°41'18"	321	6.3	5.26	9.8	6.7	.92	.68	442.85
08159200	Colorado R at Bastrop, TX	30°06'16"	97°19'09"	28,576	1,570	4.31	270	1,340	1.17	4.96	307.38
08159500	Colorado R at Smithville, TX	30°00'45"	97°09'42"	27,000	1,640	3.9	240	1,186	1.44	4.94	270.14
08160400	Colorado R above La Grange, TX	29°54'44"	96°54'13"	29,471	1,520	5.78	229	815	1.84	3.57	210.04
08160800	Redgate Cr nr Columbus, TX	29°47'56"	96°31'55"	17.3	.88	9.84	4.5	1.04	.81	.23	210.82
08161000	Colorado R at Columbus, TX	29°42'22"	96°32'12"	30,327	1,630	12.15	230	1,393	1.1	6.06	155.52
08162000	Colorado R at Wharton, TX	29°18'32"	96°06'13"	30,600	1,330	11.16	209	644	2.03	3.08	52.42
08162500	Colorado R nr Bay City, TX	28°58'26"	96°00'44"	30,837	909	5.52	150	747	1.24	4.98	0
08162600	Tres Palacios R nr Midfield, TX	28°55'40"	96°10'15"	145	23	3.67	19	13.8	1.7	.73	5.38
08164000	Lavaca R nr Edna, TX	28°57'35"	96°41'10"	817	54	4.51	48	58.1	.92	1.21	14.1
08164300	Navidad R nr Hallettsville, TX	29°28'00"	96°48'45"	332	22	5.15	39	22.2	.98	.57	159.28
08164350	Navidad R nr Speaks, TX	29°19'18"	96°42'32"	437	30	3.71	29	22.6	1.35	.78	120
08164370	Navidad R at Morales, TX	29°08'07"	96°44'39"	549	58	7.69	40	94.5	.61	2.36	65.44
08164390	Navidad R at Strane Park nr Edna, TX	29°03'55"	96°40'26"	579	66	5.49	42.5	52.6	1.24	1.24	42.53
08164450	Sandy Cr nr Ganado, TX	29°09'36"	96°32'46"	289	21	5.89	29	19	1.19	.66	59.72
08164503	West Mustang Cr nr Ganado, TX	29°04'17"	96°28'01"	178	23	5.53	40	48.5	.44	1.21	40.12
08164504	East Mustang Cr nr Louise, TX	29°04'14"	96°25'01"	90.8	3.6	4.46	7.0	2.15	1.64	.31	43.02
08164600	Garcitas Cr nr Inez, TX	28°53'28"	96°49'08"	91.7	3.2	4.94	8.4	3.43	.93	.41	29.16
08164800	Placedo Cr nr Placedo, TX	28°43'30"	96°46'07"	68.3	1.6	5.18	9.4	3.0	.51	.32	5.58
08165300	North Fk Guadalupe R nr Hunt, TX	30°03'50"	99°23'12"	169	24	1.75	35	36.1	.65	1.03	1,800.1
08165500	Guadalupe R at Hunt, TX	30°04'11"	99°19'17"	288	49	7.88	42	29.7	1.67	.71	1,722.7
08166000	Johnson Cr nr Ingram, TX	30°06'00"	99°16'58"	114	14	.53	38	32.1	.45	.84	1,721.3



**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08166140	Guadalupe R above Bear Cr at Kerrville, TX	30°04'10"	99°11'42"	494	81	2.99	133	68.3	1.16	0.51	1,630
08166200	Guadalupe R at Kerrville, TX	30°03'11"	99°09'47"	510	96	1.8	143	63.6	1.44	.44	1,601
08167000	Guadalupe R at Comfort, TX	29°58'10"	98°53'33"	839	131	2.47	35	43	3.16	1.23	1,369.83
08167500	Guadalupe R nr Spring Branch, TX	29°51'37"	98°13'00"	1,315	199	2.92	73	134	1.5	1.84	948.1
08167800	Guadalupe R at Sattler, TX	29°51'32"	98°10'47"	1,436	215	4.86	83	165	1.28	1.99	742.24
08168500	Guadalupe R above Comal R at New Braunfels, TX	29°42'53"	98°06'35"	1,518	287	2.34	104	253	1.13	2.43	586.65
08169000	Comal R at New Braunfels, TX	29°42'21"	98°07'20"	130	308	4.2	93	161	1.86	1.73	582.8
08170500	San Marcos R at San Marcos, Tx	29°53'20"	97°56'02"	93	162	5.21	79	73.4	2.22	.93	557.67
08171000	Blanco R at Wimberley, TX	29°59'39"	98°05'19"	355	53	3.84	112	89.1	.59	.80	797.23
08171300	Blanco R nr Kyle, TX	29°58'45"	97°54'35"	412	52	4.88	40.2	22.3	2.39	.55	620.12
08172000	San Marcos R at Luling, TX	29°39'58"	97°39'02"	838	234	6.88	66	103	2.23	1.56	322.05
08172400	Plum Cr at Lockhart, TX	29°55'22"	97°40'44"	112	.35	1.31	3.0	.42	.81	.14	431.19
08173900	Guadalupe R at Gonzales, TX	29°29'03"	97°27'00"	3,490	1,070	13.45	79	370	2.6	4.68	250
08175000	Sandies Cr nr Westhoff, TX	29°12'54"	97°26'57"	549	9.1	2.58	48.5	10.4	.90	.21	178.27
08175800	Guadalupe R at Cuero, TX	29°03'57"	97°19'16"	4,934	1,060	5.18	125	702	1.51	5.62	128.64
08176500	Guadalupe R at Victoria, TX	28°47'34"	97°00'46"	5,198	990	6.77	136	700	1.41	5.15	29.15
08176900	Coleto Cr at Arnold Rd nr Schroeder, TX	28°51'41"	97°13'34"	357	12	4.54	16.2	8.88	1.32	.55	100.43
08177500	Coleto Cr nr Victoria, TX	28°43'51"	97°08'18"	514	5.0	2.79	17.7	5.92	.90	.33	44.18
08178050	San Antonio R at Mitchell St, San Antonio, TX	29°23'34"	98°19'40"	42.4	26	.78	39	13.5	1.97	.35	585.07
08178565	San Antonio R at Loop 410 at San Antonio, TX	29°19'19"	98°17'00"	125	43	6.14	33	21.4	2.08	.65	488.11
08178700	Salado Cr (Upper Station) at San Antonio, TX	29°30'57"	98°15'51"	137	.75	2.65	13	4.6	.15	.35	684.6
08178800	Salado Cr (Lower Station) at San Antonio, TX	29°21'25"	98°14'45"	189	22	6.89	18.5	17.9	1.28	.97	526.95
08178880	Medina R at Bandera, TX	29°43'25"	99°04'11"	427	63	4.44	32	35.6	1.78	1.11	1,189.46
08180640	Medina R at La Coste, TX	29°19'26"	98°48'46"	805	43	5.81	36	70.1	.65	1.95	667.15
08180700	Medina R nr MacDona, TX	29°20'05"	98°41'22"	885	54	2.89	47	23.4	2.38	.50	589.86
08180800	Medina R nr Somerset, TX	29°15'43"	98°34'52"	967	77	5.08	34	71.1	1.09	2.09	493.56
08181400	Helotes Cr at Helotes, TX	29°34'42"	98°41'29"	15	0	--	--	--	--	--	1,014.82
08181480	Leon Cr at IH-35 at San Antonio, TX	29°19'47"	98°35'02"	219	7.9	3.1	27	11.5	.71	.43	573.49
08181500	Medina R at San Antonio, TX	29°15'14"	98°18'10"	1,317	96	5.25	38	67.6	1.4	1.78	439
08181800	San Antonio R nr Elmendorf, TX	29°13'19"	98°11'20"	1,743	316	12.23	53	305	1.04	5.75	380
08183500	San Antonio R nr Falls City, TX	28°57'05"	98°03'50"	2,113	249	1.26	102	121	2.07	1.19	285.49
08183850	Cibolo Cr at IH-10 above Boerne, TX	29°48'52"	98°45'12"	29	3.5	1.28	32	9.11	.39	.28	1,428.5
08185000	Cibolo Cr at Selma, TX	29°35'38"	98°18'39"	274	0	--	--	--	--	--	728.34
08186000	Cibolo Cr nr Falls City, TX	29°00'50"	97°55'48"	827	27	1.37	40	34	.78	.85	827
08188500	San Antonio R at Goliad, TX	28°38'58"	97°23'04"	3,921	331	4.56	82	216	1.54	2.63	91.08

**Table 3.** Median streamflow and associated hydraulic characteristics for streamflow-gaging stations in Texas—Continued

Station no.	Station name	Latitude	Longitude	Contributing drainage area (mi <sup>2</sup> )	Characteristics for median streamflow						Elevation of datum of gage
					Streamflow (ft <sup>3</sup> /s)	Gage height (ft)	Stream width (ft)	Cross section area (ft <sup>2</sup> )	Mean velocity	Mean depth	
08189200	Copano Cr nr Refugio, TX	28°18'12"	97°06'44"	87.8	0.07	2.89	1.0	0.18	0.39	0.18	17.25
08189500	Mission R at Refugio, TX	28°17'30"	97°16'44"	690	11	2.38	33.5	19.6	.56	.59	1.0
08189700	Aransas R nr Skidmore, TX	28°16'56"	97°37'14"	247	4.0	.64	7.2	3.74	1.07	.52	72.37
08190000	Nueces R at Laguna, TX	29°25'42"	99°59'49"	737	77	3.72	79.3	84.1	.92	1.06	1,119.72
08190500	West Nueces R nr Bracketville, TX	29°28'21"	100°14'10"	694	.03	1.08	1.0	.08	.45	.08	1,326.79
08192000	Nueces R below Uvalde, TX	29°07'25"	99°53'40"	1,861	27	2.84	56.5	34.2	.78	.61	796.12
08193000	Nueces R nr Asherton, TX	28°30'00"	99°40'54"	4,082	.26	1.52	6.0	1.12	.24	.19	470.92
08194000	Nueces R at Cotulla, TX	28°25'34"	99°14'23"	5,171	.61	7.56	13	1.13	.55	.09	368.08
08194200	San Casimiro Cr nr Freer, TX	27°57'53"	98°58'00"	469	0	--	--	--	--	--	298
08194500	Nueces R nr Tilden, TX	28°18'31"	98°33'25"	8,093	7.3	2.53	21	9.88	.70	.47	183.5
08195000	Frio R at Concan, TX	29°29'18"	99°42'16"	389	69	3.72	78	68.2	1.01	.87	1,203.71
08196000	Dry Frio R nr Reagan Wells, TX	29°30'16"	99°46'52"	126	15	2.1	45	35.5	.42	.79	1,335.2
08197500	Frio R below Dry Frio R nr Uvalde, Tx	29°14'44"	99°40'27"	631	0	--	--	--	--	--	882.47
08198000	Sabinal R nr Sabinal, TX	29°29'27"	99°29'33"	206	26	4.94	37.3	27.9	.90	.75	1,131.2
08198500	Sabinal R at Sabinal, TX	29°18'05"	99°28'46"	241	1.6	3.11	10.3	5.84	.26	.57	882.17
08200000	Hondo Cr nr Tarpley, TX	29°34'10"	99°14'47"	95.6	12	.25	39	22.6	.50	.58	1,169.1
08200700	Hondo Cr at King Waterhole nr Hondo, TX	29°23'26"	99°09'04"	149	0	--	--	--	--	--	897.87
08201500	Seco Cr at Miller Ranch nr Utopia, TX	29°34'23"	99°24'10"	45	5.6	1.58	36.6	12	.46	.33	1,265.8
08202700	Seco Cr at Rowe Ranch nr D'Hanis, TX	29°21'43"	99°17'05"	168	0	--	--	--	--	--	900.88
08205500	Frio R nr Derby, TX	28°44'11"	99°08'40"	9,429	5.4	.74	13.5	10.3	.52	.76	449.11
08206600	Frio R at Tilden, TX	28°28'02"	98°32'50"	4,493	28	2.72	26	20.8	1.34	.80	216.04
08206700	San Miguel Cr nr Tilden, TX	28°35'14"	98°32'44"	783	2.0	2.13	9.5	2.58	.71	.27	242.95
08206910	Choke Canyon Reservoir OWC nr Three Rivers, TX	28°29'09"	98°14'29"	5,490	34	4.47	26	18.1	1.89	.70	124.6
08208000	Atascosa R at Whitsett, TX	28°37'19"	98°16'52"	1,171	11	2.27	21	14.2	.77	.68	159.04
08210000	Nueces R nr Three Rivers, TX	28°25'38"	97°10'40"	15,427	92	2.11	43	55.5	1.66	1.29	99.26
08211000	Nueces R nr Mathis, TX	28°02'17"	97°51'36"	16,660	131	1.53	58	115	1.14	1.98	26.53
08211200	Nueces R at Bluntzer, TX	27°56'15"	97°46'32"	16,772	164	7.75	63	255	.64	4.05	0
08211500	Nueces R at Calallen, TX	27°52'34"	97°37'32"	16,920	13	4.66	148.5	13.13	1.04	.09	.84
08211520	Oso Cr at Corpus Christi, TX	27°42'40"	97°30'06"	90.3	2.3	4.83	12.5	9.49	.24	.76	-1.91
08211900	San Fernando Cr at Alice, TX	27°46'20"	98°02'00"	507	2.0	1.01	10	2.93	.68	.29	161.68
08212400	Los Olmos Cr nr Falfurrias, TX	27°15'51"	98°08'08"	476	0	--	--	--	--	--	116.58
08446500	Pecos R nr Girvin, TX	31°06'47"	102°25'02"	29,560	28	1.51	30	32.5	.85	1.08	2,269.65

**Table 4.** Gains and losses from gain-loss studies in Texas

[ft<sup>3</sup>/s, cubic feet per second; mi, miles; --, not applicable; SCS, Soil Conservation Service; ft, feet; IBWC, International Boundary and Water Commission]

Note: Eight digit streamflow-gaging stations used to identify some subreaches

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
1	30°52'47"	97°55'11"	--	--	0	4.9	30.5	at US 183 bridge
1	30°50'34"	97°51'32"	--	--	0	3.2	25.6	
1	30°48'37"	97°49'32"	--	--	.05	3.0	22.4	
1	30°46'44"	97°47'45"	--	--	-.05	2.5	19.4	
1	30°45'49"	97°45'13"	Edwards	--	-.12	2.5	16.9	
1	30°44'51"	97°43'55"	Edwards	--	-.02	1.6	14.4	
1	30°43'38"	97°44'26"	Edwards	--	0	1.3	12.8	
1	30°43'05"	97°43'43"	Edwards	--	-.83	6.6	11.5	
1	30°42'11"	97°39'58"	Edwards	--	.18	1.3	4.9	
1	30°41'27"	97°39'18"	--	--	3.04	3.2	3.6	
2	30°52'47"	97°55'11"	--	--	0	4.9	30.5	at US 183 bridge
2	30°50'34"	97°51'32"	--	--	0	3.2	25.6	
2	30°48'37"	97°49'32"	--	--	0	3.0	22.4	
2	30°46'44"	97°47'45"	--	--	0	2.5	19.4	
2	30°45'49"	97°45'13"	Edwards	--	0	2.5	16.9	
2	30°44'51"	97°43'55"	Edwards	--	0	1.6	14.4	
2	30°43'38"	97°44'26"	Edwards	--	0	1.3	12.8	
2	30°43'05"	97°43'43"	Edwards	--	-.21	6.6	11.5	
2	30°42'11"	97°39'58"	Edwards	--	0	1.3	4.9	
2	30°41'27"	97°39'18"	--	--	0	3.2	3.6	
3	30°52'47"	97°55'11"	--	--	4.19	4.9	30.5	at US 183 bridge
3	30°50'34"	97°51'32"	--	--	5.34	3.2	25.6	
3	30°48'37"	97°49'32"	--	--	7.79	3.0	22.4	
3	30°46'44"	97°47'45"	--	--	.8	2.5	19.4	
3	30°45'49"	97°45'13"	Edwards	--	.83	2.5	16.9	
3	30°44'51"	97°43'55"	Edwards	--	-9.26	1.6	14.4	
3	30°43'38"	97°44'26"	Edwards	--	-18.6	1.3	12.8	
3	30°43'05"	97°43'43"	Edwards	--	20.5	6.6	11.5	
3	30°42'11"	97°39'58"	Edwards	--	6.2	1.3	4.9	
3	30°41'27"	97°39'18"	--	--	13.5	3.2	3.6	
4	30°52'47"	97°55'11"	--	--	.37	4.9	30.5	at US 183 bridge
4	30°50'34"	97°51'32"	--	--	.77	3.2	25.6	
4	30°48'37"	97°49'32"	--	--	.83	3.0	22.4	
4	30°46'44"	97°47'45"	--	--	.56	2.5	19.4	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
4	30°45'49"	97°45'13"	Edwards	--	-2.87	2.5	16.9	
4	30°44'51"	97°43'55"	Edwards	--	-.54	1.6	14.4	
4	30°43'38"	97°44'26"	Edwards	--	0	1.3	12.8	
4	30°43'05"	97°43'43"	Edwards	--	4.69	6.6	11.5	
4	30°42'11"	97°39'58"	Edwards	--	6.95	1.3	4.9	
4	30°41'27"	97°39'18"	--	--	10.99	3.2	3.6	
5	30°35'12"	97°52'41"	--	--	.38	2.6	71.6	0.2 mi below SCS reservoir
5	30°34'54"	97°50'30"	Edwards	--	.34	3.1	69	
5	30°34'25"	97°47'22"	Edwards	--	.2	3.2	65.9	
5	30°32'19"	97°46'44"	Edwards	--	1.45	4.8	62.7	
5	30°31'19"	97°42'44"	Edwards	--	.72	2.1	57.9	
5	30°30'45"	97°41'12"	--	--	-1.03	1.0	55.8	
5	30°30'59"	97°39'43"	--	--	3.99	4.0	54.8	
6	30°35'12"	97°52'41"	--	--	0	2.6	71.6	0.2 mi below SCS reservoir
6	30°34'55"	97°50'30"	Edwards	--	-.08	3.1	69	
6	30°34'25"	97°47'22"	Edwards	--	0	3.2	65.9	
6	30°32'19"	97°46'44"	Edwards	--	.02	4.8	62.7	
6	30°31'19"	97°42'44"	Edwards	--	-.02	2.1	57.9	
6	30°30'45"	97°41'12"	--	--	0	1.0	55.8	
6	30°30'57"	97°40'18"	--	--	.15	4.0	54.8	
7	30°35'12"	97°52'41"	--	--	3.77	2.6	71.6	0.2 mi below SCS reservoir
7	30°34'55"	97°50'30"	Edwards	--	6.85	3.1	69	
7	30°34'25"	97°47'22"	Edwards	--	3.34	3.2	65.9	
7	30°32'19"	97°46'44"	Edwards	--	1.27	4.8	62.7	
7	30°31'19"	97°42'44"	Edwards	--	18.6	2.1	57.9	
7	30°30'45"	97°41'12"	--	--	-3.07	1.0	55.8	
7	30°30'57"	97°40'18"	--	--	17.29	4.0	54.8	
8	30°35'12"	97°52'41"	--	--	.9	2.6	71.6	0.2 mi below SCS reservoir
8	30°34'55"	97°50'30"	Edwards	--	.39	3.1	69	
8	30°34'25"	97°47'22"	Edwards	--	.25	3.2	65.9	
8	30°32'19"	97°46'44"	Edwards	--	.79	4.8	62.7	
8	30°31'19"	97°42'44"	Edwards	--	1.46	2.1	57.9	
8	30°30'45"	97°41'12"	--	--	1.01	1.0	55.8	
8	30°30'57"	97°40'18"	--	--	1.77	4.0	54.8	
9	32°38'42"	99°12'24"	--	--	.24	4.8	0	county road crossing
9	32°41'07"	99°09'47"	--	--	-.27	3.5	4.8	gaging station (08086100)
9	32°43'55"	99°08'25"	--	--	.2	3.4	8.3	
9	32°45'07"	99°06'33"	--	--	-3.35	12.4	11.7	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
10	31°05'49"	98°02'22"	Trinity	--	-0.75	2.3	80.1	1 mi above mouth of Sulphur Creek
10	31°04'37"	98°00'45"	Trinity	--	-1.38	12.9	77.8	
10	30°59'40"	97°55'31"	Trinity	--	.46	12.8	64.9	
10	30°58'39"	97°47'51"	Trinity	--	-.77	2.5	52.1	
10	30°58'19"	97°46'37"	Trinity	--	.34	8.0	49.6	
10	30°57'09"	97°41'47"	Trinity	--	-1.85	7.8	41.6	
10	30°59'08"	97°39'06"	--	--	.76	11.8	33.8	
10	31°01'40"	97°34'59"	--	--	-.46	2.8	22	
10	31°00'37"	97°33'52"	Edwards	--	.95	4.4	19.2	
10	31°01'14"	97°30'43"	Edwards	--	-1.99	2.2	14.8	
10	31°00'06"	97°29'31"	Edwards	--	-.81	12.3	12.6	
11	31°02'27"	97°32'08"	Edwards	--	8.2	2.6	15.8	1,500 ft below Stillhouse Hollow Dam
11	31°00'07"	97°29'31"	Edwards	--	5.2	8.4	13.2	gaging station (08001041)
11	30°59'23"	97°26'40"	Edwards	--	2.48	4.7	4.8	
12	31°06'19"	97°28'21"	--	--	3.36	4.4	16.7	300 ft below Belton Dam
12	31°04'11"	97°26'28"	--	--	-52.94	4.4	12.3	
12	31°02'02"	97°26'11"	--	--	52.06	.2	7.9	
13	32°22'17"	98°46'04"	--	--	-.26	5.2	0	300 ft below Olden Lake Dam
13	32°21'52"	98°42'56"	--	--	.01	1.4	5.2	
13	32°20'39"	98°41'54"	--	--	-.22	5.4	6.6	
13	32°20'13"	98°39'08"	--	--	0	3.4	12	
13	32°17'53"	98°38'31"	--	--	-.02	4.4	15.4	
13	32°15'17"	98°36'11"	--	--	.32	3.8	19.8	
13	32°13'14"	98°34'37"	Trinity	--	-.11	9.0	23.6	
13	32°06'47"	98°29'48"	Trinity	--	.31	2.6	32.6	
13	32°04'34"	98°29'30"	Trinity	--	.29	5.8	35.2	
13	31°59'44"	98°29'24"	Trinity	--	-.06	4.5	41	
14	30°44'07"	97°54'55"	Trinity	--	.73	4.0	82.5	50 ft below county road crossing
14	30°41'59"	97°52'27"	Trinity	--	.23	1.0	78.5	
14	30°41'56"	97°51'32"	Trinity	--	-.22	.9	77.5	
14	30°41'51"	97°50'43"	Trinity	--	.34	2.5	76.6	
14	30°41'26"	97°48'45"	Edwards	--	1.81	4.6	74.1	
14	30°40'19"	97°45'01"	Edwards	--	.6	2.6	69.5	
14	30°39'44"	97°43'02"	Edwards	--	.16	1.4	66.9	
15	30°44'07"	97°54'55"	Trinity	--	0	4.0	82.5	50 ft below county road crossing
15	30°42'10"	97°52'36"	Trinity	--	0	1.0	78.5	
15	30°41'56"	97°51'32"	Trinity	--	0	.9	77.5	
15	30°41'51"	97°50'43"	Trinity	--	.03	2.5	76.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
15	30°41'26"	97°48'45"	Edwards	--	0.3	4.6	74.1	
15	30°40'19"	97°45'01"	Edwards	--	-.12	2.6	69.5	
15	30°39'44"	97°43'02"	Edwards	--	-.14	1.4	66.9	
16	30°44'07"	97°54'55"	Trinity	--	.4	4.0	82.5	50 ft below county road crossing
16	30°42'10"	97°52'36"	Trinity	--	4.4	1.0	78.5	
16	30°41'56"	97°51'32"	Trinity	--	7.0	.9	77.5	
16	30°41'51"	97°50'43"	Trinity	--	6.46	2.5	76.6	
16	30°41'26"	97°48'45"	Edwards	--	.42	4.6	74.1	
16	30°40'19"	97°45'01"	Edwards	--	18.0	2.6	69.5	
16	30°39'44"	97°43'02"	Edwards	--	-2.94	1.4	66.9	
17	30°44'07"	97°54'55"	Trinity	--	1.8	4.0	82.5	50 ft below county road crossing
17	30°42'10"	97°52'36"	Trinity	--	1.3	1.0	78.5	
17	30°41'56"	97°51'32"	Trinity	--	-3.6	.9	77.5	
17	30°41'51"	97°50'43"	Trinity	--	5.85	2.5	76.6	
17	30°41'26"	97°48'45"	Edwards	--	1.42	4.6	74.1	
17	30°40'19"	97°45'01"	Edwards	--	3.0	2.6	69.5	
17	30°39'44"	97°43'02"	Edwards	--	-.37	1.4	66.9	
18	30°42'11"	97°52'37"	Trinity	--	-.83	1.0	69	at US 183 bridge
18	30°41'56"	97°51'32"	Trinity	--	-.23	.8	68	
18	30°41'51"	97°50'43"	Trinity	--	.71	2.8	67.2	
18	30°41'25"	97°48'44"	Edwards	--	1.29	4.6	64.4	
18	30°40'43"	97°46'29"	Edwards	--	1.04	5.2	59.8	
19	30°49'59"	97°47'22"	Edwards	--	0	8.9	36	at SH 195
19	30°49'36"	97°41'38"	Edwards	--	-.08	3.6	27.1	
19	30°49'35"	97°38'36"	Edwards	--	.47	3.0	23.5	
19	30°51'54"	97°38'03"	Edwards	--	1.2	3.7	20.5	
19	30°53'49"	97°36'52"	Edwards	--	2.53	6.6	16.8	
19	30°56'48"	97°33'15"	Edwards	--	11.17	.4	10.2	
20	30°51'05"	97°48'18"	Edwards	--	0	8.9	36	at SH 195
20	30°49'36"	97°41'38"	Edwards	--	0	3.6	27.1	
20	30°49'35"	97°38'36"	Edwards	--	.11	3.0	23.5	
20	30°51'54"	97°38'03"	Edwards	--	.3	3.7	20.5	
20	30°53'49"	97°36'52"	Edwards	--	-.69	6.6	16.8	
20	30°56'48"	97°33'15"	Edwards	--	9.24	.4	10.2	
21	30°51'05"	97°48'18"	Edwards	--	5.93	8.9	36	at SH 195
21	30°49'36"	97°41'38"	Edwards	--	-7.61	3.6	27.1	at County Road 232
21	30°49'35"	97°38'36"	Edwards	--	2.24	3.0	23.5	at County Road 309
21	30°51'54"	97°38'03"	Edwards	--	13.64	3.7	20.5	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
21	30°53'49"	97°36'52"	Edwards	--	23.8	6.6	16.8	
21	30°56'48"	97°33'15"	Edwards	--	25.0	.4	10.2	
22	30°51'05"	97°48'18"	Edwards	--	.41	8.9	36	at SH 195
22	30°49'36"	97°41'38"	Edwards	--	-1.6	3.6	27.1	at County Road 232
22	30°49'35"	97°38'36"	Edwards	--	1.53	3.0	23.5	at County Road 309
22	30°51'54"	97°38'03"	Edwards	--	5.54	3.7	20.5	
22	30°53'49"	97°36'52"	Edwards	--	7.11	6.6	16.8	
22	30°56'48"	97°33'15"	Edwards	--	36.1	.4	10.2	
23	32°40'39"	99°16'49"	--	--	.88	4.1	8.3	8.3 mi above mouth
23	32°41'00"	99°16'05"	--	--	-.04	3.7	4.2	gaging station (08086200)
24	30°39'18"	97°38'06"	--	--	-2.06	9.0	51.8	gaging station (08105000)
24	30°38'09"	97°33'00"	--	--	2.71	5.0	42.8	
24	30°37'52"	97°28'13"	--	--	1.7	2.2	37.8	
24	30°38'38"	97°26'19"	--	--	6.28	9.6	35.6	SH 95
24	30°41'10"	97°22'06"	--	--	1.75	4.0	26	
24	30°41'39"	97°16'42"	--	--	2.7	6.0	22	
24	30°41'14"	97°11'34"	--	--	-3.4	4.0	16	FM 486
24	30°41'30"	97°08'15"	--	--	-.84	2.4	12	
24	30°42'36"	97°06'40"	--	--	4.8	4.8	9.6	
24	30°43'38"	97°02'18"	--	--	-3.1	2.0	4.8	FM 487
25	30°37'14"	97°51'38"	Edwards	--	.4	5.4	12.8	at US 183
25	30°36'56"	97°47'01"	Edwards	--	1.21	4.4	7.4	
25	30°37'12"	97°42'31"	Edwards	--	-.23	3.0	3	
26	30°42'55"	98°03'02"	Trinity	--	.24	2.0	31.2	at FM 1174 near Bertram
26	30°42'09"	98°01'52"	Trinity	--	.11	3.1	29.2	
26	30°41'17"	97°59'00"	Trinity	--	.06	2.2	26.1	
26	30°40'31"	97°57'45"	Trinity	--	-.09	2.2	23.9	
26	30°39'32"	97°56'13"	Trinity	--	.25	2.3	21.7	
26	30°38'53"	97°54'35"	Trinity	--	.83	4.9	19.4	
26	30°37'14"	97°51'38"	--	--	-.07	2.8	14.5	
26	30°36'42"	97°49'07"	Edwards	--	.25	3.0	11.7	
26	30°37'10"	97°46'37"	Edwards	--	-3.03	3.9	8.7	
26	30°37'13"	97°43'38"	Edwards	--	1.78	1.0	4.8	
26	30°37'12"	97°42'43"	Edwards	--	3.66	1.5	3.8	
26	30°37'34"	97°41'35"	Edwards	--	1.1	.8	2.3	
27	30°42'55"	98°03'02"	Trinity	--	0	2.0	31.2	at FM 1174 near Bertram
27	30°42'09"	98°01'52"	Trinity	--	0	3.1	29.2	
27	30°41'17"	97°59'00"	Trinity	--	.01	2.2	26.1	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
27	30°40'31"	97°57'45"	Trinity	--	-0.01	2.2	23.9	
27	30°39'32"	97°56'13"	Trinity	--	0	2.3	21.7	
27	30°38'53"	97°54'35"	Trinity	--	20.01	4.9	19.4	
27	30°37'14"	97°51'38"	--	--	-20.01	2.8	14.5	
27	30°36'42"	97°49'07"	Edwards	--	0	3.0	11.7	
27	30°37'10"	97°46'37"	Edwards	--	0	3.9	8.7	
27	30°37'13"	97°43'38"	Edwards	--	.02	1.0	4.8	
27	30°37'12"	97°42'43"	Edwards	--	0	1.5	3.8	
27	30°37'34"	97°41'35"	Edwards	--	-.01	.8	2.3	
28	30°42'55"	98°03'02"	Trinity	--	1.38	2.0	31.2	at FM 1174 near Bertram
28	30°42'09"	98°01'52"	Trinity	--	1.19	3.1	29.2	
28	30°41'17"	97°59'00"	Trinity	--	1.0	2.2	26.1	
28	30°40'31"	97°57'45"	Trinity	--	-.64	2.2	23.9	
28	30°39'32"	97°56'13"	Trinity	--	9.0	2.3	21.7	
28	30°38'53"	97°54'35"	Trinity	--	4.82	4.9	19.4	
28	30°37'14"	97°51'38"	--	--	6.0	2.8	14.5	
28	30°36'42"	97°49'07"	Edwards	--	1.2	3.0	11.7	
28	30°37'10"	97°46'37"	Edwards	--	-46.93	3.9	8.7	
28	30°37'13"	97°43'38"	Edwards	--	55.0	1.0	4.8	
28	30°37'12"	97°42'43"	Edwards	--	.1	1.5	3.8	
28	30°37'34"	97°41'35"	Edwards	--	1.1	.8	2.3	
29	30°42'55"	98°03'02"	Trinity	--	.23	2.0	31.2	at FM 1174 near Bertram
29	30°42'09"	98°01'52"	Trinity	--	.43	3.1	29.2	
29	30°41'17"	97°59'00"	Trinity	--	.33	2.2	26.1	
29	30°40'31"	97°57'45"	Trinity	--	-2.62	.9	23.9	
29	30°40'44"	97°57'00"	Trinity	--	3.71	1.3	23	
29	30°39'32"	97°56'13"	Trinity	--	-.54	2.3	21.7	
29	30°38'53"	97°54'35"	Trinity	--	2.27	4.9	19.4	
29	30°37'14"	97°51'38"	--	--	1.41	2.8	14.5	
29	30°36'42"	97°49'07"	Edwards	--	.33	3.0	11.7	
29	30°37'10"	97°46'37"	Edwards	--	-8.86	3.9	8.7	
29	30°37'13"	97°43'38"	Edwards	--	11.7	1.0	4.8	
29	30°37'12"	97°42'43"	Edwards	--	.6	1.5	3.8	
29	30°37'34"	97°41'35"	Edwards	--	-.4	.8	2.3	
30	31°03'00"	98°11'05"	Trinity	Marble Falls	2.7	.53	0	just south of Hancock Park
30	31°03'17"	98°11'13"	Trinity	--	.7	.24	.53	
30	31°03'17"	98°10'59"	Trinity	--	3.1	.1	.77	
30	31°03'18"	98°10'56"	Trinity	--	3.3	.08	.87	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
30	31°03'19"	98°10'53"	Trinity	--	5.4	2.72	0.95	
31	31°03'00"	98°11'05"	Trinity	Marble Falls	1.8	.53	0	just south of Hancock Park
31	31°03'17"	98°11'13"	Trinity	--	3.5	.24	.53	
31	31°03'17"	98°10'59"	Trinity	--	3.2	.1	.77	
31	31°03'18"	98°10'56"	Trinity	--	1.9	.08	.87	
31	31°03'19"	98°10'53"	Trinity	--	1.3	2.72	.95	
32	30°14'40"	97°48'07"	Edwards	--	-14.04	1.1	4.6	at Loop 360, gaging station (08155300)
32	30°14'41"	97°47'19"	Edwards	--	-2.74	.9	3.5	
32	30°15'08"	97°47'44"	Edwards	--	-.22	.9	2.6	
32	30°15'31"	97°47'02"	Edwards	--	0	.6	1.7	
33	30°14'40"	97°48'07"	Edwards	--	-4.07	1.1	4.6	at Loop 360, gaging station (08155300)
33	30°14'41"	97°47'19"	Edwards	--	-1.41	.9	3.5	
33	30°15'08"	97°47'44"	Edwards	--	.14	.9	2.6	
33	30°15'31"	97°47'02"	Edwards	--	-.09	.6	1.7	
34	30°13'32"	98°09'51"	Trinity	--	.08	.6	50	2 mi northeast of Henly at county road crossing
34	30°13'36"	98°09'12"	Trinity	--	.11	.4	49.4	
34	30°13'52"	98°09'03"	Trinity	--	.09	1.8	49	
34	30°14'36"	98°08'08"	Trinity	--	.78	4.1	47.2	
34	30°14'39"	98°07'18"	Trinity	--	1.79	3.7	43.1	
34	30°14'15"	98°03'58"	Trinity	--	1.89	5.3	39.4	
34	30°14'31"	98°00'38"	Trinity	--	3.09	13.1	34.1	
34	30°17'45"	97°55'33"	Trinity	--	-9.64	4.1	21	
34	30°17'32"	97°53'13"	Trinity	--	0	3.3	16.9	
34	30°18'13"	97°51'52"	Trinity	--	0	2.2	13.6	
34	30°17'26"	97°50'48"	Trinity	--	0	.8	11.4	
34	30°17'17"	97°50'46"	Trinity	--	10.78	1.5	10.6	
34	30°16'30"	97°50'42"	Trinity	--	-10.9	.3	9.1	
34	30°16'25"	97°50'29"	Trinity	--	0	.4	8.8	
34	30°16'16"	97°49'53"	Trinity	--	9.1	.4	8.4	
34	30°16'09"	97°49'28"	Edwards, Trinity	--	-3.36	1.2	8	
34	30°15'14"	97°49'03"	Edwards	--	-5.74	1.0	6.8	
34	30°14'24"	97°48'37"	Edwards	--	0	1.3	5.8	
34	30°14'40"	97°48'07"	Edwards	--	0	2.2	4.5	
34	30°15'17"	97°47'26"	Edwards	--	.04	.3	2.3	
34	30°15'24"	97°47'11"	Edwards	--	-.04	1.0	2	
34	30°15'48"	97°46'26"	Edwards	--	1.49	.2	1	
34	30°15'48"	97°46'20"	--	--	99.51	.3	.8	
35	30°13'32"	98°09'51"	Trinity	--	0	.6	50	2 mi northeast of Henly at county road crossing

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
35	30°13'36"	98°09'12"	Trinity	--	0	0.4	49.4	
35	30°13'51"	98°09'05"	Trinity	--	.01	1.8	49	
35	30°14'36"	98°08'08"	Trinity	--	.15	4.1	47.2	
35	30°14'39"	98°07'18"	Trinity	--	.15	3.7	43.1	
35	30°14'15"	98°03'58"	Trinity	--	.28	5.3	39.4	
35	30°14'31"	98°00'38"	Trinity	--	.64	13.1	34.1	
35	30°17'45"	97°55'33"	Trinity	--	-1.29	4.1	21	
35	30°17'32"	97°53'13"	Trinity	--	.11	3.3	16.9	
35	30°18'13"	97°51'52"	Trinity	--	-.11	2.2	13.6	
35	30°17'26"	97°50'48"	Trinity	--	.02	.8	11.4	
35	30°17'17"	97°50'46"	Trinity	--	-.02	1.5	10.6	
35	30°16'30"	97°50'42"	Trinity	--	.01	.3	9.1	
35	30°16'31"	97°50'16"	Trinity	--	-.01	.4	8.8	
35	30°16'16"	97°49'53"	Trinity	--	0	.4	8.4	
35	30°16'09"	97°49'28"	Edwards, Trinity	--	0	1.2	8	
35	30°15'14"	97°49'03"	Edwards	--	0	1.0	6.8	
35	30°14'24"	97°48'37"	Edwards	--	0	1.3	5.8	
35	30°14'40"	97°48'07"	Edwards	--	0	2.2	4.5	
35	30°15'17"	97°47'26"	Edwards	--	0	.3	2.3	
35	30°15'24"	97°47'11"	Edwards	--	0	1.0	2	
35	30°15'48"	97°46'26"	Edwards	--	.36	.2	1	
35	30°15'48"	97°46'20"	--	--	82.14	.3	.8	includes flow from spring at SH 71, gaging station (08155200)
36	30°17'45"	97°55'31"	Trinity	--	1.0	3.1	21	
36	30°18'01"	97°54'01"	Trinity	--	6.0	3.6	17.9	
36	30°17'53"	97°52'40"	Trinity	--	5.0	3.4	14.3	
36	30°17'46"	97°51'05"	Trinity	--	-.1	.9	10.9	
36	30°16'57"	97°51'07"	Trinity	--	.72	.9	10	
36	30°16'26"	97°50'38"	Trinity	--	-.7	1.3	9.1	
36	30°16'10"	97°49'39"	Edwards, Trinity	--	-2.3	.5	7.8	
36	30°15'54"	97°49'22"	Edwards	--	-1.2	.5	7.3	
36	30°15'30"	97°49'21"	Edwards	--	-7.1	.7	6.8	
36	30°15'09"	97°48'54"	Edwards	--	-14.3	1.5	6.1	
36	30°14'40"	97°48'07"	Edwards	--	-8.1	1.1	4.6	gaging station (08155300)
36	30°14'41"	97°47'19"	Edwards	--	-2.1	.9	3.5	
36	30°15'08"	97°47'44"	Edwards	--	2.4	.9	2.6	
36	30°15'31"	97°47'02"	Edwards	--	2.0	.6	1.7	
36	30°15'45"	97°46'45"	Edwards	--	29.8	1.1	1.1	
37	32°15'14"	101°28'48"	Ogallala	--	-.04	4.2	59.2	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
37	32°15'25"	101°28'22"	Ogallala	--	5.15	6.2	55	discontinued gaging station (08123650)
37	32°15'27"	101°25'48"	Ogallala	--	-5.14	2.2	48.8	
37	32°15'01"	101°23'52"	Ogallala	Dockum	.07	6.7	46.6	discontinued gaging station (08123720)
37	32°15'14"	101°19'26"	--	Dockum	.26	7.1	39.9	
37	32°13'26"	101°15'57"	--	Dockum	-.23	17.6	32.8	
37	32°11'56"	101°00'46"	--	Dockum	-.11	14.7	15.2	gaging station (08123800)
38	32°15'14"	101°28'48"	Ogallala	--	7.52	4.2	59.2	
38	32°15'25"	101°28'22"	Ogallala	--	5.5	6.2	55	discontinued gaging station (08123650)
38	32°15'27"	101°25'48"	Ogallala	--	-16.55	2.2	48.8	
38	32°15'01"	101°23'52"	Ogallala	Dockum	-.23	6.7	46.6	discontinued gaging station (08123720)
38	32°15'14"	101°19'26"	--	Dockum	1.32	7.1	39.9	
38	32°13'26"	101°15'57"	--	Dockum	3.36	17.6	32.8	
38	32°11'56"	101°00'46"	--	Dockum	1.93	14.7	15.2	gaging station (08123800)
39	32°15'34"	101°28'04"	Ogallala	--	5.46	4.2	59.2	discontinued gaging station (08123650)
39	32°15'21"	101°25'48"	Ogallala	--	-5.34	6.2	55	
39	32°14'49"	101°23'45"	Ogallala	Dockum	2.15	2.2	48.8	discontinued gaging station (08123720)
39	32°14'57"	101°19'26"	--	Dockum	.1	6.7	46.6	
39	32°13'14"	101°15'57"	--	Dockum	.17	24.7	39.9	
39	32°12'05"	101°00'46"	--	Dockum	1.34	14.7	15.2	gaging station (08123800)
40	30°09'21"	97°56'32"	Trinity	--	17.66	2.0	11	gaging station (08158810)
40	30°10'06"	97°55'31"	Edwards, Trinity	--	12.1	1.4	9	
40	30°09'45"	97°54'32"	Edwards	--	-10.7	1.6	7.6	
40	30°09'31"	97°53'41"	Edwards	--	-3.6	1.1	6	
40	30°09'20"	97°52'57"	Edwards	--	-9.0	1.1	4.9	
40	30°08'54"	97°51'55"	Edwards	--	-3.4	1.2	3.8	
40	30°08'24"	97°50'49"	--	--	-6.86	1.7	2.6	gaging station (08158820)
41	31°08'16"	99°20'06"	--	Ellenburger-San Saba	1.0	13.0	28	at Brady
41	31°06'00"	99°12'21"	--	Ellenburger-San Saba, Marble Falls	.7	15.0	15	
42	32°35'03"	101°07'48"	--	Dockum	.01	11.7	239.1	
42	32°32'20"	101°03'14"	--	Dockum	-.36	9.3	227.4	discontinued gaging station (08119500)
42	32°32'39"	100°58'04"	--	Dockum	.93	9.3	218.1	
42	32°28'41"	100°56'52"	--	Dockum	-4.65	9.5	208.8	
42	32°27'28"	100°57'36"	--	Dockum	7.95	2.0	199.3	
42	32°25'25"	100°53'49"	--	Dockum	-8.2	.9	197.3	
42	32°24'51"	100°54'25"	--	Dockum	.28	2.6	196.4	
42	32°23'33"	100°52'40"	--	Dockum	.5	2.5	193.8	
42	32°22'35"	100°51'39"	--	Dockum	.87	7.0	191.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
42	32°19'44"	100°54'21"	--	Dockum	-0.25	7.7	184.3	
42	32°16'40"	100°52'55"	--	--	-2.85	3.8	176.6	
42	32°15'08"	100°52'04"	--	--	2.18	4.0	172.8	
42	32°12'33"	100°52'19"	--	--	-2.18	5.8	168.8	
42	32°09'59"	100°50'06"	--	--	2.67	13.4	163	
42	32°03'37"	100°45'54"	--	--	-3.3	43.6	149.6	gaging station (08123850)
42	31°53'07"	100°28'48"	--	--	-0.05	6.2	106	
42	31°51'03"	100°25'30"	--	--	.08	5.6	99.8	
42	31°51'24"	100°21'57"	--	--	.51	5.6	94.2	
42	31°50'51"	100°17'27"	--	--	1.1	6.7	88.6	
42	31°48'33"	100°12'57"	--	--	-1.73	4.6	81.9	
42	31°47'31"	100°11'02"	--	--	2.09	6.1	77.3	
42	31°45'14"	100°08'20"	--	--	.2	11.1	71.2	
42	31°42'52"	100°01'33"	--	--	.85	6.0	60.1	gaging station (08126380)
42	31°43'47"	99°56'27"	--	--	.63	6.5	54.1	
42	31°41'13"	99°54'02"	--	--	-49	10.0	47.6	
42	31°38'09"	99°49'54"	--	--	5.0	19.3	37.6	
42	31°33'22"	99°40'39"	--	--	.1	18.3	18.3	
43	32°35'03"	101°07'48"	--	Dockum	.86	11.7	239.1	
43	32°32'20"	101°03'14"	--	Dockum	1.11	9.3	227.4	discontinued gaging station (08119500)
43	32°32'39"	100°58'04"	--	Dockum	2.11	9.3	218.1	
43	32°28'41"	100°56'52"	--	Dockum	4.64	9.5	208.8	gaging station (08120700)
43	32°27'28"	100°57'36"	--	Dockum	-24.35	2.0	199.3	
43	32°25'25"	100°53'49"	--	Dockum	24.8	.9	197.3	
43	32°24'51"	100°54'25"	--	Dockum	-8	2.6	196.4	
43	32°23'33"	100°52'40"	--	Dockum	2.15	2.5	193.8	gaging station (08121000)
43	32°22'35"	100°51'39"	--	Dockum	6.0	7.0	191.3	
43	32°19'44"	100°54'21"	--	Dockum	-37.2	7.7	184.3	
43	32°16'40"	100°52'55"	--	--	35.51	3.8	176.6	
43	32°15'08"	100°52'04"	--	--	0	4.0	172.8	
43	32°12'33"	100°52'19"	--	--	.5	5.8	168.8	
43	32°09'59"	100°50'06"	--	--	1.32	13.4	163	
43	32°03'37"	100°45'54"	--	--	-92.54	43.6	149.6	gaging station (08123850)
43	31°53'07"	100°28'48"	--	--	2.27	6.2	106	
43	31°51'03"	100°25'30"	--	--	3.41	5.6	99.8	
43	31°51'24"	100°21'57"	--	--	3.23	5.6	94.2	
43	31°50'51"	100°17'27"	--	--	7.69	6.7	88.6	
43	31°48'33"	100°12'57"	--	--	-4.11	4.6	81.9	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
43	31°47'31"	100°11'02"	--	--	7.7	6.1	77.3	
43	31°45'14"	100°08'20"	--	--	-1.75	11.1	71.2	
43	31°43'04"	100°01'55"	--	--	4.0	6.0	60.1	gaging station (08126380)
43	31°43'04"	100°01'55"	--	--	-150.4	6.5	54.1	
43	31°41'13"	99°54'02"	--	--	151.0	10.0	47.6	
43	31°38'09"	99°49'54"	--	--	19.1	19.3	37.6	
43	31°33'22"	99°40'39"	--	--	10.11	18.3	18.3	
44	32°35'03"	101°07'48"	--	Dockum	.78	11.7	239.1	
44	32°32'20"	100°03'14"	--	Dockum	.69	9.3	227.4	discontinued gaging station (08119500)
44	32°32'39"	100°58'04"	--	Dockum	4.56	9.3	218.1	
44	32°28'41"	100°56'52"	--	Dockum	-.1	9.5	208.8	gaging station (08120700)
44	32°27'28"	100°57'36"	--	Dockum	8.12	2.0	199.3	
44	32°25'25"	100°53'49"	--	Dockum	-22.64	.9	197.3	
44	32°24'51"	100°54'25"	--	Dockum	1.75	2.6	196.4	
44	32°23'33"	100°52'40"	--	Dockum	.72	2.5	193.8	gaging station (08121000)
44	32°22'35"	100°51'39"	--	Dockum	4.44	7.0	191.3	
44	32°19'44"	100°54'21"	--	Dockum	-9.38	7.7	184.3	
44	32°16'40"	100°52'55"	--	--	-.05	3.8	176.6	
44	32°15'08"	100°52'04"	--	--	24.3	4.0	172.8	
44	32°12'33"	100°52'19"	--	--	-7.76	5.8	168.8	
44	32°09'59"	100°50'06"	--	--	3.15	13.4	163	
44	32°03'37"	100°45'54"	--	--	-27.66	43.6	149.6	gaging station (08123850)
44	31°53'07"	100°28'48"	--	--	.22	6.2	106	gaging station (08124000)
44	31°51'03"	100°25'30"	--	--	-.52	5.6	99.8	
44	31°51'24"	100°21'57"	--	--	1.67	5.6	94.2	
44	31°50'51"	100°17'27"	--	--	3.28	6.7	88.6	
44	31°48'33"	100°12'57"	--	--	-.05	4.6	81.9	
44	31°47'31"	100°11'02"	--	--	1.08	6.1	77.3	
44	31°45'14"	100°08'20"	--	--	2.63	11.1	71.2	
44	31°43'04"	100°01'55"	--	--	6.0	6.0	60.1	
44	31°43'04"	100°01'55"	--	--	.36	6.5	54.1	
44	31°41'13"	99°54'02"	--	--	-2.6	10.0	47.6	
44	31°38'09"	99°49'54"	--	--	.8	19.3	37.6	
44	31°33'22"	99°40'39"	--	--	.8	18.3	18.3	
45	32°34'58"	101°05'42"	--	Dockum	.15	.1	831.8	50 ft above Bull Creek
45	32°34'54"	101°05'42"	--	Dockum	-.04	2.9	831.7	
45	32°34'17"	101°03'18"	--	Dockum	.16	2.5	828.8	
45	32°32'17"	101°03'10"	--	Dockum	.18	2.3	826.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
45	32°30'42"	101°01'40"	--	Dockum	-0.17	6.2	824	
45	32°32'25"	100°56'52"	--	Dockum	.24	3.5	817.8	
45	32°30'51"	100°54'43"	--	Dockum	3.52	3.7	814.3	
45	32°28'41"	100°56'52"	--	Dockum	-.78	6.2	810.6	
45	32°26'35"	100°56'42"	--	Dockum	.56	2.3	804.4	
45	32°25'50"	100°54'57"	--	Dockum	2.05	3.2	802.1	
45	32°24'51"	100°54'25"	--	Dockum	2.11	2.6	798.9	
46	32°34'58"	101°05'42"	--	Dockum	.05	.1	831.8	50 ft above Bull Creek
46	32°34'54"	101°05'42"	--	Dockum	-.01	2.9	831.7	
46	32°34'17"	101°03'18"	--	Dockum	.08	2.5	828.8	
46	32°32'17"	101°03'10"	--	Dockum	.18	2.3	826.3	
46	32°30'42"	101°01'40"	--	Dockum	-.04	6.2	824	
46	32°32'25"	100°56'52"	--	Dockum	.09	3.5	817.8	
46	32°30'51"	100°54'43"	--	Dockum	.82	3.7	814.3	
46	32°28'41"	100°56'52"	--	Dockum	.63	6.2	810.6	
46	32°26'35"	100°56'42"	--	Dockum	.1	2.3	804.4	
46	32°25'50"	100°54'57"	--	Dockum	2.71	3.2	802.1	
46	32°24'51"	100°54'25"	--	Dockum	.35	2.6	798.9	
47	32°34'58"	101°05'42"	--	Dockum	.12	.1	831.8	50 ft above Bull Creek
47	32°34'54"	101°05'42"	--	Dockum	.06	2.9	831.7	
47	32°34'17"	101°03'18"	--	Dockum	.01	2.5	828.8	
47	32°32'17"	101°03'10"	--	Dockum	.34	2.3	826.3	
47	32°30'42"	100°01'40"	--	Dockum	-.1	6.2	824	
47	32°32'25"	100°56'52"	--	Dockum	-.01	3.5	817.8	
47	32°30'51"	100°54'43"	--	Dockum	1.02	3.7	814.3	
47	32°28'41"	100°56'52"	--	Dockum	.57	6.2	810.6	
47	32°26'35"	100°56'42"	--	Dockum	.07	2.3	804.4	
47	32°25'50"	100°54'57"	--	Dockum	-4.4	3.2	802.1	
47	32°24'51"	100°54'25"	--	Dockum	.08	2.6	798.9	
48	32°34'58"	101°05'42"	--	Dockum	.1	.1	831.8	50 ft above Bull Creek
48	32°34'54"	100°05'42"	--	Dockum	-.01	2.9	831.7	
48	32°34'17"	101°03'18"	--	Dockum	.08	2.5	828.8	
48	32°32'17"	101°03'10"	--	Dockum	.17	2.3	826.3	
48	32°30'42"	101°01'40"	--	Dockum	-.24	6.2	824	
48	32°32'25"	100°56'52"	--	Dockum	.28	3.5	817.8	
48	32°30'51"	100°54'43"	--	Dockum	1.63	3.7	814.3	
48	32°28'41"	100°56'52"	--	Dockum	.53	6.2	810.6	
48	32°26'35"	100°56'42"	--	Dockum	-.24	2.3	804.4	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
48	32°25'50"	100°54'57"	--	Dockum	-4.74	3.2	802.1	
48	32°24'51"	100°54'25"	--	Dockum	.19	2.6	798.9	
49	30°14'42"	97°41'27"	Carrizo-Wilcox	--	-257.95	68.5	290.1	gaging station (08158000)
49	30°10'02"	97°24'09"	Carrizo-Wilcox	--	70.0	15.1	221.6	at FM 969
49	30°07'05"	97°19'54"	Carrizo-Wilcox	Sparta	-91.1	26.7	236.7	gaging station (08159200)
49	30°00'55"	97°08'46"	--	Sparta	0	35.5	210	
49	29°54'46"	96°53'44"	Gulf Coast	--	-40.15	30.9	174.5	discontinued partial-record station (08160500)
49	29°42'55"	96°32'31"	Gulf Coast	--	158.23	8.5	143.6	gaging station (08160700)
49	29°42'17"	96°32'12"	Gulf Coast	--	-20.0	21.7	135.1	gaging station (08161000)
49	29°34'47"	96°25'02"	Gulf Coast	--	-770.0	10.5	113.4	
49	29°27'11"	96°23'46"	Gulf Coast	--	-90.0	27.0	102.9	
49	29°20'09"	96°11'52"	Gulf Coast	--	-119.0	9.3	75.9	
49	29°18'20"	96°06'34"	Gulf Coast	--	-474.27	34.1	66.6	gaging station (08162000)
50	32°01'09"	100°44'06"	--	--	-45	14.4	0	gaging station near Silver (08123900)
50	31°58'51"	100°36'21"	--	--	-6	1.0	14.4	
50	31°58'21"	100°35'31"	--	--	-1.92	19.3	15.4	
51	32°01'09"	100°44'06"	--	--	-84	1.2	0	gaging station near Silver (08123900)
51	32°00'39"	100°43'08"	--	--	.54	6.3	1.2	
51	31°58'31"	100°39'43"	--	--	.03	3.0	7.5	
51	31°58'24"	100°38'27"	--	--	-83	3.9	10.5	
51	31°58'51"	100°36'21"	--	--	-19	1.0	14.4	
51	31°58'21"	100°35'31"	--	--	-1	1.7	15.4	
51	31°57'16"	100°35'13"	--	--	.17	3.1	17.1	
51	31°56'07"	100°34'01"	--	--	.02	2.8	20.2	
51	31°54'46"	100°34'01"	--	--	-1.49	11.7	23	
52	32°35'03"	101°07'48"	--	Dockum	.45	10.3	836.6	below Lake J.B. Thomas near Vincent (08118000)
52	32°32'17"	101°03'10"	--	Dockum	-05	2.3	826.3	
52	32°30'42"	101°01'40"	--	Dockum	-2	5.0	824	
52	32°32'39"	100°58'04"	--	Dockum	-02	5.6	819	
52	32°30'27"	100°55'04"	--	Dockum	.38	2.8	813.4	
52	32°28'41"	100°56'52"	--	Dockum	.71	2.8	810.6	
52	32°27'21"	100°57'07"	--	Dockum	-77	3.4	807.8	
52	32°26'34"	100°56'45"	--	Dockum	.33	4.3	804.4	
52	32°25'36"	100°53'49"	--	Dockum	.18	3.8	800.1	
52	32°23'33"	100°52'40"	--	Dockum	1.36	8.0	796.3	
52	32°19'41"	100°54'28"	--	Dockum	-07	7.5	788.3	
52	32°16'41"	100°52'19"	--	--	-31	10.4	780.8	
52	32°11'03"	100°51'00"	--	--	0	.9	770.4	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
52	32°10'45"	100°51'18"	--	--	-1.74	9.2	769.5	
52	32°05'13"	100°47'24"	--	--	-.21	3.7	760.3	
52	32°03'12"	100°45'39"	--	--	.67	8.8	756.6	
52	32°01'09"	100°44'06"	--	--	.63	1.2	747.8	
52	32°00'39"	100°43'08"	--	--	-.01	6.3	746.6	
52	31°58'31"	100°39'43"	--	--	-.72	3.0	740.3	
52	31°58'24"	100°38'27"	--	--	-.79	2.8	737.3	
52	31°58'01"	100°36'36"	--	--	-.1	1.1	734.5	
53	31°52'51"	100°29'16"	--	--	0	9.0	0	at Robert Lee
53	31°51'25"	100°22'58"	--	--	.1	7.0	9	near Robert Lee gaging station (08124000)
53	31°50'34"	100°18'57"	--	--	-.1	14.0	16	
53	31°48'26"	100°13'37"	--	--	.2	20.0	30	
53	31°43'55"	99°56'59"	--	--	.3	7.0	50	
53	31°41'15"	99°54'05"	--	--	0	2.0	57	
53	31°40'55"	99°52'08"	--	--	1.1	4.0	59	
53	31°35'52"	99°46'42"	--	--	3.9	6.0	63	
53	31°34'14"	99°43'28"	--	--	2.5	3.0	69	
53	31°31'54"	99°41'17"	--	--	2.5	3.0	72	
53	31°30'10"	99°40'34"	--	--	-.4	1.0	75	
53	31°29'51"	99°39'49"	--	--	-.2	8.0	76	
53	31°25'28"	99°30'46"	--	--	1.2	12.0	84	
53	31°29'51"	99°36'31"	--	--	1.9	8.0	96	
53	31°26'41"	99°29'39"	--	--	-.4	14.0	104	
53	31°25'52"	99°21'27"	--	--	4.7	16.0	118	
53	31°27'12"	99°06'14"	--	--	-.9	10.0	134	
53	31°28'48"	99°00'07"	--	--	-1.0	15.0	144	
53	31°25'03"	98°51'10"	--	--	2.4	15.0	159	
53	31°24'39"	98°43'40"	--	--	4.2	11.0	174	
53	31°21'10"	98°40'17"	--	--	1.2	10.0	185	
53	31°18'45"	98°36'14"	--	--	-3.5	3.0	195	
53	31°17'50"	98°35'49"	--	--	-.1	4.0	198	
53	31°13'24"	98°33'46"	--	--	8.43	16.0	202	
53	31°05'59"	98°30'50"	--	Ellenburger-San Saba	20.9	25.0	218	
53	30°51'12"	98°25'09"	--	--	-11.7	8.0	243	
53	30°50'39"	98°22'36"	--	Hickory	-29.9	11.0	251	
53	30°45'22"	98°22'31"	--	--	50.7	13.0	262	
53	30°38'29"	98°24'59"	--	--	-17.0	5.0	275	
53	30°34'05"	98°24'26"	--	--	-16.2	5.0	280	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
53	30°33'13"	98°20'34"	--	Ellenburger-San Saba, Marble Falls	9.3	5.0	285	
53	30°33'45"	98°15'36"	Trinity	Ellenburger-San Saba	53.1	26.0	290	
53	30°25'53"	98°03'28"	Trinity	--	-13.4	6.0	316	
53	30°24'49"	98°00'47"	Trinity	--	11.8	3.0	322	
53	30°23'56"	97°57'45"	Trinity	--	9.9	9.0	325	
53	30°27'52"	97°54'43"	Edwards, Trinity	--	1.0	31.0	334	
54	31°52'51"	100°29'16"	--	--	0	14.0	0	at Robert Lee
54	31°50'52"	100°17'45"	--	--	0	6.0	14	
54	31°48'26"	100°13'37"	--	--	0	22.0	20	
54	31°43'47"	99°56'27"	--	--	0	19.0	42	gaging station at Ballinger (08126380)
54	31°34'15"	99°43'28"	--	--	0	19.0	61	
54	31°29'29"	99°34'43"	--	--	0	16.0	80	
54	31°28'10"	99°26'57"	--	--	0	14.0	96	
54	31°25'53"	99°17'58"	--	--	0	16.0	110	
54	31°27'44"	99°07'49"	--	--	0	8.0	126	
54	31°28'48"	99°00'16"	--	--	3.8	30.0	134	
54	31°25'36"	98°43'26"	--	--	7.7	26.0	164	
54	31°15'14"	98°35'37"	--	--	-1.2	3.0	190	
54	31°15'12"	98°34'28"	--	--	-1	15.0	193	
54	31°05'19"	98°31'26"	--	Ellenburger-San Saba	3.5	24.0	208	
54	30°55'40"	98°24'59"	--	Ellenburger-San Saba	0	9.0	232	
54	30°48'51"	98°28'30"	--	--	-9	7.0	241	
54	30°44'53"	98°23'50"	--	--	.9	15.0	248	
54	30°37'47"	98°25'12"	--	--	-1	5.0	263	
54	30°33'32"	98°25'33"	--	--	-6	8.0	268	
54	30°33'21"	98°20'12"	Trinity	Ellenburger-San Saba	6.0	28.0	276	
54	30°25'59"	98°03'32"	Trinity	--	.3	6.0	304	
54	30°25'14"	98°02'03"	Trinity	--	-1.7	4.0	310	
54	30°22'37"	97°59'43"	Trinity	--	-9	9.0	314	
54	30°27'15"	97°55'25"	Trinity	--	1.4	13.0	323	
54	30°20'53"	97°52'13"	Edwards, Trinity	--	11.5	12.0	336	
54	30°17'36"	97°47'10"	Edwards	--	3.7	1.0	348	
54	30°16'54"	97°46'54"	Edwards	--	.4	2.0	349	
54	30°15'38"	97°44'43"	--	--	27.4	16.0	351	
54	30°15'43"	97°39'09"	--	--	-3	2.0	367	
54	30°12'33"	97°35'43"	--	--	15.1	14.0	369	
54	30°12'18"	97°28'59"	Carrizo-Wilcox	--	20.2	20.0	383	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
54	30°05'34"	97°20'22"	Carrizo-Wilcox	--	17.3	23.0	403	
54	30°00'45"	97°09'39"	--	--	1.0	12.0	426	
54	29°58'59"	97°01'59"	--	--	21.0	15.0	438	
54	29°56'27"	96°54'31"	Gulf Coast	--	9.0	17.0	453	
54	29°46'44"	96°42'06"	Gulf Coast	--	12.0	17.0	470	
54	29°42'55"	96°32'30"	Gulf Coast	--	27.2	24.0	487	
54	29°34'24"	96°24'22"	Gulf Coast	--	6.2	9.0	511	
54	29°28'28"	96°23'07"	Gulf Coast	--	50.0	21.0	520	
54	29°20'50"	96°13'12"	Gulf Coast	--	14.8	6.0	541	
54	29°18'44"	96°06'59"	Gulf Coast	--	85.2	28.0	547	
54	28°56'18"	96°00'35"	Gulf Coast	--	.8	18.0	575	
55	31°27'32"	100°25'15"	--	Lipan	7.25	15.5	58.2	gaging station (08136000)
55	31°32'01"	100°14'38"	--	Lipan	-6.42	11.5	42.7	
55	31°31'12"	100°05'34"	--	Lipan	4.09	12.9	31.2	
55	31°30'56"	99°55'09"	--	--	-5.78	8.3	18.3	gaging station (08136500)
55	31°32'14"	99°48'50"	--	--	8.11	6.5	10	
56	31°27'11"	100°24'36"	--	Lipan	25.8	15.5	58.2	gaging station (08136000)
56	31°32'01"	100°14'38"	--	Lipan	6.6	11.5	42.7	
56	31°31'12"	100°05'34"	--	Lipan	2.96	12.9	31.2	
56	31°30'56"	99°55'09"	--	--	3.57	8.3	18.3	gaging station (08136500)
56	31°32'14"	99°48'50"	--	--	-2.7	6.5	10	
57	31°27'11"	100°24'36"	--	Lipan	17.84	15.5	58.2	gaging station (08136000)
57	31°32'01"	100°14'38"	--	Lipan	14.5	11.5	42.7	
57	31°32'01"	100°14'38"	--	Lipan	-3.44	12.9	31.2	
57	31°30'56"	99°55'09"	--	--	5.7	8.3	18.3	gaging station (08136500)
57	31°32'14"	99°48'50"	--	--	3.2	6.5	10	
58	31°27'15"	100°24'57"	--	Lipan	1.3	.2	0	at confluence of North and South Concho Rivers
58	31°27'11"	100°24'36"	--	Lipan	-9	13.8	.2	
58	31°31'54"	100°15'14"	--	Lipan	2.0	3.0	14	
58	31°32'08"	100°13'04"	--	Lipan	3.7	1.0	17	
58	31°31'35"	100°12'39"	--	Lipan	-8	14.0	18	
58	31°30'56"	99°55'09"	--	--	-7	19.5	32	
59	31°27'11"	100°24'36"	--	Lipan	-3	8.0	0	at gaging station near San Angelo (08136000)
59	31°27'00"	100°22'55"	--	Lipan	-3.1	6.0	8	
59	31°29'03"	100°18'43"	--	Lipan	.3	2.0	14	
59	31°30'09"	100°18'18"	--	Lipan	2.9	1.0	16	
59	31°30'05"	100°18'00"	--	Lipan	6.7	1.0	17	
59	31°30'22"	100°17'16"	--	Lipan	-1.5	.5	18	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
59	31°30'42"	100°17'24"	--	Lipan	0	1.9	18.5	
59	31°31'01"	100°16'51"	--	Lipan	0	5.3	20.4	
59	31°31'20"	100°15'43"	--	Lipan	.2	8.3	25.7	
59	31°31'00"	99°58'40"	--	--	.5	3.0	34	
59	31°30'56"	99°55'08"	--	--	.9	17.5	37	
60	31°19'49"	100°36'00"	--	--	-6	1.1	0	just below spring source
60	31°19'22"	100°36'18"	--	--	11.0	3.3	1.1	
60	31°18'41"	100°37'15"	--	--	5.8	4.3	4.4	
60	31°15'51"	100°38'20"	Edwards-Trinity Plateau	--	-5	3.1	8.7	
61	31°58'45"	99°51'59"	--	--	.04	3.0	21.2	FM 1770
61	31°56'03"	99°52'04"	--	--	-.04	6.0	18.2	FM 53
61	31°51'47"	99°53'52"	--	--	.09	.7	12.2	FM 2647
61	31°51'27"	99°54'12"	--	--	-.88	5.1	11.5	
61	31°47'49"	99°56'00"	--	--	.79	1.5	6.4	US 83
61	31°47'29"	99°56'33"	--	--	-.53	2.1	4.9	
62	31°58'45"	99°51'59"	--	--	3.06	3.0	21.2	FM 1770
62	31°56'03"	99°52'04"	--	--	3.81	6.0	18.2	FM 53
62	31°51'47"	99°53'52"	--	--	-6.87	.7	12.2	FM 2647
62	31°51'27"	99°54'12"	--	--	9.5	5.1	11.5	
62	31°47'49"	99°56'00"	--	--	-36.2	1.5	6.4	US 83
62	31°47'29"	99°56'33"	--	--	39.4	2.1	4.9	
63	31°58'45"	99°51'59"	--	--	.01	3.0	21.2	FM 1770
63	31°56'03"	99°52'04"	--	--	-.01	6.0	18.2	FM 53
63	31°51'47"	99°53'52"	--	--	0	.7	12.2	FM 2647
63	31°51'27"	99°54'12"	--	--	-1.58	5.1	11.5	
63	31°47'49"	99°56'00"	--	--	2.04	1.5	6.4	US 83
63	31°47'29"	99°56'33"	--	--	.22	2.1	4.9	
64	30°30'23"	99°40'47"	Edwards-Trinity Plateau	--	7.0	.9	0	at springs 8.3 mi above Segovia
64	30°29'42"	99°40'19"	Edwards-Trinity Plateau	--	3.5	3.1	.9	
64	30°27'40"	99°40'28"	Edwards-Trinity Plateau	--	.8	1.3	4	
64	30°27'04"	99°40'27"	Edwards-Trinity Plateau	--	.2	1.4	5.3	
64	30°26'04"	99°40'26"	Edwards-Trinity Plateau	--	-1.0	3.3	6.7	
64	30°23'51"	99°39'28"	Edwards-Trinity Plateau	--	-.8	2.1	10	
64	30°22'10"	99°38'30"	Edwards-Trinity Plateau	--	-.8	4.7	12.1	
65	30°29'21"	99°45'32"	Edwards-Trinity Plateau	--	0	3.1	0	0.2 mi above confluence with North Llano River
65	30°30'26"	99°44'09"	Edwards-Trinity Plateau	--	-4.0	.9	3.1	
65	30°29'45"	99°43'19"	Edwards-Trinity Plateau	--	6.0	2.3	4	gaging station (08150000)
65	30°30'52"	99°42'00"	Edwards-Trinity Plateau	--	4.2	3.8	6.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
65	30°31'07"	99°40'14"	Edwards-Trinity Plateau	--	-6.0	1.9	10.1	
65	30°31'37"	99°38'37"	Edwards-Trinity Plateau	--	1.65	3.8	12	
65	30°33'09"	99°36'02"	Edwards-Trinity Plateau	--	4.0	2.7	15.8	
65	30°34'44"	99°35'48"	Edwards-Trinity Plateau	--	.98	3.5	18.5	
65	30°35'08"	99°33'35"	--	Ellenburger-San Saba, Marble Falls	2.95	3.1	22	
65	30°37'42"	99°30'55"	--	Ellenburger-San Saba	-7.61	8.5	25.1	
65	30°41'03"	99°23'47"	--	Ellenburger-San Saba	10.0	6.4	33.6	
65	30°39'28"	99°19'26"	--	Ellenburger-San Saba	-4.11	4.6	40	
65	30°38'58"	99°14'31"	--	Hickory	-8.7	5.4	44.6	
65	30°38'10"	99°10'31"	--	Hickory	-1.0	5.1	50	
65	30°39'42"	99°05'24"	--	--	7.5	5.8	55.1	
65	30°42'01"	99°01'27"	--	--	-2.0	6.5	60.9	
65	30°42'20"	98°55'40"	--	--	-3.22	6.9	67.4	
65	30°43'34"	98°48'41"	--	--	3.7	6.8	74.3	
65	30°45'09"	98°40'24"	--	--	3.5	2.4	81.1	
66	30°29'31"	99°45'20"	Edwards-Trinity Plateau	--	-3.03	10.0	0	near Junction gaging station (08150000)
66	30°32'13"	99°37'34"	Edwards-Trinity Plateau	--	-2.2	6.0	10	
66	30°35'19"	99°35'50"	Edwards-Trinity Plateau	Ellenburger-San Saba	-7.93	19.0	16	
66	30°38'52"	99°18'07"	--	Ellenburger-San Saba	-3.1	4.0	35	
66	30°38'16"	99°13'28"	--	--	-1.84	8.0	39	
66	30°39'38"	99°06'33"	--	--	-7.2	12.0	47	
66	30°42'12"	98°57'30"	--	--	-0.1	5.0	59	
66	30°42'41"	98°53'03"	--	--	0	12.0	64	
66	30°45'05"	98°42'22"	--	--	0	3.0	76	
67	30°29'27"	99°45'29"	Edwards-Trinity Plateau	--	11.6	3.0	0	just above Llano River
67	30°29'45"	99°43'19"	Edwards-Trinity Plateau	--	-9	4.0	3	
67	30°30'30"	99°40'55"	Edwards-Trinity Plateau	--	-3.6	13.0	7	
67	30°34'55"	99°34'19"	Edwards-Trinity Plateau	Ellenburger-San Saba	-2.3	15.0	20	
67	30°40'56"	99°23'53"	--	Ellenburger-San Saba	1.6	8.0	35	
67	30°38'53"	99°15'07"	--	--	-4.9	11.0	43	
67	30°39'41"	99°06'18"	--	--	7.4	10.0	54	
67	30°42'11"	98°57'25"	--	--	5.5	9.5	64	
67	30°43'50"	98°48'01"	--	--	5.6	8.5	73.5	
67	30°45'05"	98°40'06"	--	--	9.3	1.0	82	
67	30°45'03"	98°39'53"	--	--	0	9.0	83	
67	30°45'56"	98°32'49"	--	--	-7.0	14.0	92	
68	30°29'31"	99°45'20"	Edwards-Trinity Plateau	--	3.3	.2	0	6.8 mi below Junction

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
68	30°29'34"	99°45'14"	Edwards-Trinity Plateau	--	0	2.8	0.2	
68	30°29'45"	99°43'19"	Edwards-Trinity Plateau	--	-2.2	3.8	3	
68	30°30'28"	99°40'55"	Edwards-Trinity Plateau	--	-4.0	8.2	6.8	
68	30°33'10"	99°36'02"	Edwards-Trinity Plateau	Ellenburger-San Saba	6.3	22.0	15	
68	30°41'14"	99°21'25"	--	Ellenburger-San Saba	-3.8	7.0	37	
68	30°38'57"	99°14'48"	--	--	4.0	10.2	44	
68	30°39'41"	99°06'18"	--	--	-7	10.7	54.2	
68	30°42'34"	98°58'40"	--	--	4.0	4.8	64.9	
68	30°42'20"	98°55'40"	--	--	-8.0	5.0	69.7	Castell gaging station (08151000)
68	30°42'58"	98°50'51"	--	--	5.0	7.6	74.7	
68	30°45'00"	98°42'42"	--	--	-1.0	.7	82.3	
68	30°45'10"	98°40'30"	--	--	-3.1	10.0	83	
68	30°46'07"	98°33'05"	--	--	4.9	1.2	93	
68	30°44'38"	98°32'58"	--	--	-1.0	4.5	94.2	
68	30°42'06"	98°29'39"	--	--	2.0	6.3	98.7	
69	31°26'43"	101°08'09"	--	--	-1	6.8	0	mouth of Kiowa Creek
69	31°24'34"	101°03'57"	--	--	0	1.0	6.8	
69	31°24'27"	101°03'03"	--	--	.3	.7	7.8	
69	31°24'23"	100°02'24"	--	--	-3	3.1	8.5	
69	31°23'07"	101°00'46"	--	--	.9	1.5	11.6	
69	31°22'21"	101°00'00"	--	--	.1	10.6	13.1	
69	31°25'06"	100°47'34"	--	--	-5	6.0	23.7	
69	31°25'15"	100°43'08"	--	--	-1.1	6.8	29.7	
69	31°24'40"	100°37'44"	--	--	-1	1.7	36.5	
69	31°23'50"	100°37'01"	--	--	2.1	7.0	38.2	
69	31°22'04"	100°33'54"	--	--	5.2	.5	45.2	
69	31°20'42"	100°32'49"	--	--	-7.3	2.0	45.7	
70	31°24'05"	100°50'34"	--	--	3.9	22.0	0	at San Angelo - Mertzon Rd crossing
71	31°52'14"	100°04'12"	--	--	1.0	.75	0	at McIntyres Dam - 13 mi above Sterling, estimate
71	31°52'04"	100°04'12"	--	--	1.4	2.25	.75	
71	31°51'03"	100°03'21"	--	--	-2	1.0	3	
71	31°50'27"	100°02'56"	--	--	.3	.5	4	
71	31°50'24"	100°02'42"	--	--	-2	2.0	4.5	
71	31°50'02"	100°01'22"	--	--	1.9	1.0	6.5	
71	31°50'01"	100°00'32"	--	--	.2	1.5	7.5	estimate
71	31°50'03"	100°01'15"	--	--	.6	.5	9	
71	31°50'03"	100°01'01"	--	--	0	1.5	9.5	estimate
71	31°49'59"	100°00'36"	--	--	-1	2.0	11	estimate

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
71	31°50'06"	100°00'14"	--	--	-0.1	1.0	13	
71	31°49'47"	100°59'31"	--	--	0	6.0	14	
71	31°47'52"	100°56'13"	--	--	0	3.0	20	
71	31°46'51"	100°54'32"	--	--	.3	1.0	23	
71	31°46'31"	100°53'56"	--	--	-.3	8.0	24	
71	31°43'59"	100°50'06"	--	--	0	7.0	32	
71	31°42'13"	100°48'18"	--	--	.9	5.0	39	
71	31°40'01"	100°45'10"	--	--	.9	1.0	44	
71	31°39'37"	100°44'13"	--	--	.9	.5	45	
71	31°39'31"	100°43'51"	--	--	-1.0	6.0	45.5	
71	31°36'59"	100°40'26"	--	--	-.1	4.5	51.5	
71	31°35'42"	100°38'49"	--	--	0	.5	56	
71	31°35'32"	100°38'27"	--	--	-.2	4.0	56.5	
71	31°34'00"	100°36'14"	--	--	-1.3	4.5	60.5	
71	31°32'30"	100°33'14"	--	--	.2	1.0	65	
71	31°32'17"	100°32'42"	--	--	-.1	5.0	66	estimate
71	31°29'42"	100°29'38"	--	Lipan	.1	6.0	71	estimate
71	31°27'56"	100°26'49"	--	Lipan	0	1.0	77	
72	31°53'18"	100°04'51"	--	--	.2	2.0	0	2 mi above McIntyres Dam
72	31°52'14"	100°04'12"	--	--	1.0	1.5	2	estimate
72	31°51'31"	100°03'14"	--	--	.2	8.1	3.5	
72	31°49'59"	100°59'38"	--	--	0	.5	11.6	
72	31°49'44"	100°59'24"	--	--	-.4	11.4	12.1	
72	31°46'03"	100°52'22"	--	--	.9	3.4	23.5	
72	31°44'33"	100°50'20"	--	--	1.3	4.4	26.9	
72	31°39'53"	100°45'03"	--	--	.7	5.7	31.3	
72	31°35'33"	100°38'09"	--	--	-.8	8.6	37	
72	31°32'25"	100°32'52"	--	Lipan	-.6	8.8	45.6	
72	31°27'57"	100°26'49"	--	Lipan	-.2	.9	54.4	gaging station (08133500)
73	31°49'41"	100°58'37"	--	--	-.1	3.0	0	at Sterling City
73	31°48'30"	100°57'07"	--	--	-1.0	6.0	3	estimate
73	31°46'17"	100°53'20"	--	--	1.3	11.0	9	
73	31°39'37"	100°43'04"	--	--	.7	7.0	20	
73	31°35'57"	100°39'03"	--	--	-2.0	3.0	27	estimate
73	31°34'54"	100°37'04"	--	Lipan	0	18.0	30	
74	30°27'30"	100°11'20"	Edwards-Trinity Plateau	--	12.7	2.1	0	at road crossing 10.2 mi above Roosevelt
74	30°28'33"	100°09'50"	Edwards-Trinity Plateau	--	2.8	8.1	2.1	
74	30°29'29"	100°03'03"	Edwards-Trinity Plateau	--	-.2	1.9	10.2	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
74	30°29'00"	100°01'51"	Edwards-Trinity Plateau	--	0.2	3.9	12.1	
74	30°29'23"	99°58'39"	Edwards-Trinity Plateau	--	-.3	.7	16	
74	30°29'25"	99°57'52"	Edwards-Trinity Plateau	--	0	4.3	16.7	
74	30°30'07"	99°54'15"	Edwards-Trinity Plateau	--	.9	4.0	21	
74	30°30'52"	99°52'03"	Edwards-Trinity Plateau	--	-.5	2.3	25	
74	30°31'05"	99°48'42"	Edwards-Trinity Plateau	--	-8.7	4.5	27.3	
75	30°09'38"	98°05'27"	Trinity	--	33.0	10.0	0	at FM 12, estimate
75	30°07'39"	98°00'36"	Trinity	--	2.2	4.0	10	
75	30°05'00"	98°00'25"	Edwards, Trinity	--	2.9	6.0	14	
75	30°03'06"	97°57'36"	Edwards	--	-6.7	5.6	20	
75	30°04'11"	97°53'10"	Edwards	--	-3.0	3.4	25.6	
75	30°05'07"	97°50'53"	--	--	13.6	12.1	29	
75	30°09'32"	97°46'07"	--	--	14.5	14.0	41.1	
75	30°11'19"	97°37'09"	--	--	-81.4	4.1	55.1	
76	30°04'59"	98°00'28"	Trinity	--	7.6	1.8	46	at FM 150
76	30°05'15"	97°59'06"	Edwards, Trinity	--	-5.8	1.5	44.2	
76	30°04'37"	97°58'43"	Edwards	--	-2.0	1.4	42.7	
76	30°03'37"	97°58'39"	Edwards	--	-1.0	1.4	41.3	
76	30°03'06"	97°57'34"	Edwards	--	-34.5	1.4	39.9	
76	30°03'00"	97°56'15"	Edwards	--	-21.3	1.1	38.5	
76	30°03'41"	97°55'34"	Edwards	--	-35.7	3.4	37.4	
76	30°04'12"	97°53'09"	Edwards	--	.06	1.3	34	
76	30°04'24"	97°52'07"	--	--	.97	1.2	32.7	
76	30°04'35"	97°51'05"	--	--	.29	.7	31.5	
76	30°05'08"	97°50'51"	--	--	3.5	7.1	30.8	
76	30°08'06"	97°47'51"	--	--	5.9	7.8	23.7	
76	30°10'40"	97°44'40"	--	--	-72	5.3	15.9	
77	30°17'04"	99°13'41"	Edwards-Trinity Plateau	--	.3	.5	0	2 mi below Harper
77	30°16'43"	99°13'24"	Edwards-Trinity Plateau, Trinity	--	0	1.8	.5	
77	30°15'56"	99°12'00"	Trinity	--	0	1.7	2.3	
77	30°15'54"	99°10'28"	Trinity	--	-.05	1.7	4	
77	30°14'59"	99°10'00"	Trinity	--	-.55	2.6	5.7	
77	30°14'29"	99°07'59"	Trinity	--	.2	.9	8.3	
77	30°14'24"	99°07'14"	Trinity	--	-.1	2.2	9.2	
77	30°14'15"	99°06'04"	Trinity	--	-.1	1.9	11.4	
77	30°14'27"	99°04'43"	Trinity	--	0	1.4	13.3	
77	30°13'54"	99°03'37"	Trinity	--	0	1.8	14.7	
77	30°13'24"	99°02'18"	Trinity	--	.05	1.5	16.5	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
77	30°12'52"	99°01'19"	Trinity	--	0.05	1.5	18	
77	30°12'33"	99°00'17"	Trinity	--	.3	1.1	19.5	
77	30°12'32"	98°59'26"	Trinity	--	.7	.8	20.6	
77	30°12'26"	98°58'45"	Trinity	--	-.1	.1	21.4	
77	30°12'21"	98°58'41"	Trinity	--	.2	2.0	21.5	
77	30°12'29"	98°57'00"	Trinity	--	.08	1.6	23.5	
77	30°13'28"	98°55'49"	Trinity	--	.29	.9	25.1	
77	30°13'14"	98°55'09"	Trinity	--	-.06	1.1	26	
77	30°13'21"	98°54'20"	Trinity	--	.14	1.7	27.1	
77	30°13'11"	98°52'33"	Trinity	--	-.24	2.2	28.8	
77	30°13'23"	98°51'18"	Trinity	--	-.09	1.3	31	
77	30°13'07"	98°49'45"	Trinity	--	-.06	2.1	32.3	
77	30°13'28"	98°49'04"	Trinity	--	.41	2.2	34.4	
77	30°13'28"	98°49'04"	Trinity	--	.05	1.8	36.6	
77	30°13'52"	98°48'24"	Trinity	--	1.6	1.6	38.4	
77	30°13'46"	98°44'57"	Trinity	--	1.16	1.5	40	
77	30°13'48"	98°43'56"	Trinity	--	-.05	3.1	41.5	
77	30°13'43"	98°42'09"	Trinity	--	-.27	2.1	44.6	
77	30°13'55"	98°41'16"	Trinity	--	1.13	2.1	46.7	
77	30°14'31"	98°39'17"	Trinity	--	-.86	1.2	48.8	
77	30°14'16"	98°37'13"	Trinity	--	1.4	2.2	50	
77	30°15'43"	98°34'32"	--	--	-.12	4.3	52.2	
77	30°16'19"	98°32'58"	--	--	-.45	1.7	56.5	
77	30°16'06"	98°31'34"	--	--	-.32	1.6	58.2	
77	30°16'10"	98°31'13"	--	--	-.03	2.2	59.8	
77	30°18'11"	98°30'24"	--	--	.51	1.3	62	
77	30°19'10"	98°29'20"	--	Ellenburger-San Saba	-.36	6.7	63.3	
78	30°17'04"	99°13'41"	Edwards-Trinity Plateau	--	.5	.5	0	2 mi below Harper
78	30°16'43"	99°13'23"	Edwards-Trinity Plateau, Trinity	--	.62	1.9	.5	
78	30°15'56"	99°12'00"	Trinity	--	-.28	2.8	2.4	
78	30°15'27"	99°10'06"	Trinity	--	.61	3.1	5.2	
78	30°14'29"	99°07'59"	Trinity	--	-.22	2.1	8.3	
78	30°14'48"	99°06'25"	Trinity	--	-.18	3.9	10.4	
78	30°14'05"	99°03'52"	Trinity	--	-.59	3.7	14.3	
79	30°14'05"	99°03'52"	Trinity	--	.36	3.7	14.3	county road crossing
79	30°14'05"	99°03'52"	Trinity	--	-.37	2.6	18	
79	30°12'32"	98°59'27"	Trinity	--	.39	2.4	20.6	1 mi above SH 16
79	30°12'28"	98°57'22"	Trinity	--	1.23	4.7	23	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
79	30°13'07"	98°53'47"	Trinity	--	0.12	3.7	27.7	
79	30°13'24"	98°50'26"	Trinity	--	-.51	3.0	31.4	
79	30°13'37"	98°49'05"	Trinity	--	1.52	4.0	34.4	US 290
79	30°14'17"	98°47'01"	Trinity	--	.72	4.7	38.4	
79	30°14'04"	98°45'21"	Trinity	--	2.68	2.6	43.1	
79	30°14'03"	98°41'29"	Trinity	--	2.3	3.7	45.7	
79	30°14'22"	98°39'07"	Trinity	--	-.9	3.8	49.4	
79	30°14'42"	98°35'43"	Trinity	--	.7	3.8	53.2	
79	30°16'19"	98°32'42"	--	--	-1.17	3.0	57	FM 1320
79	30°17'05"	98°30'04"	--	--	.42	3.1	60	
79	30°19'13"	98°29'25"	--	--	-1.4	2.1	63.1	
79	30°19'24"	98°27'52"	--	Ellenburger-San Saba	.3	2.6	65.2	
79	30°18'16"	98°25'18"	--	Ellenburger-San Saba	-1.87	2.2	67.8	
79	30°17'27"	98°24'00"	Trinity	Ellenburger-San Saba	.3	3.7	70	gaging station (08153500)
79	30°17'54"	98°21'46"	Trinity	Ellenburger-San Saba	1.3	9.4	73.7	
79	30°18'10"	98°18'34"	Trinity	Ellenburger-San Saba, Marble Falls	4.15	7.6	83.1	
79	30°18'42"	98°14'13"	Trinity	--	1.2	5.8	90.7	
79	30°20'12"	98°11'45"	Trinity	--	.84	6.5	96.5	
80	30°49'57"	100°06'50"	Edwards-Trinity Plateau	--	2.5	1.0	0	0.5 mi above Fort McKavett
80	30°50'03"	100°05'34"	Edwards-Trinity Plateau	--	.5	7.0	1	
80	30°52'13"	100°00'10"	Edwards-Trinity Plateau	--	-.3	5.5	8	
80	30°54'00"	99°54'43"	Edwards-Trinity Plateau	--	-.7	3.5	13.5	
80	30°54'27"	99°52'03"	Edwards-Trinity Plateau	--	-1.6	4.0	17	
80	30°55'07"	99°47'06"	Edwards-Trinity Plateau	--	1.1	5.0	21	
80	30°55'12"	99°43'20"	Edwards-Trinity Plateau	--	-4.0	5.0	26	
80	30°53'24"	99°41'22"	Edwards-Trinity Plateau	--	-2.6	4.0	31	
80	30°52'35"	99°39'11"	Edwards-Trinity Plateau	--	-3.1	6.0	35	
80	30°52'47"	99°35'31"	--	Ellenburger-San Saba	-.8	9.0	41	
80	30°55'01"	99°27'20"	--	Ellenburger-San Saba	.1	10.0	50	
80	31°00'06"	99°15'13"	--	--	.6	4.0	60	
80	31°00'53"	99°11'54"	--	Hickory	-.1	5.0	64	
80	31°02'01"	99°08'11"	--	Ellenburger-San Saba, Hickory	-.9	3.0	69	
80	31°03'27"	99°05'10"	--	Ellenburger-San Saba	-1.3	1.0	72	
80	31°02'56"	99°03'55"	--	Ellenburger-San Saba, Marble Falls	18.3	7.0	73	
80	31°07'38"	98°59'13"	--	Marble Falls	0	.1	80	
81	30°50'03"	100°05'34"	Edwards-Trinity Plateau	--	-3.0	5.7	1	at first McKavett - Menard crossing

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
81	30°52'02"	100°01'15"	Edwards-Trinity Plateau	--	4.6	6.0	6.7	
81	30°54'04"	99°55'02"	Edwards-Trinity Plateau	--	-2	2.7	12.7	
81	30°54'37"	99°51'34"	Edwards-Trinity Plateau	--	-1.8	1.6	15.4	
81	30°55'27"	99°50'43"	Edwards-Trinity Plateau	--	4.4	4.9	17	
82	31°12'06"	98°52'52"	--	--	-9	14.0	0	damsite at Dorans Ranch 20 mi above San Saba
83	30°50'10"	100°04'55"	Edwards-Trinity Plateau	--	5.7	13.8	0	1 mi below Fort McKavett Springs
83	30°53'56"	99°54'36"	Edwards-Trinity Plateau	--	2.0	7.2	13.8	
83	30°55'07"	99°47'06"	Edwards-Trinity Plateau	--	16.0	20.0	21	
83	30°52'47"	99°35'31"	--	Ellenburger-San Saba	-2.9	15.0	41	
83	30°55'13"	99°26'49"	--	Ellenburger-San Saba, Marble Falls	6.9	20.0	56	
83	31°07'38"	98°59'13"	--	Marble Falls	-2.6	5.0	76	
83	31°09'22"	98°55'26"	--	Marble Falls	1.0	14.0	81	
83	31°12'46"	98°43'05"	--	--	2.0	2.6	95	
83	31°12'05"	98°42'44"	--	--	0	1.2	97.6	
83	31°12'10"	98°41'44"	--	--	-30.6	6.2	98.8	
84	30°12'32"	97°54'10"	Edwards, Trinity	--	-47.3	5.2	12.9	at FM 1826
84	30°10'08"	97°51'32"	Edwards	--	-3.9	.9	7.7	
84	30°10'03"	97°50'51"	--	--	-7.7	.3	6.8	
84	30°09'48"	97°50'40"	--	--	-2.73	.2	6.5	
84	30°09'42"	97°50'33"	--	--	0	.8	6.3	
85	30°12'32"	97°54'10"	Edwards, Trinity	--	-1.7	1.5	12.9	at FM 1826
85	30°11'53"	97°52'53"	Edwards	--	-5.56	1.3	11.4	
85	30°11'34"	97°51'55"	Edwards	--	-2.18	.2	10.1	
85	30°11'24"	97°51'54"	Edwards	--	-2.36	.2	9.9	
85	30°11'24"	97°51'43"	Edwards	--	0	1.2	9.7	
85	30°10'32"	97°51'29"	Edwards	--	0	.8	8.5	
85	30°10'08"	97°51'32"	Edwards	--	0	.9	7.7	
85	30°10'03"	97°50'51"	--	--	.02	1.3	6.8	
85	30°09'42"	97°49'54"	--	--	1.33	1.4	5.5	
86	31°07'38"	100°29'49"	Edwards-Trinity Plateau	--	16.5	5.0	0	at Main Springs - 5 mi above Christoval, site now inundated by Lake Nasworthy
86	31°11'13"	100°29'56"	Edwards-Trinity Plateau	--	4.6	9.4	5	site now inundated by Lake Nasworthy
86	31°20'21"	100°28'37"	--	Lipan	-1.3	6.4	14.4	site now inundated by Lake Nasworthy
86	31°23'59"	100°26'34"	--	Lipan	-2	4.0	20.8	site now inundated by Lake Nasworthy
87	31°20'12"	100°28'48"	--	--	2.2	1.0	11.8	just above Middle Concho River, site now inundated by Lake Nasworthy

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
88	31°11'13"	100°30'00"	Edwards-Trinity Plateau	--	2.6	11.8	0	300 ft below Christoval Canal, site now inundated by Lake Nasworthy
88	31°22'29"	100°28'51"	--	--	10.6	.7	11.8	site now inundated by Lake Nasworthy
88	31°22'50"	100°29'24"	--	Lipan	-5.8	3.0	12.5	site now inundated by Lake Nasworthy
88	31°24'02"	100°26'38"	--	Lipan	.4	1.0	15.5	site now inundated by Lake Nasworthy
88	31°24'27"	100°26'52"	--	Lipan	2.7	2.8	16.5	site now inundated by Lake Nasworthy
88	31°26'05"	100°25'40"	--	Lipan	2.8	.5	19.3	site now inundated by Lake Nasworthy
89	31°09'49"	100°30'07"	Edwards-Trinity Plateau	--	-1.52	2.0	0	2.1 mi south of Christoval
89	31°11'14"	100°30'03"	Edwards-Trinity Plateau	--	.27	2.8	2	
89	31°13'20"	100°30'10"	--	--	-1.47	4.2	4.8	
89	31°16'29"	100°30'14"	--	--	-1.92	3.0	9	
90	30°18'38"	99°54'34"	Edwards-Trinity Plateau	--	2.3	18.5	.5	0.5 mi below Paint Creek
91	30°14'14"	99°58'15"	Edwards-Trinity Plateau	--	1.5	1.7	0	just below confluence of West and South Forks, estimate
91	30°15'13"	99°57'10"	Edwards-Trinity Plateau	--	4.8	1.0	1.7	estimate
91	30°15'46"	99°55'59"	Edwards-Trinity Plateau	--	16.9	1.1	2.7	
91	30°16'19"	99°55'13"	Edwards-Trinity Plateau	--	.1	2.9	3.8	
91	30°18'14"	99°54'16"	Edwards-Trinity Plateau	--	-1.4	.3	6.7	
91	30°18'27"	99°54'27"	Edwards-Trinity Plateau	--	-1.4	1.6	7	
91	30°19'36"	99°54'09"	Edwards-Trinity Plateau	--	5.9	7.8	8.6	
91	30°24'18"	99°50'27"	Edwards-Trinity Plateau	--	.3	9.5	16.4	
92	31°13'24"	100°48'50"	Edwards-Trinity Plateau	--	11.5	.1	0	just below Seven Springs, estimate
92	31°13'26"	100°48'46"	Edwards-Trinity Plateau	--	1.0	2.9	.1	
92	31°15'33"	100°48'36"	Edwards-Trinity Plateau	--	4.8	3.7	3	
92	31°18'06"	100°47'09"	--	--	.5	3.9	6.7	
92	31°19'37"	100°44'42"	--	--	-3.6	3.7	10.6	
92	31°20'15"	100°41'34"	--	--	.4	2.2	14.3	
92	31°20'26"	100°39'36"	--	--	-4.8	1.2	16.5	
92	31°19'55"	100°38'31"	--	--	.8	1.0	17.7	
92	31°19'42"	100°37'37"	--	--	10.6	1.2	18.7	
92	31°19'45"	100°36'25"	--	--	2.2	2.8	19.9	
92	31°20'00"	100°34'01"	--	--	2.2	3.8	22.7	
93	31°13'24"	100°48'50"	Edwards-Trinity Plateau	--	8.0	.1	0	just above Seven Springs
93	31°13'26"	100°48'46"	Edwards-Trinity Plateau	--	-6	2.9	.1	
93	31°15'53"	100°48'36"	Edwards-Trinity Plateau	--	0	.4	3	
93	31°16'09"	100°48'36"	Edwards-Trinity Plateau	--	.3	3.6	3.4	estimate
93	31°18'23"	100°46'48"	--	--	1.1	4.0	7	estimate
93	31°19'37"	100°44'42"	--	--	1.1	5.0	11	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
93	31°20'16"	100°40'37"	--	--	0.2	4.0	16	
93	31°19'51"	100°36'03"	--	--	.4	5.0	20	
93	31°19'52"	100°34'30"	--	--	0	2.0	25	estimate
94	30°14'06"	97°51'36"	--	--	-8.2	3.7	14	0.8 mi east of intersection of US 290 and SH 71
94	30°13'10"	97°48'47"	--	--	-3.5	.5	10.3	
94	30°13'17"	97°48'18"	--	--	-.9	.4	9.8	
94	30°13'23"	97°47'52"	--	--	.37	.8	9.4	
95	30°14'12"	97°52'25"	Trinity	--	3.35	.8	14.8	1,300 ft above Old Oak Hill - Bee Cave Rd
95	30°14'06"	97°51'36"	Edwards	--	-4.07	.5	14	
95	30°13'45"	97°51'11"	Edwards	--	-1.27	.9	13.5	
95	30°13'30"	97°50'35"	Edwards	--	-3.6	.8	12.6	
95	30°13'26"	97°49'59"	Edwards	--	-.49	.6	11.8	
95	30°13'22"	97°49'26"	Edwards	--	-1.87	1.0	11.2	
95	30°12'55"	97°48'58"	--	--	.83	.1	10.2	
95	30°13'10"	97°48'47"	--	--	-.83	.5	10.3	
95	30°13'17"	97°48'18"	--	--	6.4	.4	9.8	
95	30°13'23"	97°47'52"	--	--	-5.78	.8	9.4	
95	30°13'15"	97°47'35"	--	--	-.13	.5	8.6	
95	30°12'59"	97°47'18"	--	--	-.15	.7	8.1	
95	30°12'42"	97°46'44"	--	--	2.73	6.1	7.4	
96	30°10'26"	99°00'41"	Trinity	--	.37	2.3	12.1	12.1 mi above mouth
96	30°10'40"	99°00'11"	Trinity	--	-.01	1.5	9.8	
96	30°11'02"	98°59'46"	Trinity	--	1.64	4.7	8.3	
96	30°11'57"	98°59'08"	Trinity	--	-.1	3.6	3.6	
97	29°59'39"	98°11'45"	Trinity	--	-.2	11.3	16.3	at Fishers Store road crossing
97	29°59'36"	98°05'18"	Edwards, Trinity	--	.3	11.0	27.6	gaging station at Wimberley (08171000)
97	30°00'24"	97°57'24"	Edwards	--	-10.1	1.8	38.6	
97	30°00'09"	97°55'57"	Edwards	--	-.3	.1	40.4	
97	30°00'08"	97°55'57"	Edwards	--	0	9.1	40.5	
98	30°05'56"	98°20'29"	Trinity	--	-1.51	5.3	0	at east crossing of Chimney Valley Rd
98	30°03'53"	98°18'36"	Trinity	--	0	1.6	5.3	
98	30°03'04"	98°18'46"	Trinity	--	0	2.7	6.9	
98	30°02'37"	98°14'59"	Trinity	--	0	1.1	9.6	
98	30°03'03"	98°14'03"	Trinity	--	-.94	.7	10.7	
98	30°02'40"	98°13'42"	Trinity	--	.08	.8	11.4	
98	30°01'56"	98°13'15"	Trinity	--	4.08	.2	12.2	
98	30°01'49"	98°13'07"	Trinity	--	2.92	.9	12.4	
98	30°01'24"	98°13'04"	Trinity	--	-1.46	.1	13.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
98	30°01'16"	98°13'10"	Trinity	--	-2.44	0.2	13.4	
98	30°01'09"	98°13'07"	Trinity	--	.47	.3	13.6	
98	30°01'00"	98°13'08"	Trinity	--	-.34	.3	13.9	
98	30°00'53"	98°12'55"	Trinity	--	.02	.6	14.2	
98	30°00'51"	98°12'24"	Trinity	--	13.94	.6	14.8	
98	30°00'21"	98°12'18"	Trinity	--	.49	3.1	15.4	
98	29°58'28"	98°11'58"	Trinity	--	-1.4	1.9	18.5	
98	29°57'18"	98°10'07"	Trinity	--	3.0	2.8	20.4	
98	29°58'07"	98°08'07"	Trinity	--	2.7	1.6	23.2	
98	29°58'34"	98°06'51"	Trinity	--	6.29	2.3	24.8	
99	30°00'23"	97°57'23"	Edwards	--	-4.6	2.0	11.4	1 mi above Halifax Creek
99	30°00'20"	97°56'03"	Edwards	--	-8.5	2.2	13.4	0.75 mi below Halifax Creek
100	30°05'56"	98°20'29"	Trinity	--	0	4.8	0	at east crossing of Chimney Valley Rd
100	30°03'54"	98°18'20"	Trinity	--	0	3.3	4.8	
100	30°03'05"	98°17'32"	Trinity	--	0	.9	8.1	
100	30°03'18"	98°16'49"	Trinity	--	0	.5	9	
100	30°03'09"	98°16'10"	Trinity	--	-.1	.2	9.5	
100	30°02'43"	98°14'56"	Trinity	--	0	2.8	9.7	
100	30°01'54"	98°13'12"	Trinity	--	0	1.1	12.5	
100	30°01'37"	98°12'46"	Trinity	--	2.68	.1	13.6	
100	30°01'21"	98°13'11"	Trinity	--	-2.32	.2	13.7	
100	30°01'09"	98°13'07"	Trinity	--	-.34	.2	13.9	
100	30°00'55"	98°13'08"	Trinity	--	.09	.2	14.1	
100	30°00'57"	98°12'49"	Trinity	--	-.11	.6	14.3	
100	30°00'45"	98°12'19"	Trinity	--	7.5	1.4	14.9	
100	29°59'39"	98°11'45"	Trinity	--	-.25	1.9	16.3	
100	29°58'31"	98°12'05"	Trinity	--	.05	2.2	18.2	
100	29°57'26"	98°10'17"	Trinity	--	-.17	2.8	20.4	
100	29°58'02"	98°08'20"	Trinity	--	.71	2.1	23.2	
100	29°58'55"	98°06'54"	Trinity	--	.11	2.3	25.3	
100	29°59'36"	98°05'18"	Trinity	--	.5	2.5	27.6	gaging station at Wimberley (08171000)
100	29°59'07"	98°03'56"	Trinity	--	.1	2.6	30.1	
100	29°59'01"	98°03'09"	Trinity	--	-.5	2.2	32.7	
100	29°58'47"	98°01'44"	Edwards, Trinity	--	0	3.7	34.9	
100	30°00'24"	97°57'24"	Edwards	--	-9.24	1.3	38.6	
100	30°00'33"	97°56'09"	Edwards	--	-1.22	.5	39.9	
100	30°00'09"	97°55'57"	Edwards	--	-.14	.5	40.4	
100	29°59'39"	97°55'42"	--	--	0	1.0	40.9	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
100	29°59'20"	97°55'20"	--	--	0	4.0	41.9	
100	29°58'57"	97°55'03"	--	--	0	1.7	45.9	
100	29°58'27"	97°55'08"	--	--	0	2.0	47.6	
101	29°59'36"	98°05'16"	Trinity	--	5.0	2.6	.5	gaging station at Wimberley (08171000)
101	29°59'00"	98°03'09"	Trinity	--	1.6	2.6	3.1	
101	29°59'04"	98°01'20"	Trinity	--	-.1	2.2	5.7	
101	29°59'50"	98°00'02"	Edwards, Trinity	--	-4.8	3.7	7.9	
101	30°00'15"	97°57'19"	Edwards	--	-6.7	1.3	11.6	
101	30°00'33"	97°56'09"	Edwards	--	-8.9	3.8	12.9	
102	29°59'37"	98°05'15"	Edwards, Trinity	--	29.0	11.4	0	road crossing at Wimberley
102	30°00'23"	97°57'23"	Edwards	--	-15.0	8.0	11.4	
103	29°59'37"	98°05'15"	Trinity	--	-1.5	3.7	0	at Falls about 1 mi above Halifax Creek
103	29°59'06"	98°02'20"	Edwards, Trinity	--	4.5	7.7	3.7	
103	30°00'23"	97°57'23"	Edwards	--	-15.8	8.0	11.4	
104	29°33'02"	98°16'22"	--	--	1.56	10.0	0	at FM 78 at Schertz
104	29°30'16"	98°11'21"	Carrizo-Wilcox	--	.23	19.0	10	
104	29°22'11"	98°06'52"	Carrizo-Wilcox	--	2.11	4.6	29	
104	29°19'17"	98°04'30"	Carrizo-Wilcox	--	6.85	2.4	33.6	
104	29°17'19"	98°03'36"	--	--	.8	2.0	36	
104	29°16'30"	98°02'22"	--	--	2.4	24.0	38	
105	30°02'39"	99°00'21"	Trinity	--	2.51	.5	10.4	at bridge on FM 1341
105	30°02'22"	99°00'06"	Trinity	--	.31	5.5	9.9	
105	30°01'00"	98°58'35"	Trinity	--	.53	4.0	4.4	
106	29°41'47"	98°06'24"	Trinity	--	60.0	1.8	8.2	
106	29°40'58"	98°05'25"	Trinity	--	3.5	14.7	10	at cave about 2.5 mi below gaging station (08167500)
107	29°48'30"	98°10'23"	Trinity	--	-4.41	.2	.1	below outlet pipe at Canyon Dam
107	29°48'15"	98°10'24"	Trinity	--	17.99	1.3	.3	
107	29°48'23"	98°09'29"	Trinity	--	-23.0	.3	1.6	
107	29°48'22"	98°09'10"	Trinity	--	19.0	1.0	1.9	
107	29°47'44"	98°08'54"	Trinity	--	-20.15	.7	2.9	
108	29°48'30"	98°10'23"	Trinity	--	.13	.2	.1	below outlet pipe at Canyon Dam
108	29°48'15"	98°10'24"	Trinity	--	.48	1.3	.3	
108	29°48'23"	98°09'29"	Trinity	--	1.6	1.3	1.6	
108	29°47'44"	98°08'54"	Trinity	--	-1.91	.7	2.9	
109	29°48'30"	98°10'23"	Trinity	--	-.64	.2	.1	below outlet pipe at Canyon Dam
109	29°48'15"	98°10'24"	Trinity	--	2.68	1.3	.3	
109	29°48'23"	98°09'29"	Trinity	--	-2.4	1.3	1.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
109	29°47'44"	98°08'54"	Trinity	--	3.17	0.7	2.9	
110	29°57'12"	98°55'08"	Trinity	--	4.8	6.4	0	2 mi above Comfort gaging station (08167000)
110	29°58'10"	98°51'45"	Trinity	--	.1	5.8	6.4	
110	29°57'17"	98°48'03"	Trinity	--	4.7	7.5	12.2	
110	29°57'24"	98°42'58"	Trinity	--	4.8	11.5	19.7	
110	29°53'39"	98°40'14"	Trinity	--	-2.6	14.4	31.2	
110	29°53'30"	98°33'31"	Trinity	--	1.0	11.9	45.6	
110	29°52'48"	98°26'52"	Trinity	--	.1	4.2	57.5	
110	29°51'36"	98°24'45"	Trinity	--	-5.1	16.8	61.7	
110	29°54'15"	98°16'51"	Trinity	--	16.6	14.2	78.5	
110	29°52'22"	98°11'43"	Trinity	--	-5.7	4.7	92.7	
110	29°48'45"	98°10'47"	Edwards, Trinity	--	-1.6	6.5	97.4	
110	29°45'47"	98°08'22"	Edwards	--	-3.9	4.8	103.9	
111	29°57'12"	98°55'08"	Trinity	--	1.2	6.4	0	2 mi above Comfort gaging station (08167000)
111	29°58'10"	98°51'45"	Trinity	--	-6.1	5.8	6.4	
111	29°57'17"	98°48'03"	Trinity	--	7.9	7.5	12.2	
111	29°57'24"	98°42'58"	Trinity	--	-4.5	11.5	19.7	
111	29°53'39"	98°40'16"	Trinity	--	-2.8	3.0	31.2	
111	29°54'02"	98°37'24"	Trinity	--	4.8	11.4	34.2	
111	29°53'30"	98°33'31"	Trinity	--	3.7	11.9	45.6	
111	29°52'48"	98°26'52"	Trinity	--	-1.2	4.2	57.5	
111	29°51'36"	98°24'45"	Trinity	--	-13.1	11.6	61.7	
111	29°55'03"	98°19'40"	Trinity	--	2.0	5.2	73.3	
111	29°54'15"	98°16'52"	Trinity	--	9.6	7.7	78.5	
111	29°53'46"	98°13'49"	Trinity	--	-6	7.8	86.2	
111	29°52'17"	98°13'21"	Trinity	--	4.8	3.4	94	
111	29°48'45"	98°10'47"	Edwards, Trinity	--	9.2	6.7	97.4	
111	29°45'45"	98°08'21"	Edwards	--	-4.0	4.6	104.1	
112	30°04'17"	99°20'07"	Trinity	--	-6.5	.3	34	0.3 mi above confluence with South Fork Guadalupe River
112	30°02'31"	99°21'24"	Trinity	--	30.8	.3	33.7	
112	30°04'18"	99°19'48"	Trinity	--	-2.1	.2	33.4	
113	30°04'17"	99°20'07"	Trinity	--	4.3	.3	34	0.3 mi above confluence with South Fork Guadalupe River
113	30°04'08"	99°19'58"	Trinity	--	20.0	.3	33.7	
113	30°04'18"	99°19'48"	Trinity	--	1.8	.2	33.4	
113	30°04'08"	99°19'19"	Trinity	--	3.87	4.4	33.2	
113	30°04'13"	99°15'13"	Trinity	--	-41.7	.4	28.8	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
113	30°04'34"	99°14'50"	Trinity	--	48.84	3.4	28.4	
113	30°03'59"	99°11'27"	Trinity	--	-8.3	4.0	25	
113	30°01'50"	99°08'13"	Trinity	--	13.79	6.95	21	
113	29°57'22"	99°04'50"	Trinity	--	8.9	3.25	14.05	
113	29°56'46"	99°02'14"	Trinity	--	-12.05	6.6	10.8	
113	29°56'22"	98°56'52"	Trinity	--	7.97	4.2	4.2	
114	29°53'12"	98°27'10"	Trinity	--	-2.5	2.4	0	at county road crossing above US 281
114	29°52'05"	98°25'54"	Trinity	--	-3.9	.9	2.4	
114	29°51'54"	98°24'53"	Trinity	--	-1.6	1.4	3.3	
114	29°51'22"	98°23'49"	Trinity	--	4.5	1.0	4.7	
114	29°51'42"	98°22'51"	Trinity	--	-4.7	1.3	5.7	
114	29°51'53"	98°22'19"	Trinity	--	-16.3	3.0	7	
114	29°53'15"	98°22'04"	Trinity	--	-6.0	2.5	10	
114	29°53'13"	98°20'40"	Trinity	--	-8.8	2.6	12.5	
114	29°54'12"	98°19'54"	Trinity	--	-1.8	1.3	15.1	
114	29°54'48"	98°20'06"	Trinity	--	-2.2	1.6	16.4	
114	29°54'50"	98°19'05"	Trinity	--	1.9	2.5	18	
114	29°54'08"	98°18'39"	Trinity	--	-5.9	1.8	20.5	
114	29°53'32"	98°18'18"	Trinity	--	-2.2	2.2	22.3	
114	29°54'12"	98°17'48"	Trinity	--	0	.2	24.5	
114	29°54'18"	98°17'48"	Trinity	--	-1.1	2.5	24.7	
114	29°53'47"	98°16'11"	Trinity	--	3.9	1.8	27.2	
114	29°53'10"	98°14'58"	Trinity	--	3.3	1.4	29	
114	29°53'26"	98°13'45"	Trinity	--	2.8	1.9	30.4	
114	29°51'49"	98°13'04"	Trinity	--	-4.1	.6	32.3	
114	29°51'26"	98°12'43"	Trinity	--	4.0	1.4	32.9	
114	29°51'40"	98°12'00"	Trinity	--	-1.0	3.0	34.3	
114	29°52'08"	98°11'20"	Trinity	--	-2.9	.8	37.3	
114	29°51'31"	98°10'45"	Trinity	--	2.9	1.8	38.1	
114	29°52'03"	98°09'34"	Trinity	--	-2.7	1.8	39.9	
114	29°50'38"	98°09'47"	Trinity	--	-2.7	1.1	41.7	
114	29°49'57"	98°10'19"	Trinity	--	7.6	.9	42.8	
114	29°49'06"	98°10'23"	Trinity	--	-1.4	1.8	43.7	
114	29°48'06"	98°10'21"	Trinity	--	-.9	2.5	45.5	
114	29°47'40"	98°08'58"	Edwards, Trinity	--	-5.0	3.5	48	
114	29°45'51"	98°08'25"	Edwards	--	3.7	1.8	51.5	
114	29°45'10"	98°07'58"	Edwards	--	-3.5	1.8	53.3	
114	29°44'44"	98°06'38"	Edwards	--	2.9	1.9	55.1	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
115	29°53'12"	98°27'10"	Trinity	--	-1.6	5.7	0	at county road crossing above US 281
115	29°51'42"	98°22'51"	Trinity	--	-24.54	12.3	5.7	
115	29°54'02"	98°37'24"	Trinity	--	15.24	6.5	18	
115	29°54'12"	98°17'48"	Trinity	--	0	.2	24.5	
115	29°54'18"	98°17'48"	Trinity	--	2.9	4.3	24.7	
115	29°53'10"	98°14'58"	Trinity	--	7.8	3.3	29	
115	29°51'49"	98°13'04"	Trinity	--	-2.2	5.0	32.3	
115	29°52'02"	98°11'00"	Trinity	--	1.0	5.5	37.3	
115	29°49'57"	98°10'19"	Trinity	--	-1.8	.9	42.8	
115	29°49'06"	98°10'23"	Trinity	--	4.1	4.3	43.7	
115	29°47'40"	98°08'58"	Edwards, Trinity	--	-.8	3.5	48	
115	29°45'51"	98°08'25"	Edwards	--	-1.1	5.5	51.5	
116	29°53'12"	98°27'10"	Trinity	--	-2.7	5.7	0	at county road crossing above US 281
116	29°51'42"	98°22'51"	Trinity	--	-22.16	12.3	5.7	
116	29°54'02"	98°37'24"	Trinity	--	23.66	6.7	18	
116	29°54'18"	98°17'48"	Trinity	--	8.5	7.6	24.7	
116	29°51'49"	98°13'04"	Trinity	--	3.0	15.7	32.3	
116	29°47'40"	98°08'58"	Edwards, Trinity	--	-3.2	3.5	48	
116	29°45'51"	98°08'25"	Edwards	--	3.9	5.5	51.5	
117	29°54'22"	98°32'37"	Trinity	--	2.6	10.3	-10.3	300 ft below Bergheim-Kendalia Rd
117	29°53'12"	98°27'10"	Trinity	--	-3.4	5.7	0	at county road crossing above US 281
117	29°51'42"	98°22'51"	Trinity	--	-26.6	12.3	5.7	
117	29°54'02"	98°37'24"	Trinity	--	18.6	6.7	18	
117	29°54'18"	98°17'48"	Trinity	--	7.4	7.6	24.7	
117	29°51'49"	98°13'04"	Trinity	--	-.1	15.7	32.3	
117	29°47'40"	98°08'58"	Edwards, Trinity	--	-2.1	3.5	48	
117	29°45'51"	98°08'25"	Edwards	--	2.2	5.5	51.5	
118	29°53'12"	98°27'10"	Trinity	--	-3.5	5.7	0	at county road crossing above US 281
118	29°51'42"	98°22'51"	Trinity	--	-19.7	12.3	5.7	
118	29°54'02"	98°37'24"	Trinity	--	15.3	6.7	18	
118	29°54'18"	98°17'48"	Trinity	--	6.8	7.6	24.7	
118	29°51'49"	98°13'04"	Trinity	--	.3	15.7	32.3	
118	29°47'40"	98°08'58"	Edwards, Trinity	--	-.4	3.5	48	
118	29°45'51"	98°08'25"	Edwards	--	.9	5.5	51.5	
119	29°53'12"	98°27'10"	Trinity	--	-1.9	5.7	0	at county road crossing above US 281
119	29°51'42"	98°22'51"	Trinity	--	-8.2	12.3	5.7	
119	29°54'02"	98°37'24"	Trinity	--	6.29	6.7	18	
119	29°54'18"	98°17'48"	Trinity	--	5.91	7.6	24.7	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
119	29°51'49"	98°13'04"	Trinity	--	0.6	15.7	32.3	
119	29°47'40"	98°08'58"	Edwards, Trinity	--	-.8	3.5	48	
119	29°45'51"	98°08'25"	Edwards	--	-1.1	5.5	51.5	
120	29°53'12"	98°27'10"	Trinity	--	-381.0	.1	5.7	gaging station near Spring Branch (08167500)
120	29°53'12"	98°27'10"	Trinity	--	-44.0	4.2	5.8	
120	29°53'15"	98°22'04"	Trinity	--	-32.5	8.0	10	
120	29°54'02"	98°37'24"	Edwards, Trinity	--	-41.54	39.0	18	estimate (35-50).
121	29°53'12"	98°27'10"	Trinity	--	7.4	5.7	0	county road crossing 3.8 mi above bridge on US 281
121	29°51'42"	98°22'51"	Trinity	--	-26.0	12.3	5.7	
121	29°54'50"	98°19'05"	Trinity	--	4.2	6.7	18	
121	29°54'18"	98°17'48"	Trinity	--	5.4	4.3	24.7	
121	29°53'10"	98°14'58"	Trinity	--	11.8	3.3	29	
121	29°51'49"	98°13'04"	Trinity	--	6.0	5.0	32.3	
121	29°52'02"	98°11'00"	Trinity	--	-4.0	1.4	37.3	
121	29°51'29"	98°10'25"	Trinity	--	1.0	4.1	38.7	
121	29°49'57"	98°10'19"	Trinity	--	-1.0	5.2	42.8	
121	29°47'40"	98°08'58"	Edwards, Trinity	--	9.0	3.5	48	
121	29°45'51"	98°08'25"	Edwards	--	9.3	5.5	51.5	
122	29°53'12"	98°27'10"	Trinity	--	-4.3	2.4	0	at county road crossing above US 281
122	29°52'05"	98°25'54"	Trinity	--	-.6	.9	2.4	
122	30°03'18"	98°16'49"	Trinity	--	-4.7	1.4	3.3	
122	29°51'22"	98°23'49"	Trinity	--	2.2	1.0	4.7	
122	29°51'42"	98°22'51"	Trinity	--	-32.0	9.4	5.7	
123	30°11'25"	99°26'49"	Edwards-Trinity Plateau	--	.07	5.8	19.4	at Sproul Ranch road crossing
123	30°10'42"	99°22'42"	Edwards-Trinity Plateau, Trinity	--	.44	2.0	13.6	at bridge on old SH 41
123	30°09'43"	99°21'16"	Trinity	--	6.19	1.1	11.6	
123	30°09'11"	99°20'27"	Trinity	--	1.17	6.7	10.5	
123	30°06'00"	99°16'57"	Trinity	--	1.46	3.4	3.8	gaging station (08166000)
124	29°30'19"	98°54'10"	Edwards	--	0	4.4	.4	gaging station near Riomedina (08180000)
124	29°27'18"	98°54'15"	--	--	-3.0	1.5	4.8	
124	29°26'35"	98°55'22"	--	--	1.0	10.0	6.3	
124	29°20'57"	98°53'29"	--	--	-2.0	7.7	16.3	
125	29°51'14"	99°16'45"	Trinity	--	4.7	5.8	2.5	
125	29°47'53"	99°15'24"	Trinity	--	-2.0	14.2	8.3	
125	29°44'08"	99°07'17"	Trinity	--	-.2	5.3	22.5	
125	29°43'06"	99°04'25"	Trinity	--	-.24	1.6	27.8	
125	29°43'28"	99°02'49"	Trinity	--	-1.56	1.7	29.4	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
125	29°43'18"	99°02'20"	Trinity	--	-0.6	0.1	31.1	
125	29°43'08"	99°02'17"	Trinity	--	-.3	1.2	31.2	
125	29°42'57"	99°00'44"	Trinity	--	-.1	1.5	32.4	
125	29°43'27"	98°59'47"	Trinity	--	-.01	1.8	33.9	
125	29°42'35"	98°59'08"	Trinity	--	-.01	.9	35.7	
125	29°42'28"	98°58'21"	Trinity	--	.46	.7	36.6	
125	29°42'00"	98°58'24"	Trinity	--	-.59	1.7	37.3	
125	29°42'00"	98°58'24"	Trinity	--	-1.58	4.0	39	
125	29°42'00"	98°58'24"	Trinity	--	-2.19	3.1	43	
125	29°42'00"	98°58'24"	Trinity	--	-.62	2.1	46.1	
126	29°51'36"	99°24'14"	Trinity	--	2.4	2.0	0	5.3 mi northwest of Lima
126	29°52'28"	99°23'27"	Trinity	--	2.0	2.5	2	
126	29°51'33"	99°22'06"	Trinity	--	-2.0	6.6	4.5	
126	29°50'41"	99°17'45"	Trinity	--	-1.2	1.8	11.1	
126	29°51'14"	99°16'44"	Trinity	--	4.8	3.2	12.9	
126	29°49'30"	99°15'36"	Trinity	--	.2	6.7	16.1	
126	29°46'31"	99°12'12"	Trinity	--	1.7	3.1	22.8	
126	29°45'33"	99°10'47"	Trinity	--	-1.1	8.3	25.9	
126	29°43'12"	99°05'25"	Trinity	--	-.5	4.4	34.2	
126	29°43'10"	99°01'23"	Trinity	--	-2.1	3.1	38.6	
126	29°40'32"	98°58'33"	Trinity	--	-2.0	2.1	41.7	gaging station (08179000)
127	29°51'21"	99°18'45"	Trinity	--	0	2.5	0	0.5 mi below Rocky Creek
127	29°51'14"	99°16'44"	Trinity	--	1.5	5.8	2.5	
127	29°47'53"	99°15'24"	Trinity	--	-1.35	14.2	8.3	
127	29°44'08"	99°07'17"	Trinity	--	-.14	5.3	22.5	
127	29°43'06"	99°04'25"	Trinity	--	-.01	1.7	27.8	
127	29°43'34"	99°02'44"	Trinity	--	0	2.9	29.5	
127	29°42'57"	99°00'44"	Trinity	--	0	1.5	32.4	
127	29°43'27"	98°59'47"	Trinity	--	-.01	1.8	33.9	
127	29°42'35"	98°59'08"	Trinity	--	0	.9	35.7	
127	29°42'28"	98°58'21"	Trinity	--	.24	.7	36.6	
127	29°40'23"	98°58'23"	Trinity	--	.1	1.7	37.3	
127	29°40'51"	98°57'18"	Trinity	--	0	.8	39	gaging station (08179000) near Pipe Creek
127	29°40'03"	98°58'15"	Trinity	--	-.3	3.2	39.8	
127	29°38'17"	98°58'04"	Trinity	--	-.7	.5	43	
127	29°37'41"	98°58'00"	Trinity	--	0	.6	43.5	
127	29°37'39"	98°58'34"	Trinity	--	0	.7	44.1	
127	29°37'29"	98°58'53"	Trinity	--	0	1.3	44.8	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
127	29°35'29"	98°58'46"	Trinity	--	0	1.0	46.1	
128	29°43'06"	99°04'25"	Trinity	--	-6.34	6.2	27.8	FM 689 at Bandera
128	29°43'26"	98°59'44"	Trinity	--	-3.06	2.6	34	
128	29°42'29"	98°58'25"	Trinity	--	7.65	.6	36.6	
128	29°40'32"	98°58'33"	Trinity	--	1.1	1.8	37.2	
128	29°39'27"	98°59'00"	Trinity	--	-3.58	7.1	39	
128	29°37'15"	98°58'50"	Trinity	--	-3.39	2.1	46.1	
129	29°37'47"	98°58'40"	Trinity	--	1.5	3.3	0	at road crossing 0.5 mi below dam
129	29°33'17"	98°58'41"	Trinity	--	2.3	.8	3.3	
129	29°34'08"	98°54'55"	Edwards, Trinity	--	1.5	4.0	4.1	
129	29°31'33"	98°55'09"	Edwards	--	1.3	2.8	8.1	
130	29°30'35"	98°54'01"	Edwards	--	4.1	.8	0	just below diversion dam
130	29°29'51"	98°54'18"	--	--	2.4	4.0	.8	
130	29°28'13"	98°53'22"	--	--	2.8	2.8	4.8	
130	29°26'27"	98°53'46"	--	--	-7.1	9.6	7.6	
130	29°21'17"	98°52'22"	--	--	3.5	2.3	17.2	
130	29°19'28"	98°51'53"	--	--	-4.1	6.8	19.5	
130	29°19'47"	98°46'15"	--	--	-5.4	5.5	26.3	
130	29°20'47"	98°42'19"	--	--	1.0	5.3	31.8	
130	29°18'21"	98°39'43"	--	--	1.5	4.7	37.1	
130	29°16'57"	98°37'10"	Carrizo-Wilcox	--	-2.5	3.4	41.8	
130	29°15'42"	98°35'34"	Carrizo-Wilcox	--	1.8	2.1	45.2	
130	29°14'46"	98°32'53"	Carrizo-Wilcox	--	-2.4	4.0	47.3	
130	29°15'50"	98°29'25"	Carrizo-Wilcox	--	1.2	3.8	51.3	
131	30°04'16"	99°34'25"	Edwards-Trinity Plateau	--	.01	4.0	54	county road low-water crossing
131	30°03'11"	99°32'00"	Edwards-Trinity Plateau	--	.13	1.0	50	
131	30°03'22"	99°31'16"	Edwards-Trinity Plateau	--	10.07	1.0	49	
131	30°03'35"	99°30'12"	Edwards-Trinity Plateau	--	-2.3	1.0	48	at FM 1340 low-water crossing
131	30°03'36"	99°29'17"	Edwards-Trinity Plateau	--	2.5	4.6	47	
131	30°03'39"	99°26'42"	Edwards-Trinity Plateau	--	.7	1.8	42.4	
131	30°03'21"	99°25'08"	Trinity	--	-1.12	.8	40.6	
131	30°03'38"	99°24'39"	Trinity	--	1.56	2.4	39.8	
131	30°04'06"	99°22'48"	Trinity	--	3.77	3.4	37.4	
132	29°57'16"	99°27'33"	Edwards-Trinity Plateau	--	.15	.7	14.9	0.4 mi above Mullen Creek
132	29°57'32"	99°27'11"	Edwards-Trinity Plateau	--	-.02	.2	14.2	
132	29°57'50"	99°27'10"	Edwards-Trinity Plateau	--	-.73	1.4	14	at SH 39 low-water crossing
132	29°58'25"	99°26'48"	Edwards-Trinity Plateau	--	10.1	1.0	12.6	
132	29°58'47"	99°26'30"	Edwards-Trinity Plateau	--	.19	2.9	11.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
132	30°00'19"	99°24'16"	Edwards-Trinity Plateau	--	0.65	1.1	8.7	
132	30°00'15"	99°23'42"	Edwards-Trinity Plateau	--	.19	1.9	7.6	
132	30°00'42"	99°22'24"	Edwards-Trinity Plateau, Trinity	--	1.33	3.0	5.7	
133	29°58'37"	99°13'24"	Trinity	--	9.14	3.5	11.2	at bridge on FM 1273
133	29°57'47"	99°10'54"	Trinity	--	2.82	5.7	7.7	
134	29°53'03"	99°08'53"	Trinity	--	5.63	4.2	11.2	at low-water crossing on county road
134	29°53'46"	99°05'36"	Trinity	--	1.3	1.3	7	
135	29°26'29"	96°56'40"	Gulf Coast	--	.96	5.9	77.7	200 ft below gaging station (08163500)
135	29°22'52"	96°54'36"	Gulf Coast	--	.87	4.1	71.8	
135	29°20'56"	96°54'55"	Gulf Coast	--	.13	1.7	67.7	
135	29°20'14"	96°54'26"	Gulf Coast	--	1.2	3.7	66	
135	29°18'38"	96°54'18"	Gulf Coast	--	2.1	4.8	62.3	
135	29°18'57"	96°51'14"	Gulf Coast	--	-.4	8.2	57.5	
135	29°14'54"	96°51'11"	Gulf Coast	--	2.9	8.7	49.3	
135	29°09'28"	96°52'27"	Gulf Coast	--	1.47	7.3	40.6	
135	29°05'05"	96°49'01"	Gulf Coast	--	3.2	4.1	33.3	
135	29°03'32"	96°46'39"	Gulf Coast	--	1.2	3.9	29.2	
135	29°02'29"	96°43'47"	Gulf Coast	--	1.7	3.1	25.3	
135	29°00'40"	96°42'29"	Gulf Coast	--	.5	5.4	22.2	
135	28°57'38"	96°41'12"	Gulf Coast	--	2.4	4.5	16.8	
136	28°59'50"	96°42'30"	Gulf Coast	--	2.0	3.0	0	
136	28°57'32"	96°41'10"	Gulf Coast	--	-.2	1.1	3	at US 59 gaging station (08164000)
136	28°56'34"	96°41'18"	Gulf Coast	--	2.0	2.4	4.1	
136	28°55'08"	96°39'43"	Gulf Coast	--	1.9	3.0	6.5	
137	28°59'49"	96°42'30"	Gulf Coast	--	1.48	3.0	0	
137	28°57'30"	96°41'10"	Gulf Coast	--	.4	1.1	3	at US 59 gaging station (08164000)
137	28°56'34"	96°41'17"	Gulf Coast	--	1.74	2.4	4.1	
137	28°55'08"	96°39'43"	Gulf Coast	--	.86	3.0	6.5	
138	29°27'57"	96°48'38"	Gulf Coast	--	-.26	2.8	78.2	400 ft below gaging station (08164300)
138	29°25'54"	96°48'02"	Gulf Coast	--	1.7	5.4	75.4	
138	29°22'55"	96°46'44"	Gulf Coast	--	-6.39	8.2	70	
138	29°19'16"	96°42'29"	Gulf Coast	--	7.1	4.4	61.8	
138	29°16'21"	96°42'59"	Gulf Coast	--	3.33	8.7	57.4	
138	29°11'50"	96°44'24"	Gulf Coast	--	2.7	4.8	48.7	
138	29°08'08"	96°44'39"	Gulf Coast	--	-1.0	4.9	43.9	
138	29°05'47"	96°43'07"	Gulf Coast	--	1.9	5.9	39	
138	29°03'55"	96°40'24"	Gulf Coast	--	1.1	5.3	33.1	
138	29°01'52"	96°37'18"	Gulf Coast	--	-.53	5.8	27.8	

Table 4. Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
138	29°01'34"	96°33'09"	Gulf Coast	--	1.45	8.2	22	
139	32°15'21"	94°59'43"	--	Queen City	.4	.5	0	at county road crossing 0.25 mi above mouth
139	32°15'19"	94°59'20"	--	Queen City	-.1	.8	.5	
139	32°13'08"	94°58'21"	Carrizo-Wilcox	Queen City	-.5	2.4	1.3	
139	32°11'19"	94°58'33"	Carrizo-Wilcox	--	3.1	1.9	3.7	
139	32°09'21"	94°59'07"	Carrizo-Wilcox	--	.1	.9	5.6	
140	29°01'13"	98°36'56"	--	Queen City	.96	2.9	0	3 mi southwest of Poteet
140	29°00'59"	98°34'42"	--	Queen City	1.77	2.2	2.9	
140	29°00'39"	98°33'02"	--	Queen City	-.43	3.9	5.1	
140	28°59'43"	98°31'24"	--	Queen City, Sparta	1.05	6.0	9	
140	28°58'10"	98°28'51"	--	Sparta	.45	6.0	15	
140	28°56'43"	98°24'33"	--	--	.02	14.1	21	
140	28°51'49"	98°20'09"	--	--	.28	12.0	35.1	
140	28°37'12"	98°17'07"	--	--	-.51	12.6	47.1	
140	28°37'19"	98°17'07"	Gulf Coast	--	-.53	11.7	59.7	
140	28°31'35"	98°12'14"	Gulf Coast	--	.06	9.1	71.4	
140	28°26'10"	98°11'06"	Gulf Coast	--	.76	6.9	80.5	
140	28°26'14"	98°06'51"	Gulf Coast	--	1.15	9.0	87.4	
140	28°21'20"	98°05'45"	Gulf Coast	--	-.2	7.4	96.4	
141	28°44'56"	98°18'16"	--	--	2.29	.5	47.1	hwy bridge at Campbellton
141	28°44'39"	98°18'29"	--	--	.25	4.8	47.6	
141	28°41'34"	98°18'45"	--	--	-.96	3.4	52.4	
141	28°39'24"	98°18'20"	--	--	.14	3.9	55.8	
141	28°37'17"	98°17'07"	--	--	-.82	1.4	59.7	
141	28°37'03"	98°15'44"	Gulf Coast	--	.05	7.9	61.1	
141	28°32'56"	98°12'27"	Gulf Coast	--	-.18	2.4	69	
141	28°31'35"	98°12'12"	Gulf Coast	--	-.55	2.5	71.4	
141	28°29'29"	98°11'53"	Gulf Coast	--	-.02	6.6	73.9	
141	28°26'09"	98°11'06"	Gulf Coast	--	.27	6.9	80.5	
141	28°26'15"	98°06'51"	Gulf Coast	--	.21	2.3	87.4	
141	28°24'17"	98°06'32"	Gulf Coast	--	1.13	6.7	89.7	
141	28°21'20"	98°05'45"	Gulf Coast	--	-2.1	7.4	96.4	
141	28°17'50"	98°03'01"	Gulf Coast	--	1.42	3.5	103.8	
142	28°44'39"	98°18'29"	--	--	-.53	8.2	47.6	at Campbellton
142	28°39'24"	98°18'21"	--	--	-.44	2.5	55.8	
142	28°37'47"	98°18'15"	--	--	-.11	1.4	58.3	
142	28°37'17"	98°17'07"	--	--	.01	1.3	59.7	
142	28°37'05"	98°15'48"	Gulf Coast	--	-.37	8.0	61	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
142	28°32'56"	98°12'27"	Gulf Coast	--	0.09	2.4	69	
142	28°31'35"	98°12'12"	Gulf Coast	--	-.5	9.1	71.4	
142	28°26'09"	98°11'06"	Gulf Coast	--	.79	6.9	80.5	
142	28°26'14"	98°06'51"	Gulf Coast	--	.55	2.3	87.4	
142	28°24'17"	98°06'32"	Gulf Coast	--	.72	6.7	89.7	
142	28°21'19"	98°05'45"	Gulf Coast	--	.5	7.4	96.4	
142	28°17'50"	98°03'00"	Gulf Coast	--	-.93	2.1	103.8	
143	29°38'38"	99°52'12"	Edwards-Trinity Plateau	--	.2	.7	8.2	
143	29°38'17"	99°51'23"	Edwards-Trinity Plateau	--	-.2	2.2	8.9	
143	29°36'39"	99°51'08"	Edwards-Trinity Plateau	--	1.0	1.1	11.1	
143	29°35'55"	99°51'03"	Edwards-Trinity Plateau	--	-1.0	.9	12.2	
143	29°35'13"	99°50'45"	Edwards-Trinity Plateau	--	.4	.2	13.1	
143	29°35'02"	99°50'44"	Edwards-Trinity Plateau	--	-.4	.6	13.3	
143	29°34'27"	99°50'24"	Edwards-Trinity Plateau	--	.1	.3	13.9	
143	29°34'20"	99°50'43"	Edwards-Trinity Plateau	--	.9	1.1	14.2	
143	29°33'40"	99°50'54"	Edwards-Trinity Plateau	--	.29	1.1	15.3	
143	29°32'45"	99°50'58"	Edwards-Trinity Plateau	--	-.05	2.3	16.4	
143	29°32'27"	99°50'51"	Edwards, Edwards-Trinity Plateau	--	-.42	3.9	18.7	
143	29°30'49"	99°48'40"	Edwards, Edwards-Trinity Plateau	--	.66	1.5	22.6	
143	29°30'01"	99°48'39"	Edwards	--	-.24	2.0	24.1	
143	29°30'15"	99°46'51"	Edwards	--	-1.99	2.1	26.1	gaging station (08196000) at river mile 26.2
144	29°42'50"	99°53'11"	Edwards-Trinity Plateau	--	.56	.8	0	
144	29°42'02"	99°53'29"	Edwards-Trinity Plateau	--	-.32	1.7	.8	
144	29°41'18"	99°53'17"	Edwards-Trinity Plateau	--	-2.24	3.7	2.5	
144	29°40'10"	99°52'01"	Edwards-Trinity Plateau	--	.8	1.2	6.2	
144	29°39'14"	99°52'08"	Edwards-Trinity Plateau	--	-.6	.3	7.4	
144	29°39'00"	99°52'19"	Edwards-Trinity Plateau	--	-.2	.5	7.7	
144	29°38'38"	99°52'12"	Edwards-Trinity Plateau	--	1.0	.7	8.2	
144	29°38'17"	99°51'24"	Edwards-Trinity Plateau	--	-1.0	2.2	8.9	
144	29°36'39"	99°51'09"	Edwards-Trinity Plateau	--	1.0	1.1	11.1	
144	29°35'55"	99°51'03"	Edwards-Trinity Plateau	--	-.8	.8	12.2	
144	29°35'26"	99°50'45"	Edwards-Trinity Plateau	--	1.3	.2	13	
144	29°35'07"	99°50'46"	Edwards-Trinity Plateau	--	-1.0	.3	13.2	
144	29°34'48"	99°50'38"	Edwards-Trinity Plateau	--	-.5	.2	13.5	
144	29°34'38"	99°50'27"	Edwards-Trinity Plateau	--	1.0	.8	13.7	
144	29°34'10"	99°50'53"	Edwards-Trinity Plateau	--	1.82	.8	14.5	
144	29°33'35"	99°50'58"	Edwards-Trinity Plateau	--	-1.14	3.4	15.3	
144	29°32'16"	99°49'59"	Edwards, Edwards-Trinity Plateau	--	-.98	5.4	18.7	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
144	29°30'01"	99°48'39"	Edwards	--	0.36	2.0	24.1	
144	29°30'15"	99°46'51"	Edwards	--	-1.24	1.9	26.1	gaging station (08196000) at river mile 26.2
145	29°42'50"	99°53'11"	Edwards-Trinity Plateau	--	.91	.8	0	
145	29°42'02"	99°53'29"	Edwards-Trinity Plateau	--	-1.01	1.7	.8	
145	29°41'10"	99°53'34"	Edwards-Trinity Plateau	--	.15	2.3	2.5	
145	29°40'53"	99°52'27"	Edwards-Trinity Plateau	--	-3.74	1.9	4.8	
145	29°39'35"	99°51'45"	Edwards-Trinity Plateau	--	4.33	1.0	6.7	
145	29°39'00"	99°52'19"	Edwards-Trinity Plateau	--	1.1	4.3	7.7	
145	29°36'12"	99°50'45"	Edwards-Trinity Plateau	--	5.01	3.3	12	
145	29°33'35"	99°50'58"	Edwards-Trinity Plateau	--	4.08	3.4	15.3	
145	29°32'16"	99°49'59"	Edwards, Edwards-Trinity Plateau	--	.1	2.4	18.7	
145	29°30'35"	99°49'47"	Edwards	--	.4	3.0	21.1	
145	29°29'58"	99°48'38"	Edwards	--	-.32	1.9	24.1	
145	29°30'15"	99°46'51"	Edwards	--	-1.0	.1	26	gaging station (08196000) at river mile 26.2
146	29°35'32"	99°50'46"	Edwards-Trinity Plateau	--	1.15	2.4	0	at Clark Ranch house 6 mi above Reagan Wells
146	29°34'04"	99°50'49"	Edwards-Trinity Plateau	--	3.01	4.1	2.4	
146	29°32'06"	99°49'41"	Edwards, Edwards-Trinity Plateau	--	1.58	4.0	6.5	
146	29°30'28"	99°48'31"	Edwards	--	2.92	3.5	10.5	
146	29°29'51"	99°46'46"	Edwards	--	-9.66	1.5	14	
147	29°30'15"	99°46'51"	Edwards	--	-54.0	4.0	0	gaging station (08196000)
147	29°27'25"	99°45'30"	Edwards	--	-255.0	12.8	4	
147	29°22'26"	99°42'11"	--	--	-83.8	1.4	16.8	
147	29°21'29"	99°41'39"	--	--	-17.4	3.1	18.2	
147	29°19'48"	99°40'44"	--	--	-15.41	3.3	21.3	
148	29°48'22"	99°39'28"	Edwards-Trinity Plateau	--	-.11	4.1	11	11 mi above mouth
148	29°50'31"	99°39'52"	Edwards-Trinity Plateau	--	-.61	.8	6.9	
148	29°50'03"	99°39'41"	Edwards-Trinity Plateau	--	1.23	.9	6.1	
148	29°48'31"	99°40'43"	Edwards-Trinity Plateau	--	-4.91	2.6	5.2	
148	29°45'38"	99°42'59"	Edwards-Trinity Plateau	--	-2.61	.6	2.6	
148	29°45'35"	99°43'28"	Edwards-Trinity Plateau	--	0	1.0	2	
148	29°45'00"	99°43'44"	Edwards-Trinity Plateau	--	1.94	.1	1	
148	29°44'57"	99°43'53"	Edwards-Trinity Plateau	--	-1.94	.9	.9	
149	29°48'22"	99°39'28"	Edwards-Trinity Plateau	--	.83	2.1	11	11 mi above mouth
149	29°51'36"	99°39'27"	Edwards-Trinity Plateau	--	1.72	2.1	8.9	
149	29°50'30"	99°40'00"	Edwards-Trinity Plateau	--	-.1	1.0	6.8	
149	29°49'45"	99°39'50"	Edwards-Trinity Plateau	--	-.9	.7	5.8	
149	29°48'30"	99°40'44"	Edwards-Trinity Plateau	--	-5.3	3.1	5.1	
149	29°45'35"	99°43'28"	Edwards-Trinity Plateau	--	-.36	1.0	2	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intercepted by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
149	29°45'00"	99°43'44"	Edwards-Trinity Plateau	--	0.76	0.1	1	
149	29°44'57"	99°43'53"	Edwards-Trinity Plateau	--	-.76	.9	.9	
150	29°48'31"	99°40'44"	Edwards-Trinity Plateau	--	-6.95	4.2	5.2	road above Cypress Creek
150	29°44'58"	99°43'51"	Edwards-Trinity Plateau	--	3.53	.5	1	
150	29°44'56"	99°43'54"	Edwards-Trinity Plateau	--	-3.53	.5	.5	
151	29°48'32"	99°40'44"	Edwards-Trinity Plateau	--	-9.52	4.2	5.2	5.2 mi above Frio River
151	29°44'58"	99°43'52"	Edwards-Trinity Plateau	--	3.19	.5	1	
151	29°44'56"	99°43'54"	Edwards-Trinity Plateau	--	-2.16	.5	.5	
152	29°50'31"	99°39'50"	Edwards-Trinity Plateau	--	-1.11	.1	0	just above Big Spring Creek
152	29°50'31"	99°39'44"	Edwards-Trinity Plateau	--	2.64	3.2	.1	
152	29°48'57"	99°40'32"	Edwards-Trinity Plateau	--	-2.53	5.5	3.3	
152	29°45'34"	99°43'00"	Edwards-Trinity Plateau	--	-8.91	2.0	8.8	
152	29°44'03"	99°44'57"	Edwards-Trinity Plateau	--	4.53	1.0	10.8	
152	29°42'56"	99°45'22"	Edwards-Trinity Plateau	--	6.57	.5	11.8	
152	29°42'18"	99°45'11"	Edwards-Trinity Plateau	--	2.0	2.5	12.3	
152	29°40'57"	99°44'45"	Edwards-Trinity Plateau	--	5.5	8.5	14.8	
152	29°36'15"	99°44'15"	Edwards-Trinity Plateau	--	13.1	3.5	23.3	
152	29°34'36"	99°43'29"	Edwards, Edwards-Trinity Plateau	--	1.0	4.5	26.8	
152	29°29'17"	99°42'15"	Edwards	--	-8.0	1.0	31.3	
152	29°28'41"	99°41'50"	Edwards	--	-12.4	3.0	32.3	
152	29°26'44"	99°41'11"	Edwards	--	-13.8	2.5	35.3	
152	29°26'47"	99°39'50"	Edwards	--	-3.8	.3	37.8	
152	29°26'33"	99°39'40"	Edwards	--	-2.5	.2	38.1	
153	29°52'03"	99°39'47"	Edwards-Trinity Plateau	--	.52	4.1	0	on Wolf Ranch 3,300 ft above dam
153	29°50'30"	99°39'52"	Edwards-Trinity Plateau	--	13.85	16.7	4.1	
153	29°37'22"	99°45'00"	Edwards-Trinity Plateau	--	-12.8	1.7	20.8	
153	29°36'14"	99°44'15"	Edwards-Trinity Plateau	--	19.3	2.1	22.5	
153	29°35'06"	99°43'56"	Edwards-Trinity Plateau	--	.2	1.9	24.6	
153	29°34'25"	99°42'57"	Edwards-Trinity Plateau	--	.9	3.5	26.5	
153	29°32'10"	99°42'47"	Edwards, Edwards-Trinity Plateau	--	-2.0	4.8	30	
153	29°29'17"	99°42'15"	Edwards	--	-8.96	1.0	34.8	
153	29°28'40"	99°41'50"	Edwards	--	-5.72	.7	35.8	
153	29°28'11"	99°42'01"	Edwards	--	-3.72	.1	36.5	
153	29°28'08"	99°42'01"	Edwards	--	2.71	.8	36.6	
153	29°27'59"	99°42'06"	Edwards	--	-1.99	.7	37.4	
153	29°27'44"	99°42'12"	Edwards	--	-.72	.4	38.1	
154	28°29'32"	98°15'05"	Gulf Coast	--	1.2	1.65	0	at Choke Canyon Reservoir
154	28°29'09"	98°14'21"	Gulf Coast	--	-1.68	5.08	1.65	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
154	28°28'01"	98°11'20"	Gulf Coast	--	0.6	1.86	6.73	
155	29°29'17"	99°42'15"	Edwards	--	-41.0	5.6	0	gaging station (08195000)
155	29°26'46"	99°39'57"	Edwards	--	-66.3	6.1	5.6	
155	29°23'47"	99°38'54"	--	--	-21.0	2.9	11.7	
155	29°19'48"	99°39'14"	--	--	-29.9	2.2	14.6	
155	29°19'48"	99°39'14"	--	--	-32.2	5.4	16.8	
155	29°17'31"	99°38'54"	--	--	-9.74	6.2	22.2	
156	29°29'17"	99°42'15"	Edwards	--	-7.0	1.2	0	gaging station at Concan (08195000)
156	29°28'36"	99°41'55"	Edwards	--	27.0	1.8	1.2	
156	29°27'34"	99°41'40"	Edwards	--	-33.0	2.0	3	
156	29°26'44"	99°40'06"	Edwards	--	-220.0	13.5	5	
157	29°29'17"	99°42'15"	Edwards	--	-16.0	1.2	0	gaging station at Concan (08195000)
157	29°28'36"	99°41'55"	Edwards	--	15.0	1.8	1.2	
157	29°27'34"	99°41'40"	Edwards	--	-24.2	2.0	3	
157	29°26'44"	99°40'06"	Edwards	--	-98.8	13.5	5	
158	29°29'41"	99°42'40"	Edwards	--	2.0	1.0	0	at Concan-Leakey road crossing
158	29°29'17"	99°42'15"	Edwards	--	2.0	1.5	1	
158	29°28'25"	99°42'01"	Edwards	--	-9.0	2.0	2.5	
158	29°27'11"	99°41'34"	Edwards	--	-20.7	1.5	4.5	
159	28°28'18"	98°48'14"	--	--	.7	9.1	62.9	at SH 97 crossing
159	28°25'49"	98°41'17"	--	--	3.51	24.7	53.8	
159	28°31'03"	98°26'35"	--	--	5.46	10.1	29.1	
159	28°31'24"	98°23'22"	Gulf Coast	--	-1.0	9.6	19	
159	28°29'04"	98°14'37"	Gulf Coast	--	1.96	9.4	9.4	
160	29°29'17"	99°42'15"	Edwards	--	-51.0	5.6	0	gaging station (08196000)
160	29°26'47"	99°39'55"	Edwards	--	-61.0	6.1	5.6	
160	29°23'22"	99°38'57"	--	--	-41.0	2.9	11.7	
160	29°21'02"	99°39'32"	--	--	-35.7	2.2	14.6	
160	29°16'45"	99°39'12"	--	--	-45.0	5.4	16.8	
160	29°17'30"	99°38'43"	--	--	-25.48	6.2	22.2	
161	29°29'17"	99°42'15"	Edwards	--	23.0	5.6	0	gaging station (08196000)
161	29°26'47"	99°39'55"	Edwards	--	-48.0	6.1	5.6	
161	29°23'21"	99°38'56"	--	--	-30.0	2.9	11.7	
161	29°21'02"	99°39'32"	--	--	-59.0	2.2	14.6	
161	29°16'45"	99°39'12"	--	--	-75.0	5.4	16.8	
161	29°17'30"	99°38'43"	--	--	-40.0	6.2	22.2	
162	29°40'30"	99°20'08"	Trinity	--	2.23	3.2	0	
162	29°38'45"	99°18'17"	Trinity	--	4.1	2.9	3.2	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
162	29°38'37"	99°16'21"	Trinity	--	0	0.1	6.1	
162	29°38'35"	99°16'14"	Trinity	--	6.2	2.1	6.2	
162	29°37'01"	99°15'32"	Trinity	--	4.04	1.7	8.3	
162	29°35'43"	99°15'15"	Edwards, Trinity	--	3.85	2.2	10	
162	29°34'09"	99°14'47"	Edwards	--	-9.7	2.7	12.2	gaging station near Tarpley (08200000)
162	29°32'36"	99°14'03"	Edwards	--	-5.2	3.9	14.9	
162	29°30'14"	99°12'42"	Edwards	--	-8.3	2.6	18.8	
162	29°28'22"	99°12'21"	Edwards	--	-5.5	2.7	21.4	
162	29°27'04"	99°11'12"	--	--	-16.5	3.5	24.1	
162	29°24'21"	99°10'22"	--	--	-2.6	3.5	27.6	
162	29°22'54"	99°08'22"	--	--	-1.24	3.6	31.1	
162	29°22'02"	99°05'12"	--	--	.84	2.5	34.7	
163	29°34'59"	99°15'00"	Edwards, Trinity	--	7.0	1.7	10.5	50 ft below Bandera Creek
163	29°34'00"	99°15'00"	Edwards	--	-24.0	2.7	12.2	
163	29°31'59"	99°13'59"	Edwards	--	-25.0	3.9	14.9	
163	29°30'00"	99°12'59"	Edwards	--	-11.0	2.6	18.8	
163	29°28'00"	99°12'59"	Edwards	--	-17.0	2.7	21.4	
163	29°27'00"	99°10'59"	--	--	-28.0	3.5	24.1	
163	29°24'00"	99°09'59"	--	--	-3.0	2.5	27.6	
163	29°23'16"	99°08'49"	--	--	1.0	1.9	30.1	
163	29°22'59"	99°06'59"	--	--	0	2.6	32	
163	29°22'00"	99°04'59"	--	--	1.0	2.6	34.6	
163	29°21'00"	99°03'00"	--	--	1.0	2.8	37.2	
164	29°34'09"	99°14'47"	Edwards	--	-78.0	5.7	0	gaging station (08200000)
164	29°31'17"	99°13'12"	Edwards	--	-41.7	4.0	5.7	
164	29°28'23"	99°12'15"	Edwards	--	-20.3	2.7	9.7	
164	29°27'06"	99°11'12"	--	--	-19.4	4.4	12.4	
164	29°24'16"	99°10'22"	--	--	1.3	2.1	16.8	
165	29°11'19"	99°46'14"	--	--	4.7	1.9	0	at old hwy bridge 1.7 mi southeast of Uvalde
165	29°10'27"	99°45'47"	--	--	0	1.9	1.9	
165	29°09'15"	99°44'35"	Carrizo-Wilcox	--	5.1	2.5	3.8	
165	29°07'54"	99°42'27"	Carrizo-Wilcox	--	-1.8	3.0	6.3	
165	29°06'49"	99°41'07"	Carrizo-Wilcox	--	5.4	.5	9.3	
165	29°06'35"	99°40'50"	Carrizo-Wilcox	--	.2	.3	9.8	
165	29°06'22"	99°40'40"	Carrizo-Wilcox	--	1.0	.9	10.1	
165	29°05'48"	99°40'06"	Carrizo-Wilcox	--	-.5	.3	11	
165	29°05'42"	99°40'00"	Carrizo-Wilcox	--	-.3	.3	11.3	
165	29°05'31"	99°39'45"	Carrizo-Wilcox	--	.2	.2	11.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
165	29°05'25"	99°39'28"	Carrizo-Wilcox	--	1.5	0.5	11.8	
165	29°05'23"	99°39'24"	Carrizo-Wilcox	--	-3.3	.6	12.3	
165	29°05'10"	99°39'19"	Carrizo-Wilcox	--	.6	.6	12.9	
165	29°05'06"	99°39'29"	Carrizo-Wilcox	--	-.5	2.4	13.5	
165	29°04'02"	99°38'46"	Carrizo-Wilcox	--	.5	1.3	15.9	
165	29°02'39"	99°37'45"	--	--	-2.0	2.1	17.2	
165	29°01'40"	99°37'26"	--	--	-.8	1.5	19.3	
165	29°00'37"	99°37'15"	--	--	.6	.5	20.8	
165	29°00'24"	99°37'06"	--	--	-2.8	1.9	21.3	
165	28°58'57"	99°37'06"	--	--	.3	1.3	23.2	
165	28°58'03"	99°36'55"	--	--	-.7	.9	24.5	
165	28°57'47"	99°36'49"	--	--	-.2	.8	25.4	
165	28°57'14"	99°36'32"	--	--	-1.0	2.2	26.2	
165	28°56'13"	99°35'41"	--	--	-.5	2.0	28.4	
165	28°54'59"	99°34'57"	--	--	-.4	1.1	30.4	
165	28°54'57"	99°34'58"	--	--	-1.2	2.5	31.5	
165	28°53'25"	99°34'05"	--	--	.1	2.3	34	
165	28°52'10"	99°33'34"	--	--	-.4	2.0	36.3	
165	28°51'49"	99°32'14"	--	--	-.8	3.8	38.3	
165	28°50'56"	99°29'30"	--	--	-.7	4.1	42.1	
165	28°50'16"	99°27'11"	--	--	-.3	3.2	46.2	
166	29°11'19"	99°46'15"	--	--	4.9	2.1	0	at hwy bridge 1.7 mi southeast of Uvalde
166	29°10'09"	99°45'47"	--	--	8.4	4.5	2.1	
166	29°09'15"	99°44'35"	Carrizo-Wilcox	--	-9.2	1.5	6.6	
166	29°07'03"	99°41'25"	Carrizo-Wilcox	--	11.9	2.9	8.1	
166	29°05'32"	99°39'45"	Carrizo-Wilcox	--	-9.6	6.0	11	
166	29°00'38"	99°37'16"	--	--	-2.6	3.1	17	
166	28°58'58"	99°37'06"	--	--	-2.2	2.0	20.1	
166	28°57'47"	99°36'49"	--	--	-1.1	1.2	22.1	
166	28°54'19"	99°34'37"	--	--	-1.4	3.1	23.3	
166	28°53'25"	99°34'05"	--	--	-1.7	7.1	26.4	
166	28°50'56"	99°29'30"	--	--	-.5	4.0	33.5	
167	29°11'18"	99°46'14"	--	--	.6	1.9	0	at hwy bridge 1.7 mi southeast of Uvalde
167	29°10'26"	99°45'47"	--	--	-.1	1.9	1.9	
167	29°09'14"	99°44'35"	Carrizo-Wilcox	--	2.5	.8	3.8	
167	29°08'47"	99°43'46"	Carrizo-Wilcox	--	-.4	.9	4.6	
167	29°08'48"	99°43'46"	Carrizo-Wilcox	--	-.5	.8	5.5	
167	29°08'32"	99°43'04"	Carrizo-Wilcox	--	-1.4	3.0	6.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
167	29°06'50"	99°41'08"	Carrizo-Wilcox	--	1.0	0.1	9.3	
167	29°06'48"	99°41'06"	Carrizo-Wilcox	--	2.7	.4	9.4	
167	29°06'40"	99°40'57"	Carrizo-Wilcox	--	.3	1.2	9.8	
167	29°05'48"	99°40'06"	Carrizo-Wilcox	--	-1	.6	11	
167	29°05'32"	99°39'44"	Carrizo-Wilcox	--	-1.0	1.3	11.6	
167	29°05'09"	99°39'18"	Carrizo-Wilcox	--	-1.4	3.0	12.9	
167	29°04'01"	99°38'46"	Carrizo-Wilcox	--	-5	1.3	15.9	
167	29°02'39"	99°37'46"	--	--	-1.4	2.1	17.2	
167	29°01'40"	99°37'26"	--	--	0	1.5	19.3	
167	29°00'27"	99°36'59"	--	--	0	2.4	20.8	
167	28°58'58"	99°37'06"	--	--	0	2.2	23.2	
167	28°57'47"	99°36'49"	--	--	0	.8	25.4	
167	28°57'14"	99°36'32"	--	--	0	4.2	26.2	
167	28°55'38"	99°35'10"	--	--	0	5.9	30.4	
168	29°11'19"	99°46'15"	--	--	6.51	3.8	0	at hwy bridge 1.7 mi southeast of Uvalde
168	29°09'14"	99°44'34"	Carrizo-Wilcox	--	7.0	.8	3.8	
168	29°07'54"	99°42'27"	Carrizo-Wilcox	--	-4.1	4.7	4.6	
168	29°06'50"	99°41'08"	Carrizo-Wilcox	--	5.5	.5	9.3	
169	29°11'18"	99°46'15"	--	--	7.6	2.1	0	at hwy bridge 1.7 mi southeast of Uvalde
169	29°10'09"	99°45'47"	--	--	4.4	4.5	2.1	
169	29°09'14"	99°44'35"	Carrizo-Wilcox	--	-7.4	2.0	6.6	
169	29°06'49"	99°41'06"	Carrizo-Wilcox	--	5.2	4.4	8.6	
169	29°04'02"	99°38'46"	Carrizo-Wilcox	--	-4.0	4.0	13	
169	29°00'37"	99°37'15"	--	--	-3.6	3.1	17	
169	28°58'58"	99°37'06"	--	--	-2.9	3.2	20.1	
169	28°54'19"	99°34'37"	--	--	-8	3.1	23.3	
169	28°53'25"	99°34'05"	--	--	-1.6	8.2	26.4	Ottenhouse Ranch
170	29°11'19"	99°46'14"	--	--	5.2	2.1	0	at hwy bridge 1.7 mi southeast of Uvalde
170	29°10'08"	99°45'47"	--	--	4.8	3.7	2.1	
170	29°09'24"	99°44'42"	Carrizo-Wilcox	--	-4.3	2.3	5.8	
170	29°07'03"	99°41'25"	Carrizo-Wilcox	--	5.6	1.0	8.1	
170	29°06'35"	99°40'50"	Carrizo-Wilcox	--	-1.2	3.9	9.1	
170	29°04'02"	99°38'46"	Carrizo-Wilcox	--	-2.5	4.0	13	
170	29°00'37"	99°37'15"	--	--	-1.6	3.1	17	
170	28°58'58"	99°37'06"	--	--	-1.0	3.2	20.1	
170	28°54'19"	99°34'37"	--	--	-1.8	3.1	23.3	
170	28°53'24"	99°34'05"	--	--	-8	8.2	26.4	
171	29°11'19"	99°46'14"	--	--	6.9	4.8	0	at hwy bridge 1.7 mi southeast of Uvalde

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
171	29°09'15"	99°44'34"	Carrizo-Wilcox	--	0.2	3.3	4.8	
171	29°07'04"	99°41'25"	Carrizo-Wilcox	--	5.9	1.0	8.1	
171	29°06'35"	99°40'50"	Carrizo-Wilcox	--	-10.2	1.0	9.1	
171	29°05'53"	99°40'16"	Carrizo-Wilcox	--	8.0	2.9	10.1	
171	29°04'02"	99°38'46"	Carrizo-Wilcox	--	-3.1	4.0	13	
171	29°00'37"	99°37'16"	--	--	-2.5	3.1	17	
171	28°58'57"	99°37'06"	--	--	-.6	.9	20.1	
171	28°58'03"	99°36'55"	--	--	-.2	1.0	21	
171	28°57'14"	99°36'32"	--	--	-.1	1.0	22	
172	29°11'19"	99°46'15"	--	--	22.2	5.5	0	at hwy bridge 1.7 mi southeast of Uvalde
172	29°09'24"	99°44'42"	Carrizo-Wilcox	--	-.7	2.6	5.5	
172	29°07'03"	99°41'25"	Carrizo-Wilcox	--	-.3	8.9	8.1	
173	29°06'49"	99°41'07"	Carrizo-Wilcox	--	6.8	.5	.5	200 ft below headgate
173	29°06'35"	99°40'50"	Carrizo-Wilcox	--	-4.8	7.9	1	0.5 mi below Kincaid Dam
173	29°00'36"	99°37'14"	--	--	0	3.1	8.9	
173	28°58'57"	99°37'08"	--	--	-2.0	1.7	12	
173	28°58'03"	99°36'55"	Carrizo-Wilcox	--	3.4	1.5	13.7	
173	29°05'31"	99°39'45"	Carrizo-Wilcox	--	-5.5	3.1	15.2	
173	28°53'25"	99°34'05"	--	--	-1.7	8.2	18.3	
174	29°09'15"	99°44'35"	--	--	.3	.9	4.6	on W.E. Lee Ranch 5.2 mi southeast of Uvalde
174	29°08'57"	99°44'02"	Carrizo-Wilcox	--	-9.0	3.3	5.5	
174	29°07'03"	99°41'25"	Carrizo-Wilcox	--	3.4	.5	8.8	not measured
174	29°06'49"	99°41'07"	Carrizo-Wilcox	--	2.2	.1	9.3	
174	29°06'46"	99°41'03"	Carrizo-Wilcox	--	2.6	.1	9.4	
174	29°06'47"	99°41'03"	Carrizo-Wilcox	--	1.2	.3	9.5	
175	29°11'19"	99°46'15"	--	--	5.42	2.1	0	at Uvalde-Friortown Hwy crossing
175	29°10'09"	99°45'47"	--	--	1.42	4.0	2.1	
175	29°09'15"	99°44'34"	Carrizo-Wilcox	--	4.28	2.0	6.1	
175	29°07'03"	99°41'25"	Carrizo-Wilcox	--	12.0	2.9	8.1	
175	29°05'32"	99°39'44"	Carrizo-Wilcox	--	-3.99	6.0	11	
175	29°00'38"	99°37'16"	--	--	-2.16	3.1	17	
175	28°58'58"	99°37'06"	--	--	-.68	2.0	20.1	
175	28°57'47"	99°36'49"	--	--	.1	1.2	22.1	estimate
175	28°54'19"	99°34'37"	--	--	-.2	3.1	23.3	estimate
175	28°53'26"	99°34'06"	--	--	-.3	7.1	26.4	estimate
176	29°29'26"	99°23'25"	Trinity	--	.1	1.9	9	9 mi above mouth
176	29°29'26"	99°23'25"	Trinity	--	1.4	1.4	7.1	
176	29°29'26"	99°23'25"	Trinity	--	0	.9	5.7	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
176	29°29'26"	99°23'25"	Trinity	--	-1.5	0.2	4.8	
176	29°29'26"	99°23'25"	Trinity	--	0	1.2	4.6	
176	29°29'25"	99°23'25"	Edwards, Trinity	--	0	3.4	3.4	
177	29°31'17"	99°05'03"	Edwards	--	-65.0	3.7	0	on SH 173
177	29°30'11"	99°06'02"	Edwards, Trinity	--	-17.0	1.4	3.7	
177	29°30'05"	99°06'30"	Edwards	--	111.0	2.3	5.1	
177	29°34'08"	99°05'54"	Edwards	--	-43.0	.7	7.4	
177	29°32'17"	99°05'53"	Edwards	--	-80.0	1.9	8.1	
177	29°29'00"	99°07'31"	Edwards, Trinity	--	-14.0	2.6	10	
177	29°27'00"	99°07'30"	Trinity	--	-8.0	3.9	12.6	
178	29°34'08"	99°05'54"	Edwards	--	-3.0	3.7	0	on SH 173
178	29°32'17"	99°05'03"	Edwards, Trinity	--	-208.0	.7	3.7	
178	29°34'41"	99°04'48"	Edwards, Trinity	--	275.0	2.1	3	
178	29°31'17"	99°05'03"	Edwards	--	-366.0	2.3	5.1	
178	29°30'11"	99°06'02"	Edwards	--	252.0	.7	7.4	
178	29°30'05"	99°06'30"	Edwards	--	-48.0	1.9	8.1	
178	29°29'00"	99°07'31"	Edwards	--	-14.0	2.6	10	
178	29°27'00"	99°07'30"	Edwards	--	-49.0	3.9	12.6	
179	29°34'08"	99°05'54"	Edwards	--	-24.0	3.7	0	on SH 173
179	29°32'17"	99°05'03"	Edwards, Trinity	--	-33.0	1.4	3.7	
179	29°31'17"	99°05'03"	Edwards	--	-21.0	2.3	5.1	
179	29°30'11"	99°06'02"	Edwards	--	0	.7	7.4	
179	29°30'05"	99°06'30"	Edwards	--	-5.0	1.9	8.1	
179	29°29'00"	99°07'31"	Edwards	--	-3.0	6.5	10	
180	29°35'15"	99°06'32"	Trinity	--	-48.4	11.2	0	1.3 mi below West Verde Creek
180	29°28'55"	99°07'18"	Edwards, Trinity	--	-5.0	5.2	11.2	
180	29°24'23"	99°07'12"	Edwards	--	-5.0	1.3	16.4	
180	29°24'25"	99°07'24"	--	--	.1	.5	17.7	
180	29°24'16"	99°06'58"	--	--	0	1.3	18.2	
181	29°34'32"	99°05'54"	Edwards	--	-24.0	3.7	24	700 ft above bridge on SH 173
181	29°32'34"	99°04'46"	Edwards, Trinity	--	-33.0	1.4	20.3	
181	29°31'30"	99°05'03"	Edwards	--	-21.0	2.3	18.9	
181	29°30'29"	99°06'01"	Edwards	--	0	.7	16.6	
181	29°30'29"	99°06'30"	Edwards	--	-5.0	1.9	15.9	
181	29°29'30"	99°07'17"	Edwards	--	-4.0	3.0	14	
181	29°27'24"	99°07'30"	Edwards	--	1.0	3.5	11	
182	29°25'41"	99°59'48"	Edwards	--	-17.5	8.0	-4	0.4 mi above gaging station at Laguna (08190000)
182	29°20'50"	99°57'24"	Edwards	--	-40.5	1.2	7.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
182	29°20'10"	99°56'46"	Edwards	--	-18.4	3.2	8.8	
182	29°16'47"	99°56'52"	--	--	0	7.6	12	
182	29°12'19"	99°54'05"	--	--	8.6	2.0	19.6	
182	29°10'51"	99°53'44"	Carrizo-Wilcox	--	6.4	6.0	21.6	
182	29°07'24"	99°53'38"	Carrizo-Wilcox	--	-5.7	2.8	27.6	
182	29°04'03"	99°51'00"	Carrizo-Wilcox	--	-3.3	5.3	30.4	
182	29°01'19"	99°48'52"	Carrizo-Wilcox	--	-6.0	2.1	35.7	
182	29°00'38"	99°48'20"	Carrizo-Wilcox	--	4.6	.1	37.8	
182	29°00'35"	99°48'16"	Carrizo-Wilcox	--	-2.4	5.5	37.9	
182	28°55'58"	99°47'48"	--	--	10.4	3.1	43.4	
183	29°25'48"	99°59'40"	Edwards	--	-10.5	7.9	-4	0.4 mi above gaging station at Laguna (08190000)
183	29°20'50"	99°57'24"	Edwards	--	-46.0	1.3	7.5	
183	29°20'10"	99°56'46"	Edwards	--	-21.2	3.2	8.8	
183	29°16'47"	99°56'52"	--	--	0	7.6	12	
183	29°12'19"	99°54'05"	--	--	10.8	2.0	19.6	
183	29°10'51"	99°53'44"	Carrizo-Wilcox	--	7.6	6.0	21.6	
183	29°06'52"	99°52'54"	Carrizo-Wilcox	--	-7.1	2.8	27.6	
183	29°04'03"	99°51'00"	Carrizo-Wilcox	--	-2.5	5.3	30.4	
183	29°01'19"	99°48'52"	Carrizo-Wilcox	--	-8.8	2.1	35.7	
183	29°00'40"	99°48'23"	Carrizo-Wilcox	--	5.2	.1	37.8	
183	29°00'35"	99°48'16"	Carrizo-Wilcox	--	-3.8	5.5	37.9	
183	28°55'58"	99°47'49"	--	--	9.6	3.1	43.4	
184	29°25'48"	99°59'40"	Edwards	--	-10.8	7.9	-4	0.4 mi above gaging station at Laguna (08190000)
184	29°20'50"	99°57'24"	Edwards	--	-44.1	1.3	7.5	
184	29°20'10"	99°56'46"	Edwards	--	-5.4	3.2	8.8	
184	29°16'47"	99°56'52"	--	--	0	7.6	12	
184	29°12'19"	99°54'05"	--	--	8.2	2.0	19.6	
184	29°10'51"	99°53'44"	Carrizo-Wilcox	--	5.5	6.0	21.6	
184	29°06'52"	99°52'54"	Carrizo-Wilcox	--	-6.9	3.0	27.6	
184	29°03'55"	99°50'56"	Carrizo-Wilcox	--	-1.5	5.1	30.6	
184	29°01'19"	99°48'52"	Carrizo-Wilcox	--	-5.3	2.1	35.7	
184	29°00'40"	99°48'23"	Carrizo-Wilcox	--	.2	.1	37.8	
184	29°00'35"	99°48'16"	Carrizo-Wilcox	--	.1	5.5	37.9	
184	28°55'50"	99°47'43"	--	--	7.7	3.0	43.4	
185	29°25'48"	99°59'40"	Edwards	--	-11.6	7.9	-4	0.4 mi above gaging station at Laguna (08190000)
185	29°20'50"	99°57'24"	Edwards	--	-29.1	1.3	7.5	
185	29°20'10"	99°56'46"	Edwards	--	0	3.2	8.8	
185	29°16'47"	99°56'52"	--	--	0	7.6	12	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
185	29°12'19"	99°54'05"	--	--	7.0	2.0	19.6	
185	29°10'51"	99°53'44"	Carrizo-Wilcox	--	5.1	6.0	21.6	
185	29°06'52"	99°52'54"	Carrizo-Wilcox	--	-5.6	3.0	27.6	
185	29°03'55"	99°50'56"	Carrizo-Wilcox	--	-1.4	5.1	30.6	
185	29°01'19"	99°48'52"	Carrizo-Wilcox	--	0	2.2	35.7	
185	29°00'35"	99°48'16"	Carrizo-Wilcox	--	0	5.3	37.9	
185	28°55'58"	99°47'49"	--	--	7.7	3.3	43.2	
186	29°25'42"	99°59'47"	Edwards	--	-47.0	7.8	0	gaging station (08190000)
186	29°19'41"	99°56'51"	Edwards	--	-4.0	9.4	7.8	
186	29°14'38"	99°54'24"	--	--	-48.0	3.3	17.2	
186	29°12'19"	99°54'06"	--	--	11.0	2.7	20.5	
186	29°10'51"	99°53'39"	--	--	64.0	6.2	23.2	
187	29°43'14"	100°02'02"	Edwards-Trinity Plateau	--	-3.31	1.9	0	Barksdale - 100 ft below hwy
187	29°41'54"	100°01'48"	Edwards-Trinity Plateau	--	10.5	1.8	1.9	
187	29°40'20"	100°01'04"	Edwards-Trinity Plateau	--	-1.9	2.7	3.7	
187	29°38'38"	100°00'50"	Edwards-Trinity Plateau	--	0	2.0	6.4	
187	29°37'20"	100°00'46"	Edwards-Trinity Plateau	--	-4.3	3.9	8.4	
187	29°34'35"	99°59'52"	Edwards-Trinity Plateau	--	-6.4	1.5	12.3	
187	29°32'53"	99°59'38"	Edwards-Trinity Plateau	--	-15.7	.3	13.8	
187	29°32'47"	99°59'54"	Edwards-Trinity Plateau	--	1.5	.4	14.1	
187	29°32'22"	99°59'51"	Edwards-Trinity Plateau	--	-.5	.7	14.5	
187	29°32'04"	100°00'10"	Edwards-Trinity Plateau	--	9.0	.5	15.2	
187	29°31'56"	100°00'43"	Edwards-Trinity Plateau	--	-10.0	.5	15.7	
187	29°30'57"	100°01'26"	Edwards-Trinity Plateau	--	.8	.9	16.2	
187	29°31'12"	100°01'08"	Edwards-Trinity Plateau	--	6.7	1.4	17.1	
187	29°29'09"	100°01'04"	Edwards-Trinity Plateau	--	3.4	2.3	18.5	
187	29°28'40"	100°01'33"	Edwards-Trinity Plateau	--	7.4	2.5	20.8	
187	29°27'37"	99°59'52"	Edwards-Trinity Plateau	--	1.8	1.9	23.3	
188	29°43'14"	100°01'58"	Edwards-Trinity Plateau	--	3.68	1.9	0	Barksdale - 50 ft below hwy
188	29°41'54"	100°01'48"	Edwards-Trinity Plateau	--	14.1	1.8	1.9	
188	29°40'00"	100°01'44"	Edwards-Trinity Plateau	--	-.2	2.7	3.7	
188	29°38'38"	100°00'50"	Edwards-Trinity Plateau	--	2.5	2.0	6.4	
188	29°37'19"	100°00'46"	Edwards-Trinity Plateau	--	-7.0	3.9	8.4	
188	29°34'35"	99°59'52"	Edwards-Trinity Plateau	--	-8.0	1.5	12.3	
188	29°32'55"	99°59'39"	Edwards-Trinity Plateau	--	-19.3	.3	13.8	
188	29°32'47"	99°59'54"	Edwards-Trinity Plateau	--	1.5	.4	14.1	
188	29°32'22"	99°59'51"	Edwards-Trinity Plateau	--	1.5	.7	14.5	
188	29°32'04"	100°00'10"	Edwards-Trinity Plateau	--	12.0	.5	15.2	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
188	29°31'58"	100°00'39"	Edwards-Trinity Plateau	--	-15.0	0.5	15.7	
188	29°31'48"	100°00'57"	Edwards-Trinity Plateau	--	1.5	.9	16.2	
188	29°31'12"	100°01'08"	Edwards-Trinity Plateau	--	2.5	.2	17.1	
188	29°31'04"	100°01'22"	Edwards-Trinity Plateau	--	16.0	.3	17.3	
188	29°30'52"	100°01'30"	Edwards-Trinity Plateau	--	-8.0	.9	17.6	
188	29°29'09"	100°01'04"	Edwards-Trinity Plateau	--	6.7	2.3	18.5	
188	29°28'40"	100°01'30"	Edwards-Trinity Plateau	--	8.9	2.5	20.8	
188	29°27'37"	99°59'52"	Edwards-Trinity Plateau	--	2.4	1.9	23.3	
189	29°43'14"	100°01'58"	Edwards-Trinity Plateau	--	-.5	1.8	0	Barksdale - 600 ft below hwy
189	29°42'02"	100°01'44"	Edwards-Trinity Plateau	--	19.2	1.9	1.8	
189	29°40'19"	100°01'04"	Edwards-Trinity Plateau	--	12.2	3.0	3.7	
189	29°38'38"	100°00'50"	Edwards-Trinity Plateau	--	4.1	2.5	6.7	
189	29°37'19"	100°00'46"	Edwards-Trinity Plateau	--	-3.6	2.9	9.2	
189	29°34'35"	99°59'52"	Edwards-Trinity Plateau	--	-15.1	1.7	12.1	
189	29°32'55"	99°59'39"	Edwards-Trinity Plateau	--	-30.3	.3	13.8	
189	29°32'47"	99°59'54"	Edwards-Trinity Plateau	--	-10.7	.6	14.1	
189	29°32'22"	99°59'51"	Edwards-Trinity Plateau	--	10.0	.8	14.7	
189	29°32'04"	100°00'10"	Edwards-Trinity Plateau	--	10.0	1.0	15.5	
189	29°31'48"	100°00'57"	Edwards-Trinity Plateau	--	-25.0	.4	16.5	
189	29°31'16"	100°01'04"	Edwards-Trinity Plateau	--	-5.0	.3	16.9	
189	29°31'07"	100°01'19"	Edwards-Trinity Plateau	--	35.8	.2	17.2	
189	29°30'52"	100°01'30"	Edwards-Trinity Plateau	--	-8.7	3.4	17.4	
189	29°28'40"	100°01'30"	Edwards-Trinity Plateau	--	15.5	2.5	20.8	
189	29°27'37"	99°59'52"	Edwards-Trinity Plateau	--	10.3	1.9	23.3	
190	27°59'12"	97°48'00"	Gulf Coast	--	-9	1.9	9.8	gaging station (08211100)
190	27°58'23"	97°48'54"	Gulf Coast	--	2.4	1.0	11.7	
190	27°57'25"	97°48'33"	Gulf Coast	--	-.5	1.5	12.7	
190	27°56'29"	97°48'20"	Gulf Coast	--	2.0	4.0	14.2	
191	29°55'40"	100°00'25"	Edwards-Trinity Plateau	--	-.1	1.5	0	just below Odley Creek near Vance
191	29°53'10"	100°01'08"	Edwards-Trinity Plateau	--	43.0	6.8	1.5	
191	29°48'37"	100°00'57"	Edwards-Trinity Plateau	--	-15.9	5.9	8.3	
191	29°43'14"	100°01'58"	Edwards-Trinity Plateau	--	86.8	3.9	14.2	
191	29°40'40"	100°01'08"	Edwards-Trinity Plateau	--	-47.3	11.3	18.1	
191	29°31'16"	100°01'04"	Edwards-Trinity Plateau	--	63.1	7.8	29.4	
191	29°27'39"	99°59'54"	Edwards-Trinity Plateau	--	7.0	3.0	37.2	
191	29°25'41"	99°59'48"	Edwards, Edwards-Trinity Plateau	--	-34.0	5.1	40.2	
191	29°22'32"	99°59'54"	Edwards	--	8.0	4.0	45.3	
191	29°20'50"	99°57'24"	Edwards	--	-58.3	2.5	49.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
191	29°17'00"	99°56'53"	--	--	-30.1	4.5	51.8	
191	29°14'37"	99°54'24"	--	--	-33.4	2.8	56.3	
191	29°11'52"	99°54'17"	--	--	21.6	2.0	59.1	
191	29°10'51"	99°53'44"	--	--	.9	1.6	61.1	
191	29°09'05"	99°54'59"	Carrizo-Wilcox	--	13.9	3.9	62.7	
191	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-8.4	3.0	66.6	
191	29°04'44"	99°52'17"	Carrizo-Wilcox	--	3.0	4.8	69.6	
192	28°25'33"	99°14'22"	--	--	0	7.4	221.8	gaging station (08194000) at Cotulla
192	28°22'18"	99°11'40"	--	--	-19.7	8.8	214.4	
192	28°18'02"	99°08'20"	--	--	7.5	11.2	205.6	
192	28°14'06"	99°04'05"	--	--	2.8	3.7	194.4	
192	28°12'02"	99°03'20"	--	--	2.4	4.3	190.7	
192	28°09'36"	99°02'04"	--	--	-1.3	33.0	186.4	
192	28°11'57"	98°41'48"	--	--	7.9	15.0	153.4	
192	28°18'30"	98°33'24"	--	--	3.0	9.3	138.4	
192	28°20'12"	98°26'24"	Gulf Coast	--	5.0	15.4	129.1	
193	28°25'33"	99°14'22"	--	--	-5	7.4	221.8	gaging station (08194000)
193	28°22'18"	99°11'40"	--	--	-7.0	8.8	214.4	
193	28°18'02"	99°08'20"	--	--	1.2	11.2	205.6	
193	28°14'06"	99°04'05"	--	--	4.6	8.0	194.4	
193	28°09'36"	99°02'04"	--	--	.09	17.1	186.4	
193	28°05'47"	98°51'00"	--	--	3.1	15.9	169.3	
193	28°11'57"	98°41'48"	--	--	2.3	15.0	153.4	
193	28°18'30"	98°33'24"	--	--	6.5	9.3	138.4	gaging station (08194500)
193	28°20'12"	98°26'24"	Gulf Coast	--	-1.0	15.4	129.1	
194	29°25'48"	99°59'40"	Edwards	--	-9	.4	-.2	1,200 ft above gaging station at Laguna (08190000)
194	29°25'29"	99°59'50"	Edwards	--	-4.1	1.6	.2	
194	29°23'52"	99°59'58"	Edwards	--	-3.8	1.8	1.8	
194	29°23'06"	100°00'21"	Edwards	--	-12.2	3.0	3.6	
194	29°21'34"	99°58'13"	Edwards	--	4.5	1.0	6.6	
194	29°20'50"	99°57'17"	Edwards	--	-10.1	.6	7.6	
194	29°20'10"	99°56'46"	Edwards	--	0	3.8	8.2	
194	29°17'18"	99°56'56"	--	--	0	4.9	12	
194	29°14'38"	99°54'25"	--	--	0	2.7	16.9	
194	29°12'19"	99°54'05"	--	--	0	1.0	19.6	
194	29°11'38"	99°54'19"	--	--	8.9	1.0	20.6	
194	29°10'51"	99°53'44"	--	--	1.1	1.0	21.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
194	29°09'05"	99°54'59"	--	--	-3.0	2.0	22.6	
194	29°08'53"	99°53'52"	Carrizo-Wilcox	--	4.3	2.0	24.6	
194	29°07'24"	99°53'38"	Carrizo-Wilcox	--	-1.6	1.0	26.6	
194	29°06'52"	99°52'54"	Carrizo-Wilcox	--	-4.7	3.0	27.6	
194	29°03'55"	99°50'56"	Carrizo-Wilcox	--	-2	5.1	30.6	
194	29°01'56"	99°49'46"	Carrizo-Wilcox	--	-4.2	2.3	35.7	
194	29°00'31"	99°48'12"	Carrizo-Wilcox	--	-1.1	5.2	38	
194	28°55'58"	99°47'49"	--	--	7.0	3.3	43.2	
194	28°53'40"	99°47'15"	--	--	-2.2	3.5	46.5	
194	28°51'57"	99°46'57"	--	--	0	3.6	50	
194	28°50'35"	99°47'34"	--	--	-1	3.3	53.6	
194	28°49'27"	99°47'12"	--	--	-1.3	4.5	56.9	
195	29°25'41"	99°59'48"	Edwards	--	-21.2	6.2	0	gaging station at Laguna (08190000)
195	29°21'37"	99°58'59"	Edwards	--	-28.1	4.2	6.2	
195	29°19'17"	99°57'03"	Edwards	--	-14.9	2.6	10.4	
195	29°17'18"	99°56'55"	--	--	0	5.0	13	
195	29°14'37"	99°54'24"	--	--	0	2.6	18	
195	29°12'19"	99°54'05"	--	--	9.0	2.1	20.6	
195	29°07'24"	99°53'38"	--	--	7.8	5.5	22.7	
195	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-4.1	3.4	28.2	
195	29°04'42"	99°52'18"	Carrizo-Wilcox	--	-8.7	8.0	31.6	
196	29°25'41"	99°59'48"	Edwards	--	-17.8	6.2	0	gaging station at Laguna (08190000)
196	29°21'35"	99°58'57"	Edwards	--	-23.3	4.2	6.2	
196	29°19'17"	99°57'03"	Edwards	--	-22.9	2.6	10.4	
196	29°17'18"	99°56'56"	--	--	0	5.0	13	
196	29°14'37"	99°54'24"	--	--	0	2.6	18	
196	29°12'19"	99°54'05"	--	--	8.1	2.1	20.6	
196	29°07'24"	99°53'38"	--	--	6.3	5.5	22.7	
196	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-1.6	3.4	28.2	
196	29°04'44"	99°52'17"	Carrizo-Wilcox	--	-4.5	4.7	31.6	
196	29°01'55"	99°49'48"	Carrizo-Wilcox	--	-3.8	3.3	36.3	
197	29°25'42"	99°59'47"	Edwards	--	-21.8	5.1	0	gaging station at Laguna (08190000)
197	29°22'33"	99°59'57"	Edwards	--	-13.5	13.8	5.1	
197	29°15'08"	99°55'55"	--	--	4.3	2.0	18.9	
197	29°12'19"	99°54'05"	--	--	-2.8	1.9	20.9	
197	29°09'05"	99°54'59"	--	--	7.5	4.0	22.8	
197	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-6.2	3.0	26.8	
197	29°04'43"	99°52'17"	Carrizo-Wilcox	--	-2.8	1.8	29.8	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
197	29°03'56"	99°50'57"	Carrizo-Wilcox	--	0.5	2.9	31.6	
197	29°02'43"	99°50'03"	Carrizo-Wilcox	--	0	.1	34.5	
197	29°01'57"	99°49'46"	Carrizo-Wilcox	--	-.5	6.1	34.6	
197	28°57'57"	99°47'48"	--	--	0	2.5	40.7	
197	28°54'59"	99°47'28"	--	--	8.0	4.2	43.2	
197	28°53'40"	99°47'15"	--	--	-2.6	7.5	47.4	
198	29°25'41"	99°59'47"	Edwards	--	-57.0	13.0	0	gaging station at Laguna (08190000)
198	29°17'19"	99°56'56"	--	--	-37.0	5.0	13	
198	29°14'38"	99°54'24"	--	--	-23.0	2.6	18	
198	29°12'20"	99°54'07"	--	--	20.0	2.1	20.6	
198	29°07'24"	99°53'37"	--	--	10.0	5.5	22.7	
198	29°07'15"	99°53'28"	Carrizo-Wilcox	--	-2.0	3.4	28.2	
198	29°04'43"	99°52'17"	Carrizo-Wilcox	--	-6.0	4.7	31.6	
198	29°03'55"	99°50'57"	Carrizo-Wilcox	--	-2.0	3.3	36.3	
198	29°02'29"	99°50'07"	Carrizo-Wilcox	--	-11.0	5.2	39.6	
198	28°55'58"	99°47'48"	--	--	32.0	11.7	44.8	
199	29°25'38"	99°59'43"	Edwards	--	-5.0	10.4	0	gaging station at Laguna (08190000)
199	29°19'11"	99°56'59"	Edwards	--	-30.0	2.6	10.4	
199	29°17'10"	99°56'52"	--	--	-41.0	5.0	13	
199	29°14'36"	99°54'16"	--	--	-31.4	2.6	18	
199	29°12'11"	99°54'04"	--	--	29.4	2.1	20.6	
199	29°07'05"	99°53'39"	Carrizo-Wilcox	--	4.0	8.9	22.7	
199	29°04'50"	99°52'21"	Carrizo-Wilcox	--	-7.0	8.0	31.6	
199	29°02'26"	99°50'07"	Carrizo-Wilcox	--	-4.0	5.2	39.6	
199	28°55'54"	99°47'46"	--	--	1.0	8.2	44.8	
200	29°25'41"	99°59'42"	Edwards	--	-16.0	10.4	0	gaging station at Laguna (08190000)
200	29°19'09"	99°57'08"	Edwards	--	-34.0	2.6	10.4	
200	29°17'05"	99°56'54"	--	--	-36.3	5.0	13	
200	29°14'39"	99°54'22"	--	--	-23.1	2.6	18	
200	29°12'05"	99°54'12"	--	--	17.1	2.1	20.6	
200	29°07'07"	99°53'35"	--	--	17.5	5.5	22.7	
200	29°07'15"	99°53'24"	Carrizo-Wilcox	--	-5.5	3.4	28.2	
200	29°04'43"	99°52'17"	Carrizo-Wilcox	--	-10.6	8.0	31.6	
200	29°02'27"	99°50'07"	Carrizo-Wilcox	--	-4.7	5.2	39.6	
200	28°55'58"	99°47'49"	--	--	8.6	8.2	44.8	
200	28°51'56"	99°46'56"	--	--	13.4	3.5	53	
201	29°25'40"	99°59'48"	Edwards	--	-14.0	10.4	0	gaging station at Laguna (08190000)
201	29°19'15"	99°57'04"	Edwards	--	-39.9	2.6	10.4	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
201	29°17'18"	99°56'56"	--	--	-40.7	5.0	13	
201	29°14'37"	99°54'24"	--	--	-21.9	2.6	18	
201	29°12'19"	99°54'05"	--	--	18.7	2.1	20.6	
201	29°07'24"	99°53'38"	--	--	17.0	5.5	22.7	
201	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-7.1	3.4	28.2	
201	29°04'43"	99°52'18"	Carrizo-Wilcox	--	-9.2	8.0	31.6	
201	29°00'30"	99°48'12"	Carrizo-Wilcox	--	-7.7	5.2	39.6	
201	28°55'59"	99°47'48"	--	--	12.1	8.2	44.8	
201	28°51'57"	99°46'57"	--	--	.8	3.5	53	
202	29°25'41"	99°59'48"	Edwards	--	-17.0	10.4	0	gaging station at Laguna (08190000)
202	29°19'20"	99°57'02"	Edwards	--	-37.2	2.6	10.4	
202	29°17'18"	99°56'53"	--	--	-36.3	5.0	13	
202	29°14'41"	99°54'22"	--	--	-21.2	2.6	18	
202	29°12'20"	99°54'05"	--	--	20.6	2.1	20.6	
202	29°07'24"	99°53'38"	--	--	17.0	5.5	22.7	
202	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-4.3	3.4	28.2	
202	29°04'43"	99°52'18"	Carrizo-Wilcox	--	-10.0	8.0	31.6	
202	29°00'30"	99°48'12"	Carrizo-Wilcox	--	-5.4	5.2	39.6	
202	28°55'58"	99°47'48"	--	--	11.6	8.2	44.8	
202	28°51'56"	99°46'57"	--	--	-.3	3.5	53	
203	29°25'40"	99°59'48"	Edwards	--	4.0	6.2	0	gaging station at Laguna (08190000)
203	29°21'39"	99°58'57"	Edwards	--	-5.0	4.2	6.2	
203	29°19'18"	99°57'04"	Edwards	--	-78.0	12.3	10.4	
204	29°25'36"	99°59'44"	Edwards	--	-29.5	10.4	0	gaging station at Laguna (08190000)
204	29°19'17"	99°57'06"	Edwards	--	-32.9	2.6	10.4	
204	29°17'18"	99°56'52"	--	--	-31.9	5.0	13	
204	29°14'36"	99°54'23"	--	--	-3.1	2.6	18	
204	29°12'15"	99°54'06"	--	--	20.1	2.1	20.6	
205	29°25'39"	99°59'49"	Edwards	--	-11.9	6.2	0	gaging station at Laguna (08190000)
205	29°21'37"	99°58'59"	Edwards	--	-16.1	4.2	6.2	
205	29°19'13"	99°57'04"	Edwards	--	-38.7	2.6	10.4	
205	29°17'16"	99°56'51"	--	--	-25.1	7.6	13	
205	29°12'17"	99°54'07"	--	--	18.8	2.1	20.6	
206	29°25'41"	99°59'48"	Edwards	--	3.0	6.2	0	gaging station at Laguna (08190000)
206	29°21'37"	99°58'59"	Edwards	--	51.0	4.2	6.2	
206	29°19'17"	99°57'03"	Edwards	--	-58.0	2.6	10.4	
206	29°17'18"	99°56'55"	--	--	-22.0	5.0	13	
206	29°14'37"	99°54'24"	--	--	0	2.6	18	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
206	29°12'19"	99°54'05"	--	--	33.0	2.1	20.6	
206	29°07'24"	99°53'38"	--	--	11.0	5.5	22.7	
206	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-13.0	3.4	28.2	
206	29°04'44"	99°52'17"	Carrizo-Wilcox	--	7.0	4.7	31.6	
206	29°01'57"	99°49'46"	Carrizo-Wilcox	--	-10.0	3.3	36.3	
206	29°00'31"	99°48'12"	Carrizo-Wilcox	--	-2.0	5.2	39.6	
206	28°55'58"	99°47'49"	--	--	11.0	8.2	44.8	
206	28°51'57"	99°46'57"	--	--	17.0	3.5	53	
207	29°25'41"	99°59'48"	Edwards	--	-.2	7.8	0	gaging station at Laguna (08190000)
207	29°21'29"	99°58'03"	Edwards	--	-22.9	2.6	7.8	
207	29°19'17"	99°57'03"	Edwards	--	0	2.6	10.4	
207	29°17'18"	99°56'55"	--	--	0	5.0	13	
207	29°14'37"	99°54'24"	--	--	0	2.6	18	
207	29°12'19"	99°54'05"	--	--	16.3	2.1	20.6	
207	29°07'24"	99°53'38"	--	--	4.3	5.5	22.7	
207	29°07'09"	99°53'15"	Carrizo-Wilcox	--	-4.3	3.4	28.2	
207	29°04'44"	99°52'17"	Carrizo-Wilcox	--	-5.0	4.7	31.6	
207	29°01'57"	99°49'46"	Carrizo-Wilcox	--	-4.1	3.3	36.3	
207	29°00'31"	99°48'12"	Carrizo-Wilcox	--	-3.1	5.2	39.6	
207	28°55'58"	99°47'49"	--	--	9.8	8.2	44.8	
207	28°51'57"	99°46'57"	--	--	.5	3.5	53	
208	29°25'41"	99°59'48"	Edwards	--	-62.2	10.4	0	gaging station at Laguna (08190000)
208	29°19'17"	99°57'03"	Edwards	--	-16.6	2.6	10.4	
208	29°17'18"	99°56'55"	--	--	-25.0	5.0	13	
208	29°14'37"	99°54'25"	--	--	-7.4	2.6	18	
208	29°12'19"	99°54'05"	--	--	19.1	2.1	20.6	
208	29°07'24"	99°53'38"	--	--	9.4	5.5	22.7	
208	29°07'09"	99°53'15"	Carrizo-Wilcox	--	2.5	3.4	28.2	
209	28°02'16"	97°51'36"	Gulf Coast	--	-4.7	1.0	0	gaging station near Mathis (08211000)
209	28°02'10"	97°50'45"	Gulf Coast	--	4.4	1.6	1	
209	28°02'21"	97°49'09"	Gulf Coast	--	-1.8	2.4	2.6	
209	28°02'14"	97°48'02"	Gulf Coast	--	-.2	2.0	5	
209	28°00'52"	97°47'22"	Gulf Coast	--	.4	1.9	7	
209	27°59'43"	97°47'53"	Gulf Coast	--	2.4	2.0	8.9	
209	27°58'18"	97°48'31"	Gulf Coast	--	-1.8	2.5	10.9	
209	27°56'32"	97°48'20"	Gulf Coast	--	1.9	2.3	13.4	
209	27°56'25"	97°47'44"	Gulf Coast	--	.6	2.4	15.7	
209	27°56'33"	97°47'36"	Gulf Coast	--	1.5	1.8	18.1	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of subreach (river mi)	Descriptive location of upstream end of selected subreaches
209	27°56'14"	97°46'19"	Gulf Coast	--	-2.4	3.7	19.9	
209	27°54'46"	97°43'40"	Gulf Coast	--	-1.0	1.9	23.6	
210	29°07'18"	99°53'44"	Carrizo-Wilcox	--	16.1	5.5	0	gaging station at Laguna (08190000)
210	29°07'07"	99°53'10"	Carrizo-Wilcox	--	-4.6	3.4	5.5	
210	29°04'44"	99°52'17"	Carrizo-Wilcox	--	-11.1	8.0	8.9	
210	29°00'31"	99°48'11"	Carrizo-Wilcox	--	-6.4	5.2	16.9	
210	28°55'58"	99°47'50"	--	--	11.9	8.2	22.1	
210	28°51'50"	99°46'55"	--	--	-1.9	3.5	30.3	
211	28°26'13"	98°11'19"	Gulf Coast	--	33.4	.67	9.25	at Miller's Ranch
211	28°26'09"	98°11'06"	Gulf Coast	--	3.7	.78	9.92	
211	28°25'39"	98°10'44"	Gulf Coast	--	-3.4	6.1	10.7	
211	28°24'53"	98°06'12"	Gulf Coast	--	-1.3	5.7	16.8	
211	28°21'58"	98°06'50"	Gulf Coast	--	33.49	3.2	22.5	
212	28°02'12"	97°51'05"	Gulf Coast	--	-8.0	2.8	0	gaging station (08211000)
212	28°02'25"	97°49'08"	Gulf Coast	--	1.0	1.7	2.8	
212	28°01'56"	97°47'57"	Gulf Coast	--	0	2.1	4.5	
212	28°00'50"	97°47'28"	Gulf Coast	--	2.0	2.1	6.6	
212	27°59'11"	97°48'00"	Gulf Coast	--	0	2.1	8.7	
212	27°58'10"	97°49'01"	Gulf Coast	--	-7.0	2.6	10.8	
212	27°56'29"	97°48'29"	Gulf Coast	--	-2.0	1.0	13.4	
212	27°56'07"	97°47'55"	Gulf Coast	--	0	2.2	14.4	
212	27°56'35"	97°46'39"	Gulf Coast	--	1.0	1.6	16.6	
212	27°56'02"	97°45'44"	Gulf Coast	--	-3.0	2.0	18.2	
212	27°55'00"	97°45'03"	Gulf Coast	--	2.0	2.8	20.2	
212	27°54'40"	97°44'07"	Gulf Coast	--	-1.0	2.8	23	
213	28°02'16"	97°51'36"	Gulf Coast	--	-6.0	1.2	0	gaging station (08211000)
213	28°02'09"	97°50'38"	Gulf Coast	--	5.0	.8	1.2	
213	28°02'10"	97°49'44"	Gulf Coast	--	0	.8	2	
213	28°02'17"	97°49'29"	Gulf Coast	--	2.0	7.7	2.8	
213	27°58'24"	97°48'48"	Gulf Coast	--	-6.0	1.2	10.5	
213	27°57'32"	97°48'37"	Gulf Coast	--	0	2.5	11.7	
214	28°02'16"	97°51'36"	Gulf Coast	--	-8.0	1.7	0	gaging station (08211000)
214	28°02'08"	97°50'05"	Gulf Coast	--	3.7	2.3	1.7	
214	28°02'25"	97°48'42"	Gulf Coast	--	-2.01	2.6	4	
214	28°01'08"	97°47'23"	Gulf Coast	--	-3.0	2.5	6.6	
214	27°59'36"	97°47'56"	Gulf Coast	--	8.0	.7	9.1	
214	27°58'52"	97°48'06"	Gulf Coast	--	0	1.0	9.8	gaging station (08211100)
214	27°58'21"	97°48'35"	Gulf Coast	--	-7.0	1.9	10.8	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
214	27°57'21"	97°48'34"	Gulf Coast	--	2.0	1.8	12.7	
214	27°56'28"	97°48'33"	Gulf Coast	--	4.0	2.0	14.5	
214	27°56'29"	97°47'43"	Gulf Coast	--	-6.0	1.7	16.5	
214	27°56'33"	97°46'37"	Gulf Coast	--	0	2.3	18.2	
215	28°02'16"	97°51'36"	Gulf Coast	--	1.92	1.7	0	gaging station (08211000)
215	28°02'08"	97°50'04"	Gulf Coast	--	2.0	2.3	1.7	
215	28°02'16"	97°49'30"	Gulf Coast	--	-1.04	2.6	4	
215	28°01'06"	97°47'24"	Gulf Coast	--	3.0	2.5	6.6	
215	27°59'35"	97°47'57"	Gulf Coast	--	-2.0	.7	9.1	
215	27°58'50"	97°48'06"	Gulf Coast	--	0	1.0	9.8	gaging station (08211100)
215	27°58'20"	97°48'34"	Gulf Coast	--	-3.0	1.9	10.8	
215	27°57'21"	97°48'34"	Gulf Coast	--	2.0	1.8	12.7	
215	27°56'29"	97°48'33"	Gulf Coast	--	4.0	2.0	14.5	
215	27°56'29"	97°47'44"	Gulf Coast	--	-3.0	1.7	16.5	
215	27°56'32"	97°46'36"	Gulf Coast	--	-8.0	2.3	18.2	
216	29°48'37"	100°00'57"	Edwards-Trinity Plateau	--	0	5.9	8.3	near Vance
216	29°43'14"	100°02'02"	Edwards-Trinity Plateau	--	20.0	3.9	14.2	
216	29°40'40"	100°01'08"	Edwards-Trinity Plateau	--	-20.0	11.3	18.1	
216	29°31'16"	100°01'04"	Edwards-Trinity Plateau	--	24.0	7.8	29.4	
216	29°27'39"	99°59'54"	Edwards-Trinity Plateau	--	-6.9	3.0	37.2	
216	29°25'41"	99°59'48"	Edwards, Edwards-Trinity Plateau	--	-17.1	5.1	40.2	gaging station at Laguna (08190000)
216	29°22'32"	99°59'54"	Edwards	--	0	6.5	45.3	
216	29°20'51"	99°57'20"	Edwards	--	0	4.5	51.8	
216	29°14'37"	99°54'25"	--	--	0	2.8	56.3	
216	29°11'52"	99°54'17"	--	--	27.0	2.0	59.1	
216	29°10'51"	99°53'45"	Carrizo-Wilcox	--	-6.0	13.3	61.1	
217	29°14'37"	99°54'25"	--	--	25.2	2.0	59.1	at Old Spanish Trail crossing
217	29°10'51"	99°53'44"	--	--	1.6	1.6	61.1	
218	29°43'14"	100°02'02"	Edwards-Trinity Plateau	--	-31.1	5.7	8.4	500 ft below county line
218	29°32'53"	99°59'39"	Edwards-Trinity Plateau	--	17.8	6.7	14.1	
218	29°28'40"	100°01'30"	Edwards-Trinity Plateau	--	11.7	4.4	20.8	
219	29°12'21"	99°54'07"	--	--	16.6	2.8	0	at US 90
219	29°10'51"	99°53'44"	Carrizo-Wilcox	--	19.6	6.6	2.8	
219	29°07'08"	99°53'13"	Carrizo-Wilcox	--	-4.5	3.4	9.4	
219	29°04'43"	99°52'22"	Carrizo-Wilcox	--	.8	5.6	12.8	
219	29°02'05"	99°50'06"	Carrizo-Wilcox	--	1.1	.6	18.4	
219	29°01'43"	99°49'26"	Carrizo-Wilcox	--	-21.9	2.8	19	
219	29°00'08"	99°47'56"	Carrizo-Wilcox	--	-11.7	2.9	21.8	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
219	28°56'55"	99°47'20"	--	--	7.9	5.2	24.7	
219	28°54'00"	99°47'14"	--	--	5.5	22.3	29.9	
220	29°36'03"	99°31'41"	Trinity	--	4.3	3.0	0	1 mi south of Utopia
220	29°34'03"	99°31'10"	Trinity	--	8.5	5.0	3	
220	29°30'44"	99°30'43"	Trinity	--	-4	2.0	8	just below mouth of Onion Creek
220	29°29'54"	99°29'47"	Edwards, Trinity	--	-10.0	2.0	10	
220	29°28'16"	99°29'34"	Edwards	--	-35.1	5.5	12	
221	29°49'49"	99°34'06"	Edwards-Trinity Plateau	--	.3	1.3	0	8.2 mi above Vanderpool
221	29°49'07"	99°34'13"	Edwards-Trinity Plateau, Trinity	--	2.24	2.9	1.3	
221	29°47'36"	99°34'35"	Trinity	--	2.99	4.7	4.2	
221	29°43'39"	99°32'48"	Trinity	--	12.17	.6	8.9	
221	29°41'38"	99°33'09"	Trinity	--	-2	2.5	9.5	
221	29°39'48"	99°32'32"	Trinity	--	-44.7	2.6	12	
221	29°37'55"	99°32'10"	Trinity	--	39.4	3.3	14.6	
221	29°37'55"	99°32'10"	Trinity	--	0	.3	17.9	
221	29°37'40"	99°32'02"	Trinity	--	3.3	3.4	18.2	
221	29°35'49"	99°31'50"	Trinity	--	2.9	3.0	21.6	
221	29°33'56"	99°30'17"	Trinity	--	8.9	4.5	24.6	
221	29°30'50"	99°30'37"	Trinity	--	2.1	2.3	29.1	
221	29°29'26"	99°29'32"	Edwards	--	-12.7	1.8	31.4	near Sabinal gaging station (08198500)
221	29°28'16"	99°29'34"	Edwards	--	-12.3	2.2	33.2	
221	29°27'05"	99°30'55"	Edwards	--	-29.8	3.6	35.4	
221	29°24'40"	99°29'38"	--	--	-3.2	3.4	39	
221	29°22'53"	99°29'17"	--	--	-1.6	3.4	42.4	
221	29°20'25"	99°28'48"	--	--	-1.4	3.2	45.8	
222	29°49'49"	99°34'06"	Edwards-Trinity Plateau, Trinity	--	.2	1.2	0	8.2 mi above Vanderpool
222	29°48'54"	99°34'18"	Trinity	--	.76	3.0	1.2	
222	29°47'36"	99°34'35"	Trinity	--	-0.9	4.0	4.2	
222	29°44'39"	99°33'14"	Trinity	--	-0.6	1.2	8.2	
222	29°43'44"	99°32'52"	Trinity	--	-1.84	.9	9.4	
222	29°43'07"	99°32'53"	Trinity	--	.5	1.3	10.3	
222	29°41'59"	99°33'02"	Trinity	--	.25	.9	11.6	
222	29°41'20"	99°32'59"	Trinity	--	-0.75	.7	12.5	
222	29°40'47"	99°32'50"	Trinity	--	.5	1.2	13.2	
222	29°39'48"	99°32'32"	Trinity	--	-0.5	.4	14.4	
222	29°39'49"	99°32'08"	Trinity	--	0	.9	14.8	
222	29°39'16"	99°32'00"	Trinity	--	0	2.2	15.7	
222	29°37'47"	99°32'03"	Trinity	--	-0.5	1.1	17.9	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
222	29°36'43"	99°31'44"	Trinity	--	0.5	5.5	19	
222	29°33'56"	99°30'17"	Trinity	--	-.5	1.0	24.5	
222	29°33'08"	99°30'06"	Trinity	--	.5	3.3	25.5	
222	29°31'04"	99°30'25"	Trinity	--	-.5	2.6	28.8	
223	29°49'49"	99°34'06"	Edwards-Trinity Plateau, Trinity	--	0	1.2	0	8.2 mi above Vanderpool
223	29°48'54"	99°34'18"	Trinity	--	.26	3.0	1.2	
223	29°47'36"	99°34'35"	Trinity	--	-.08	4.0	4.2	
223	29°44'39"	99°33'14"	Trinity	--	-.05	1.2	8.2	
223	29°43'44"	99°32'52"	Trinity	--	-.4	.9	9.4	
223	29°43'07"	99°32'53"	Trinity	--	.1	1.3	10.3	
223	29°41'59"	99°33'02"	Trinity	--	.05	.9	11.6	
223	29°41'20"	99°32'59"	Trinity	--	-.15	.7	12.5	
223	29°40'47"	99°32'50"	Trinity	--	.3	1.2	13.2	
223	29°39'48"	99°32'32"	Trinity	--	-.2	.4	14.4	
223	29°39'49"	99°32'08"	Trinity	--	-.1	.9	14.8	
223	29°39'16"	99°32'00"	Trinity	--	0	2.2	15.7	
223	29°37'55"	99°32'10"	Trinity	--	-.81	1.1	17.9	
223	29°36'43"	99°31'44"	Trinity	--	.3	5.5	19	
223	29°33'56"	99°30'17"	Trinity	--	-.3	1.0	24.5	
223	29°33'08"	99°30'06"	Trinity	--	.1	3.3	25.5	
223	29°31'04"	99°30'25"	Trinity	--	-.1	2.6	28.8	
224	29°36'12"	99°31'33"	Trinity	--	2.84	7.0	0	0.8 mi below Utopia
224	29°30'21"	99°30'51"	Trinity	--	-1.36	10.5	7	
224	29°21'00"	99°28'50"	--	--	-.56	.5	17.5	
225	29°30'46"	99°30'43"	Trinity	--	-.5	2.0	0	just below Onion Creek
225	29°29'38"	99°29'47"	Edwards, Trinity	--	-8.8	2.0	2	
225	29°28'16"	99°29'34"	Edwards	--	-23.0	5.5	4	
226	29°30'45"	99°30'43"	Trinity	--	-3.52	2.0	0	just below Onion Creek
226	29°29'38"	99°29'47"	Edwards, Trinity	--	-3.03	2.0	2	
226	29°28'16"	99°29'34"	Edwards	--	0	5.5	4	
227	29°29'35"	99°29'48"	--	--	-51.9	5.3	0	gaging station (08190000)
227	29°25'57"	99°31'01"	--	--	-30.3	6.0	5.3	
227	29°22'49"	99°29'04"	--	--	0	7.8	11.3	
228	29°29'35"	99°29'48"	--	--	-40.1	5.3	0	gaging station (90819000)
228	29°25'57"	99°31'01"	--	--	-49.4	6.0	5.3	
228	29°22'49"	99°29'04"	--	--	-1.7	7.8	11.3	
229	29°34'23"	99°24'10"	Trinity	--	-19.0	1.3	0	gaging station (08201500)
229	29°33'25"	99°24'18"	Trinity	--	42.0	2.5	1.3	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
229	29°31'42"	99°23'44"	Edwards, Trinity	--	-56.0	1.1	3.8	
229	29°30'57"	99°23'04"	Edwards	--	-108.35	11.4	4.9	
229	29°26'21"	99°17'04"	--	--	-23.0	3.2	16.3	
229	29°24'03"	99°16'57"	--	--	-3.0	3.4	19.5	
230	29°34'23"	99°24'10"	Trinity	--	-21.0	1.3	0	gaging station (08201500)
230	29°33'25"	99°24'18"	Trinity	--	34.0	2.5	1.3	
230	29°31'42"	99°23'44"	Edwards, Trinity	--	18.0	1.1	3.8	
230	29°30'57"	99°23'04"	Edwards	--	-134.2	11.4	4.9	
230	29°26'21"	99°17'04"	--	--	-34.0	3.2	16.3	
230	29°24'03"	99°16'57"	--	--	-22.0	3.4	19.5	
231	29°34'23"	99°24'10"	Trinity	--	-9.0	1.3	0	gaging station (08201500)
231	29°33'25"	99°24'18"	Trinity	--	18.0	2.5	1.3	
231	29°31'42"	99°23'44"	Edwards, Trinity	--	-9.0	1.1	3.8	
231	29°30'57"	99°23'04"	Edwards	--	-139.2	11.4	4.9	
231	29°26'21"	99°17'04"	--	--	-24.0	3.2	16.3	
231	29°24'03"	99°16'57"	--	--	-7.0	3.4	19.5	
232	29°22'12"	99°17'17"	--	--	-35.0	2.1	19.7	gaging station (08202500)
232	29°21'54"	99°17'18"	--	--	-65.0	.5	21.8	estimate
232	29°21'58"	99°17'08"	--	--	45.0	1.9	22.3	
232	29°21'51"	99°16'52"	--	--	-15.0	.7	24.2	estimate
232	29°21'41"	99°16'58"	--	--	0	1.3	24.9	estimate
232	29°21'24"	99°16'49"	--	--	-30.0	.8	26.2	estimate
232	29°21'12"	99°16'53"	--	--	0	1.2	27	
232	29°21'14"	99°17'15"	--	--	0	4.6	28.2	
232	29°20'19"	99°17'48"	--	--	1.5	3.2	32.8	
232	29°19'55"	99°17'33"	--	--	0	3.0	36	estimate
232	29°19'32"	99°17'40"	--	--	0	10.0	39	estimate
232	29°15'10"	99°16'47"	--	--	1.5	7.0	49	estimate
233	29°54'53"	99°47'17"	Edwards-Trinity Plateau	--	-.1	.5	0	at Prade Ranch
233	29°54'51"	99°47'00"	Edwards-Trinity Plateau	--	0	.3	.5	
233	29°54'36"	99°46'37"	Edwards-Trinity Plateau	--	1.67	.6	.8	
233	29°54'13"	99°46'33"	Edwards-Trinity Plateau	--	.25	.8	1.4	
233	29°53'58"	99°46'14"	Edwards-Trinity Plateau	--	.38	.8	2.2	
233	29°53'25"	99°46'10"	Edwards-Trinity Plateau	--	.55	1.5	3	
233	29°52'24"	99°45'59"	Edwards-Trinity Plateau	--	1.54	3.3	4.5	
233	29°50'09"	99°46'50"	Edwards-Trinity Plateau	--	-2.15	2.1	7.8	
233	29°48'41"	99°46'20"	Edwards-Trinity Plateau	--	-5.09	1.7	9.9	
233	29°47'32"	99°46'46"	Edwards-Trinity Plateau	--	0	2.9	11.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
233	29°45'42"	99°45'47"	Edwards-Trinity Plateau	--	0	1.6	14.5	
233	29°44'27"	99°44'58"	Edwards-Trinity Plateau	--	0	.9	16.1	
233	29°43'50"	99°44'49"	Edwards-Trinity Plateau	--	4.56	.1	17	
233	29°43'46"	99°44'44"	Edwards-Trinity Plateau	--	6.04	2.6	17.1	
233	29°41'38"	99°45'14"	Edwards-Trinity Plateau	--	1.78	2.6	19.7	at Ranch Rd 1120
233	29°39'53"	99°44'37"	Edwards-Trinity Plateau	--	-.15	4.2	22.3	
233	29°36'49"	99°44'25"	Edwards-Trinity Plateau	--	2.26	3.0	26.5	
233	29°35'06"	99°43'56"	Edwards-Trinity Plateau	--	0	6.2	29.5	
233	29°31'48"	99°42'22"	Edwards, Edwards-Trinity Plateau	--	-1.48	3.8	35.7	
234	29°57'31"	99°44'33"	Edwards-Trinity Plateau	--	-.03	.5	0	at hydraulic ram on Prade Ranch
234	29°57'12"	99°44'45"	Edwards-Trinity Plateau	--	0	.3	.5	
234	29°56'59"	99°44'53"	Edwards-Trinity Plateau	--	1.95	.6	.8	
234	29°56'43"	99°45'05"	Edwards-Trinity Plateau	--	.25	.8	1.4	
234	29°55'55"	99°45'26"	Edwards-Trinity Plateau	--	-.79	.8	2.2	
234	29°55'12"	99°45'30"	Edwards-Trinity Plateau	--	.39	1.5	3	
234	29°53'43"	99°46'15"	Edwards-Trinity Plateau	--	-.42	3.3	4.5	
234	29°50'08"	99°46'51"	Edwards-Trinity Plateau	--	-1.55	2.1	7.8	
234	29°48'33"	99°46'16"	Edwards-Trinity Plateau	--	-2.11	1.7	9.9	
234	29°47'34"	99°46'48"	Edwards-Trinity Plateau	--	0	2.9	11.6	
234	29°45'37"	99°45'45"	Edwards-Trinity Plateau	--	0	1.5	14.5	
234	29°44'39"	99°45'06"	Edwards-Trinity Plateau	--	0	.1	16	
234	29°44'27"	99°44'57"	Edwards-Trinity Plateau	--	0	.9	16.1	
234	29°43'51"	99°44'50"	Edwards-Trinity Plateau	--	1.86	.1	17	
234	29°43'50"	99°44'49"	Edwards-Trinity Plateau	--	4.54	2.6	17.1	
234	29°41'38"	99°45'13"	Edwards-Trinity Plateau	--	1.16	2.6	19.7	
234	29°39'53"	99°44'37"	Edwards-Trinity Plateau	--	1.84	4.2	22.3	
234	29°36'50"	99°44'25"	Edwards-Trinity Plateau	--	3.56	3.0	26.5	
234	29°35'11"	99°44'07"	Edwards-Trinity Plateau	--	-2.23	6.2	29.5	
234	29°31'15"	99°42'04"	Edwards, Edwards-Trinity Plateau	--	.12	3.8	35.7	
235	29°56'33"	99°45'05"	Edwards-Trinity Plateau	--	.93	3.3	4.5	2.2 mi below West Fork Frio River
235	29°50'08"	99°46'51"	Edwards-Trinity Plateau	--	-3.95	2.1	7.8	
235	29°48'34"	99°46'17"	Edwards-Trinity Plateau	--	-4.52	1.7	9.9	
235	29°47'11"	99°45'59"	Edwards-Trinity Plateau	--	0	2.9	11.6	
235	29°45'20"	99°45'36"	Edwards-Trinity Plateau	--	0	1.6	14.5	
235	29°44'26"	99°44'58"	Edwards-Trinity Plateau	--	1.59	.9	16.1	
235	29°43'51"	99°44'50"	Edwards-Trinity Plateau	--	9.21	.1	17	
235	29°43'50"	99°44'49"	Edwards, Edwards-Trinity Plateau	--	27.6	22.4	17.1	
236	29°50'08"	99°46'50"	Edwards-Trinity Plateau	--	-5.61	8.3	7.8	500 ft above Kent Creek

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
236	29°44'27"	99°44'57"	Edwards-Trinity Plateau	--	14.1	3.6	16.1	
236	29°41'38"	99°45'13"	Edwards-Trinity Plateau	--	2.4	16.0	19.7	
236	29°32'00"	99°42'43"	Edwards, Edwards-Trinity Plateau	--	.7	3.8	35.7	
237	29°28'51"	100°14'16"	Edwards	--	6.0	9.2	0	0.25 mi above Brackettville gaging station (08190500)
237	29°26'27"	100°09'54"	Edwards	--	8.0	4.2	9.2	
237	29°25'39"	100°06'14"	Edwards	--	-21.1	23.6	13.4	
238	29°53'10"	100°24'46"	Edwards-Trinity Plateau	--	0	4.8	0	at Blackwater Hole
238	29°49'37"	100°23'49"	Edwards-Trinity Plateau	--	0	3.0	4.8	
238	29°47'35"	100°24'39"	Edwards-Trinity Plateau	--	.5	2.7	7.8	
238	29°45'26"	100°23'52"	Edwards-Trinity Plateau	--	3.73	.2	10.5	estimate
238	29°45'23"	100°23'52"	Edwards-Trinity Plateau	--	-6.21	2.7	10.7	
238	29°43'48"	100°24'10"	Edwards-Trinity Plateau	--	0	1.1	13.4	
238	29°43'19"	100°25'04"	Edwards-Trinity Plateau	--	0	2.2	14.5	
238	29°41'26"	100°25'15"	Edwards-Trinity Plateau	--	0	7.6	16.7	
238	29°36'48"	100°22'26"	Edwards-Trinity Plateau	--	0	5.0	24.3	
238	29°33'49"	100°20'56"	Edwards-Trinity Plateau	--	0	3.3	29.3	
238	29°34'48"	100°18'10"	Edwards-Trinity Plateau	--	-2.97	6.1	32.6	
238	29°32'22"	100°15'07"	Edwards-Trinity Plateau	--	0	4.9	38.7	
238	29°30'38"	100°16'48"	Edwards-Trinity Plateau	--	0	2.5	43.6	
238	29°29'30"	100°16'40"	Edwards, Edwards-Trinity Plateau	--	0	1.6	46.1	
239	29°53'10"	100°24'46"	Edwards-Trinity Plateau	--	0	4.8	0	at Blackwater Hole
239	29°49'37"	100°23'49"	Edwards-Trinity Plateau	--	0	3.0	4.8	
239	29°47'35"	100°24'39"	Edwards-Trinity Plateau	--	0	2.7	7.8	
239	29°45'31"	100°24'07"	Edwards-Trinity Plateau	--	.54	.3	10.5	
239	29°45'23"	100°23'52"	Edwards-Trinity Plateau	--	-2.35	2.6	10.8	
239	29°43'48"	100°24'10"	Edwards-Trinity Plateau	--	0	1.1	13.4	
239	29°43'19"	100°25'04"	Edwards-Trinity Plateau	--	0	2.2	14.5	
239	29°41'26"	100°25'15"	Edwards-Trinity Plateau	--	0	7.6	16.7	
239	29°36'48"	100°22'26"	Edwards-Trinity Plateau	--	0	5.0	24.3	
239	29°33'49"	100°20'56"	Edwards-Trinity Plateau	--	0	3.3	29.3	
239	29°34'48"	100°18'10"	Edwards-Trinity Plateau	--	0	4.9	32.6	
239	29°32'45"	100°16'26"	Edwards-Trinity Plateau	--	-2.41	2.6	37.5	
239	29°31'12"	100°15'03"	Edwards-Trinity Plateau	--	-2.73	1.5	40.1	
239	29°30'56"	100°16'33"	Edwards-Trinity Plateau	--	0	4.5	41.6	
239	29°29'30"	100°16'40"	Edwards, Edwards-Trinity Plateau	--	0	1.6	46.1	
240	29°28'51"	100°14'16"	Edwards	--	-286.0	38.5	0	gaging station (08190500)
241	29°41'59"	99°26'26"	Trinity	--	1.71	2.3	0	FM 470

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
241	29°40'34"	99°25'40"	Trinity	--	4.65	1.2	2.3	
241	29°39'42"	99°25'19"	Trinity	--	.5	2.0	3.5	
241	29°38'21"	99°24'51"	Trinity	--	2.5	2.1	5.5	
241	29°36'51"	99°25'02"	Trinity	--	.89	2.1	7.6	
241	29°35'42"	99°24'03"	Trinity	--	2.3	2.1	9.7	
241	29°34'57"	99°23'57"	Trinity	--	-3.0	2.6	11.8	
241	29°33'16"	99°24'16"	Trinity	--	-2.3	2.0	14.4	
241	29°31'53"	99°24'04"	Edwards, Trinity	--	-1.0	2.1	16.4	
241	29°30'35"	99°23'29"	Edwards	--	-1.9	1.2	18.5	
241	29°29'16"	99°23'11"	--	--	-11.8	2.1	19.7	
241	29°28'58"	99°21'20"	--	--	-11.72	2.8	21.8	
241	29°28'34"	99°18'57"	--	--	-.38	1.3	24.6	
241	29°28'06"	99°17'57"	Edwards	--	-1.4	.1	25.9	
241	29°28'05"	99°17'52"	Edwards	--	-.05	.6	26	
241	29°27'50"	99°17'39"	Edwards	--	-.05	.2	26.6	
241	29°27'41"	99°17'34"	--	--	0	1.4	26.8	
241	29°26'21"	99°17'03"	--	--	0	4.6	28.2	
241	29°23'40"	99°16'53"	--	--	.2	3.2	32.8	
241	29°21'13"	99°16'53"	--	--	-.19	3.0	36	
242	29°41'07"	99°18'19"	Trinity	--	1.6	2.3	4.7	
242	29°40'12"	99°16'49"	Trinity	--	4.76	2.1	2.4	
243	32°36'56"	94°21'24"	Carrizo-Wilcox	--	-.03	3.3	3.3	
244	32°46'04"	94°54'55"	--	Queen City	1.18	4.1	52.1	at SH 155
244	32°44'20"	94°51'58"	--	Queen City	-.04	4.2	48	
244	32°42'13"	94°48'23"	--	Queen City	.13	4.2	43.8	
244	32°40'22"	94°45'03"	--	Queen City	1.17	7.2	39.6	
244	32°38'19"	94°41'40"	--	Queen City	.02	6.4	32.4	
244	32°37'24"	94°34'36"	--	Queen City	-1.18	4.0	26	FM 450
244	32°37'36"	94°30'55"	Carrizo-Wilcox	Queen City	1.74	8.9	22	
244	32°40'39"	94°26'13"	Carrizo-Wilcox	--	2.73	5.6	13.1	
244	32°42'45"	94°20'43"	Carrizo-Wilcox	--	.76	4.5	7.5	
245	32°44'27"	94°52'04"	--	Queen City	1.19	4.2	48	0.2 mi above bridge on FM 555
245	32°42'27"	94°48'40"	--	Queen City	5.6	4.2	43.8	
245	32°40'22"	94°45'03"	--	Queen City	10.2	13.6	39.6	
245	32°37'21"	94°34'28"	--	Queen City	3.5	4.0	26	
245	32°37'41"	94°30'45"	--	--	.2	8.9	22	
245	32°40'17"	94°26'33"	Carrizo-Wilcox	--	3.4	5.6	13.1	
246	33°49'14"	99°47'09"	--	--	.3	13.6	188.4	gaging station (07311700)

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
246	33°48'12"	99°43'51"	--	--	-0.5	7.7	174.8	
246	33°49'22"	99°40'32"	--	--	1.4	7.7	167.1	
246	33°47'16"	99°45'45"	--	--	-1.3	9.0	159.4	
246	33°46'06"	99°31'12"	--	--	-1.2	9.6	150.4	
247	35°02'17"	100°45'50"	--	Dockum	.43	3.1	40.2	1 mi below Lake Tanglewood Dam
247	35°03'09"	100°44'34"	--	Dockum	-.06	.9	37.1	
247	35°03'29"	100°44'24"	--	Dockum	-.01	1.7	36.2	
247	35°02'52"	100°43'26"	--	--	.3	1.4	34.5	
247	35°02'07"	100°42'36"	--	--	-.04	1.3	33.1	
247	35°01'23"	100°42'03"	--	--	-.23	1.4	31.8	
247	35°00'28"	100°41'24"	--	--	.04	1.4	30.4	
247	34°59'29"	100°40'48"	--	--	-.86	1.4	29	
247	34°58'31"	100°40'22"	--	--	-.21	.1	27.6	
247	34°58'24"	100°40'26"	--	--	0	.5	27.5	
247	34°58'00"	100°40'26"	--	--	.46	.8	27	
247	34°57'33"	100°40'15"	--	--	.65	1.5	26.2	
247	34°56'52"	100°39'46"	--	--	-.76	2.0	24.7	
247	34°56'09"	100°38'31"	--	--	.05	1.2	22.7	
247	34°55'48"	100°37'33"	--	--	-.4	.9	21.5	
247	34°55'18"	100°36'57"	--	--	0	.3	20.6	
247	34°55'24"	100°36'39"	--	--	.05	.1	20.3	
247	34°55'23"	100°36'36"	--	--	.35	1.2	20.2	
247	34°54'43"	100°36'03"	--	--	-.39	.5	19	
247	34°54'21"	100°35'49"	--	--	-.01	.3	18.5	
247	34°54'14"	100°35'52"	--	--	0	1.9	18.2	
247	34°53'12"	100°36'18"	--	--	.32	.6	16.3	
247	34°52'44"	100°36'32"	--	--	1.04	1.7	15.7	
247	34°52'14"	100°34'51"	--	--	-.91	2.0	14	
247	34°51'15"	100°33'14"	--	--	.39	1.8	12	
247	34°51'33"	100°31'40"	--	--	.47	1.7	10.2	
247	34°51'47"	100°30'00"	--	--	.06	1.6	8.5	
247	34°51'54"	100°29'02"	--	--	.11	2.0	6.9	
247	34°51'51"	100°28'22"	--	--	.52	1.1	4.9	
247	34°51'37"	100°27'25"	--	--	-.17	2.3	3.8	
247	34°50'48"	100°25'58"	--	--	.16	1.5	1.5	
248	33°38'39"	99°48'01"	--	--	.04	3.8	41	gaging station (07311800)
248	33°38'58"	99°46'00"	--	--	-.09	15.4	37.2	
248	33°38'44"	99°39'56"	--	--	-.24	11.5	21.8	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
248	33°41'03"	99°35'04"	--	--	-0.51	10.3	10.3	
249	32°41'50"	94°56'34"	--	Queen City	.15	.8	.8	FM 1403
250	34°55'27"	102°05'56"	Ogallala	--	0	2.0	0	600 ft below dam at Buffalo Lake
250	34°56'07"	102°04'22"	Ogallala	--	-2	1.8	2	
250	34°56'42"	102°02'45"	Ogallala	--	-36	1.2	3.8	
250	34°57'19"	102°01'44"	Ogallala	--	-2	1.6	5	
250	34°57'33"	102°00'43"	Ogallala	--	-03	2.6	6.6	
250	34°58'01"	101°58'58"	Ogallala	--	-83	1.7	9.2	
250	34°58'19"	101°57'32"	Ogallala	--	-2.91	7.0	10.9	
251	34°55'27"	102°05'56"	Ogallala	--	-.62	9.2	0	600 ft below dam at Buffalo Lake
251	34°58'01"	101°58'58"	Ogallala	--	-.48	1.7	9.2	
251	34°58'19"	101°57'32"	Ogallala	--	-.54	1.7	10.9	
251	34°57'48"	101°56'42"	Ogallala	--	-.04	3.2	12.6	
251	34°57'35"	101°54'39"	Ogallala	--	-.92	2.1	15.8	
252	30°48'05"	103°49'55"	Edwards-Trinity Plateau	--	-14.3	4.5	11.8	
252	30°51'45"	103°49'12"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-4.9	5.1	7.3	
253	30°48'05"	103°49'55"	Edwards-Trinity Plateau	--	-9.7	4.5	11.8	
253	30°51'45"	103°49'12"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-16.9	5.1	7.3	
254	30°48'05"	103°49'55"	Edwards-Trinity Plateau	--	-3.2	4.5	11.8	
254	30°51'45"	103°49'12"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-10.4	5.1	7.3	
255	30°48'05"	103°49'55"	Edwards-Trinity Plateau	--	-4.7	2.2	11.8	
255	30°49'53"	103°50'02"	Edwards-Trinity Plateau	--	3.0	.1	9.6	
255	30°50'01"	103°50'02"	Edwards-Trinity Plateau	--	6.3	2.2	9.5	
255	30°51'45"	103°49'12"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-20.1	2.1	7.3	
255	30°53'28"	103°49'04"	Cenozoic Pecos Alluvium	--	0	2.5	5.2	
255	30°55'30"	103°48'46"	Cenozoic Pecos Alluvium	--	.1	.1	2.7	
255	30°55'37"	103°48'46"	Cenozoic Pecos Alluvium	--	0	.4	2.6	
256	31°08'25"	103°38'09"	Cenozoic Pecos Alluvium	--	-13.5	2.0	0	10 mi above US 290
257	31°09'32"	103°37'44"	Cenozoic Pecos Alluvium	--	3.8	1.5	-1.5	
258	31°08'25"	103°38'09"	Cenozoic Pecos Alluvium	--	-31.2	2.5	0	at gaging station (08424500)
259	29°41'56"	101°00'25"	Edwards-Trinity Plateau	--	85.0	20.0	0	at Rubbard Ford
259	29°34'12"	100°58'48"	Edwards-Trinity Plateau	--	24.0	5.0	20	
259	29°34'01"	100°58'48"	Edwards-Trinity Plateau	--	31.0	2.2	25	
260	29°39'00"	100°55'22"	Edwards-Trinity Plateau	--	-2.0	5.0	20	at Rough Canyon Dam

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
260	29°39'00"	100°55'22"	Edwards-Trinity Plateau	--	52.0	1.8	25	
260	29°29'12"	101°02'06"	Edwards-Trinity Plateau	--	2.0	1.0	26.8	
261	30°10'44"	101°04'12"	Edwards-Trinity Plateau	--	-1.6	.2	0	just below Beaver Lake
261	30°10'42"	101°04'22"	Edwards-Trinity Plateau	--	-5.8	4.0	.2	
261	30°08'22"	101°07'08"	Edwards-Trinity Plateau	--	0	9.5	4.2	
261	30°03'43"	101°09'57"	Edwards-Trinity Plateau	--	42.2	.1	13.7	
261	30°03'45"	101°10'22"	Edwards-Trinity Plateau	--	35.9	5.5	13.8	
261	30°00'13"	101°10'15"	Edwards-Trinity Plateau	--	40.9	3.0	19.3	
261	29°57'54"	101°08'45"	Edwards-Trinity Plateau	--	3.0	1.5	22.3	
261	29°56'59"	101°07'44"	Edwards-Trinity Plateau	--	10.0	2.8	23.8	
261	29°57'11"	101°06'36"	Edwards-Trinity Plateau	--	16.0	5.9	26.6	
261	29°56'22"	101°05'49"	Edwards-Trinity Plateau	--	17.0	1.0	32.5	
261	29°55'45"	101°05'09"	Edwards-Trinity Plateau	--	43.8	3.0	33.5	
261	29°52'58"	100°59'34"	Edwards-Trinity Plateau	--	58.0	9.4	36.5	
261	29°46'44"	100°59'31"	Edwards-Trinity Plateau	--	2.0	10.4	45.9	
261	29°39'25"	100°59'24"	Edwards-Trinity Plateau	--	144.7	7.0	56.3	
261	29°37'10"	100°56'27"	Edwards-Trinity Plateau	--	-19.0	9.7	63.3	
261	29°29'07"	101°01'55"	Edwards-Trinity Plateau	--	39.0	3.0	73	
262	29°53'11"	100°59'34"	Edwards-Trinity Plateau	--	11.5	.1	0	just above Dolans Creek
262	29°53'04"	100°59'34"	Edwards-Trinity Plateau	--	0	1.3	.1	
262	29°52'02"	100°59'38"	Edwards-Trinity Plateau	--	14.58	1.8	1.4	
262	29°50'38"	101°00'21"	Edwards-Trinity Plateau	--	3.0	.6	3.2	
262	29°50'03"	101°01'04"	Edwards-Trinity Plateau	--	35.9	2.75	3.8	
262	29°48'11"	101°00'14"	Edwards-Trinity Plateau	--	-14.0	1.55	6.55	
262	29°47'07"	100°59'13"	Edwards-Trinity Plateau	--	0	1.1	8.1	
262	29°46'19"	100°59'52"	Edwards-Trinity Plateau	--	-9.0	1.6	9.2	
262	29°44'58"	101°00'25"	Edwards-Trinity Plateau	--	20.0	2.6	10.8	
262	29°42'27"	101°00'54"	Edwards-Trinity Plateau	--	5.0	3.4	13.4	
262	29°40'11"	101°00'07"	Edwards-Trinity Plateau	--	-12.0	3.9	16.8	
262	29°40'01"	100°56'31"	Edwards-Trinity Plateau	--	37.0	1.6	20.7	
263	29°39'09"	100°55'22"	Edwards-Trinity Plateau	--	29.31	1.3	0	0.75 mi above Smith Ranch house
263	29°38'01"	100°55'44"	Edwards-Trinity Plateau	--	9.91	2.6	1.3	
263	29°36'33"	100°57'21"	Edwards-Trinity Plateau	--	-3.1	2.6	3.9	
263	29°35'14"	100°58'58"	Edwards-Trinity Plateau	--	7.99	1.5	6.5	
263	29°33'58"	100°58'58"	Edwards-Trinity Plateau	--	1.0	1.2	8	
263	29°33'01"	100°59'09"	Edwards-Trinity Plateau	--	-2.0	2.6	9.2	
263	29°30'46"	100°58'55"	Edwards-Trinity Plateau	--	14.0	2.2	11.8	
263	29°28'58"	101°00'18"	Edwards-Trinity Plateau	--	43.8	1.8	14	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
263	29°29'12"	101°01'58"	Edwards-Trinity Plateau	--	-3.0	0.7	15.8	
264	30°42'29"	103°47'02"	Edwards-Trinity Plateau	--	2.1	2.3	11.7	upper end of Wild Rose Canyon
264	30°43'00"	103°45'57"	Edwards-Trinity Plateau	--	-1.4	4.2	14	
264	30°45'04"	103°45'32"	Edwards-Trinity Plateau	--	-2.7	3.0	18.2	
264	30°46'51"	103°44'09"	Edwards-Trinity Plateau	--	-9	3.0	21.2	
264	30°46'23"	103°41'49"	Edwards-Trinity Plateau	--	1.3	4.0	24.2	
264	30°45'17"	103°39'03"	Edwards-Trinity Plateau	--	-2.4	.5	28.2	
265	30°37'49"	104°02'38"	--	Igneous	-1	.3	-12.3	12.3 mi above old Fort Davis Ln
265	30°37'58"	104°02'24"	--	Igneous	.2	.7	-12	
265	30°38'11"	104°01'48"	--	Igneous	-2	.3	-11.3	
265	30°38'08"	104°01'33"	--	Igneous	.5	.7	-11	
265	30°37'49"	104°00'57"	--	Igneous	-5	.5	-10.3	
265	30°37'30"	104°00'39"	--	Igneous	.1	.1	-9.8	
265	30°37'25"	104°00'39"	--	Igneous	.5	1.8	-9.7	
265	30°36'46"	103°59'42"	--	Igneous	5.1	1.9	-7.9	
265	30°36'54"	103°58'04"	--	Igneous	-5	2.3	-6	
265	30°36'23"	103°56'24"	--	Igneous	-4	2.4	-3.7	
265	30°36'08"	103°54'50"	--	--	-1.0	2.5	-1.3	
265	30°36'42"	103°52'37"	--	--	3.8	3.0	1.2	
265	30°38'34"	103°50'31"	--	--	.3	3.0	4.2	
265	30°39'04"	103°48'03"	--	--	-4	3.0	7.2	
265	30°40'23"	103°47'38"	Edwards-Trinity Plateau	--	.6	1.5	10.2	
265	30°42'29"	103°47'02"	Edwards-Trinity Plateau	--	3.5	2.3	11.7	
265	30°43'00"	103°45'57"	Edwards-Trinity Plateau	--	1.0	4.2	14	
266	30°42'41"	103°46'19"	Edwards-Trinity Plateau	--	13.2	3.5	14.7	0.8 mi below Wild Rose Canyon
266	30°45'04"	103°45'32"	Edwards-Trinity Plateau	--	-4.2	3.0	18.2	
266	30°46'52"	103°44'06"	Edwards-Trinity Plateau	--	20.6	7.0	21.2	
266	30°44'22"	103°34'58"	Edwards-Trinity Plateau	--	-60.9	9.0	28.2	
266	30°45'37"	103°28'19"	Edwards-Trinity Plateau	--	-4.2	3.0	37.2	
267	30°43'20"	103°45'50"	Edwards-Trinity Plateau	--	-8.6	2.4	15.8	75 ft below mouth of Short Canyon
267	30°45'04"	103°45'32"	Edwards-Trinity Plateau	--	-4.0	.5	18.2	
268	30°45'04"	103°45'32"	Edwards-Trinity Plateau	--	-2.8	3.0	18.2	at Old Limpia post office
268	30°46'51"	103°44'09"	Edwards-Trinity Plateau	--	-8	2.9	21.2	
268	30°46'29"	103°41'52"	Edwards-Trinity Plateau	--	1.6	4.1	24.1	
268	30°45'17"	103°39'03"	Edwards-Trinity Plateau	--	-6.2	1.0	28.2	
269	30°48'35"	103°52'22"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-3	5.2	11.2	200 ft below South Fork

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
269	30°52'15"	103°51'28"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-24.5	2.1	6	
269	30°53'48"	103°50'34"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-2.2	.9	3.9	
270	30°48'33"	103°52'33"	Edwards-Trinity Plateau	--	-22.8	7.0	11.3	50 ft below South Fork
270	30°53'25"	103°50'42"	Edwards-Trinity Plateau	--	.1	.1	4.3	
270	30°53'25"	103°50'42"	Edwards-Trinity Plateau	--	-.1	.3	4.2	
271	30°48'33"	103°52'33"	Edwards-Trinity Plateau	--	-4.1	1.8	11.3	60 ft below South Fork
271	30°49'38"	103°51'36"	Edwards-Trinity Plateau	--	.6	.8	9.5	
271	30°50'15"	103°51'25"	Edwards-Trinity Plateau	--	-.6	.1	8.7	
271	30°50'19"	103°51'25"	Edwards-Trinity Plateau	--	.6	.8	8.6	
271	30°50'57"	103°51'25"	Edwards-Trinity Plateau	--	-.6	.1	7.8	
272	30°48'33"	103°52'33"	Edwards-Trinity Plateau	--	-11.2	3.1	11.3	50 ft below South Fork
273	30°48'38"	103°53'38"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-18.5	10.3	12.5	3 mi below staff gage
274	30°48'45"	103°56'24"	Edwards-Trinity Plateau	--	-.3	2.8	15.5	
274	30°48'37"	103°53'52"	Edwards-Trinity Plateau	--	-1.0	2.7	12.7	
274	30°49'18"	103°51'46"	Edwards-Trinity Plateau	--	.2	1.5	10	
274	30°50'29"	103°51'25"	Edwards-Trinity Plateau	--	-.2	1.5	8.5	
274	30°51'41"	103°51'32"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-.2	1.1	7	
274	30°52'22"	103°51'25"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-.1	1.6	5.9	
274	30°53'25"	103°50'42"	Edwards-Trinity Plateau	--	-.1	.1	4.3	
274	30°53'25"	103°50'42"	Edwards-Trinity Plateau	--	.2	.2	4.2	
274	30°53'42"	103°50'38"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-.2	1.8	4	
275	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-25.7	6.2	13.3	at gaging station (08424500)
275	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-39.6	2.0	7.1	
275	30°55'11"	103°51'43"	Edwards-Trinity Plateau	--	-1.7	1.6	5.1	
276	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-25.7	6.2	13.3	at gaging station (08424500)
276	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-7.8	2.0	7.1	
276	30°55'11"	103°51'43"	Edwards-Trinity Plateau	--	-3.8	1.6	5.1	
277	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-6.1	6.2	13.3	at gaging station (08424500)
277	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-11.4	3.6	7.1	
278	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-19.3	6.2	13.3	at gaging station (08424500)
278	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-3.9	2.0	7.1	
279	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-22.0	6.2	13.3	at gaging station (08424500)

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
279	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-4.7	2.0	7.1	
280	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-14.2	6.2	13.3	at gaging station (08424500)
280	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-.1	2.0	7.1	
281	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-5.2	5.8	13.3	at gaging station (08424500)
281	30°54'24"	103°53'45"	Edwards-Trinity Plateau	--	.3	.4	7.5	
281	30°54'26"	103°53'20"	Edwards-Trinity Plateau	--	-.3	.2	7.1	
281	30°54'29"	103°53'09"	Edwards-Trinity Plateau	--	.6	1.8	6.9	
282	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-16.2	2.6	13.3	at gaging station (08424500)
282	30°53'21"	103°56'02"	Edwards-Trinity Plateau	--	-18.1	1.1	10.7	
282	30°53'51"	103°55'08"	Edwards-Trinity Plateau	--	-4.5	.3	9.6	
283	30°52'06"	103°58'01"	Edwards-Trinity Plateau	--	-.3	1.5	13.3	at gaging station (08424500)
283	30°52'58"	103°57'00"	Edwards-Trinity Plateau	--	-5.7	1.0	11.8	
283	30°53'20"	103°56'06"	Edwards-Trinity Plateau	--	-.8	1.0	10.8	
284	31°14'19"	102°36'18"	Cenozoic Pecos Alluvium	--	-17.2	1.0	-1	1.2 mi below headgates
284	31°14'02"	102°34'55"	Cenozoic Pecos Alluvium	--	12.1	1.1	0	
284	31°13'55"	102°33'54"	Cenozoic Pecos Alluvium	--	-.1	2.5	1.1	
284	31°13'01"	102°31'51"	Cenozoic Pecos Alluvium	--	-.3	2.8	3.6	
285	31°14'59"	102°37'04"	Cenozoic Pecos Alluvium	--	.4	2.5	0	at headgates
286	31°14'59"	102°37'04"	Cenozoic Pecos Alluvium	--	0	.4	0	at headgates
286	31°14'48"	102°36'43"	Cenozoic Pecos Alluvium	--	0	.6	.4	
286	31°14'29"	102°36'18"	Cenozoic Pecos Alluvium	--	-.4	1.4	1	
287	31°14'59"	102°37'04"	Cenozoic Pecos Alluvium	--	0	1.8	0	at headgates
288	31°14'59"	102°37'04"	Cenozoic Pecos Alluvium	--	-.3	.1	0	at headgates
288	31°14'52"	102°36'57"	Cenozoic Pecos Alluvium	--	-.7	1.4	.1	
289	31°54'02"	103°54'32"	--	--	-7.8	22.0	0	near Angeles gaging station (08409500)
289	31°49'53"	103°48'46"	Cenozoic Pecos Alluvium	--	12.9	21.0	22	
289	31°44'21"	103°44'27"	Cenozoic Pecos Alluvium	--	20.2	13.0	43	
289	31°40'05"	103°37'30"	Cenozoic Pecos Alluvium	--	-54.5	29.0	56	
289	31°26'06"	103°27'57"	Cenozoic Pecos Alluvium	--	-127.2	1.5	85	
289	31°25'50"	103°25'40"	Cenozoic Pecos Alluvium	--	1.2	3.5	86.5	
289	31°25'53"	103°24'25"	Cenozoic Pecos Alluvium	--	1.2	.1	90	
289	31°25'53"	103°24'18"	Cenozoic Pecos Alluvium	--	.9	11.9	90.1	
289	31°25'34"	103°23'16"	Cenozoic Pecos Alluvium	--	8.1	15.0	102	
289	31°25'38"	103°15'57"	--	--	-13.1	13.0	117	
289	31°21'52"	103°16'33"	Cenozoic Pecos Alluvium	--	24.5	4.0	130	
289	31°21'54"	103°05'56"	Cenozoic Pecos Alluvium	--	-.6	3.0	134	
289	31°23'02"	103°03'18"	Cenozoic Pecos Alluvium	Capitan Reef Complex	-.8	13.0	137	no pumping.
289	31°20'17"	102°55'37"	--	Capitan Reef Complex	1.2	4.0	150	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
289	31°16'49"	102°44'20"	--	--	-2.1	6.0	154	
289	31°18'51"	102°39'25"	Cenozoic Pecos Alluvium	--	16.0	20.0	160	
289	31°12'18"	102°26'16"	Cenozoic Pecos Alluvium	--	14.4	23.0	180	
290	31°06'34"	102°24'57"	Cenozoic Pecos Alluvium	--	-3.1	16.2	194.6	gaging station near Girvin (08446500)
290	31°02'04"	102°13'12"	Cenozoic Pecos Alluvium	--	1.3	8.9	178.4	
290	31°00'05"	102°07'37"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-4.5	11.6	169.5	
290	30°58'45"	101°58'22"	Edwards-Trinity Plateau	--	0	9.7	157.9	
290	30°54'15"	101°52'48"	Edwards-Trinity Plateau	--	7.0	10.6	148.2	
290	30°47'20"	101°50'02"	Edwards-Trinity Plateau	--	5.4	11.7	137.6	
290	30°39'34"	101°46'08"	Edwards-Trinity Plateau	--	4.0	9.4	125.9	
290	30°37'05"	101°39'18"	Edwards-Trinity Plateau	--	2.0	5.7	116.5	
290	30°32'49"	101°39'03"	Edwards-Trinity Plateau	--	-3.1	2.0	110.8	
290	30°31'30"	101°40'12"	Edwards-Trinity Plateau	--	17.8	9.7	108.8	
290	30°26'49"	101°43'19"	Edwards-Trinity Plateau	--	18.19	7.4	99.1	
290	30°22'30"	101°41'24"	Edwards-Trinity Plateau	--	-8.7	10.2	91.7	
290	30°18'00"	101°44'38"	Edwards-Trinity Plateau	--	-7.73	20.0	81.5	
290	30°07'50"	101°34'19"	Edwards-Trinity Plateau	--	33.3	4.7	61.5	
290	30°07'30"	101°30'21"	Edwards-Trinity Plateau	--	17.0	13.0	56.8	
290	30°00'15"	101°30'28"	Edwards-Trinity Plateau	--	-10.89	17.3	43.8	
290	29°53'20"	101°27'03"	Edwards-Trinity Plateau	--	3.0	11.5	26.5	
290	29°48'10"	101°26'38"	Edwards-Trinity Plateau	--	4.0	14.0	15	
291	31°53'57"	103°54'18"	Cenozoic Pecos Alluvium	--	-143.02	43.05	.35	gaging station (08410000)
291	31°37'57"	103°34'19"	Cenozoic Pecos Alluvium	--	-8.0	9.4	43.4	
291	31°35'57"	103°30'14"	Cenozoic Pecos Alluvium	--	-24.1	19.0	52.8	
291	31°26'11"	103°27'57"	Cenozoic Pecos Alluvium	--	2.52	21.8	71.8	
291	31°25'01"	103°15'25"	Cenozoic Pecos Alluvium	--	-4.2	12.2	93.6	
291	31°21'54"	103°06'00"	Cenozoic Pecos Alluvium	Capitan Reef Complex	-13.6	21.6	105.8	
291	31°18'20"	102°52'30"	--	--	5.6	14.0	127.4	at SH 18
291	31°17'09"	102°44'27"	--	--	2.3	8.8	141.4	
291	31°18'50"	102°39'18"	Cenozoic Pecos Alluvium	--	-5.8	8.0	150.2	
291	31°16'00"	102°35'49"	Cenozoic Pecos Alluvium	--	3.5	30.2	158.2	
292	31°53'57"	103°54'18"	Cenozoic Pecos Alluvium	--	-2.19	13.95	.35	gaging station (08410000)
292	31°48'14"	103°48'25"	Cenozoic Pecos Alluvium	--	-.39	29.1	14.3	gaging station (08407500)
292	31°37'57"	103°34'19"	Cenozoic Pecos Alluvium	--	0	9.4	43.4	
292	31°35'57"	103°30'14"	Cenozoic Pecos Alluvium	--	0	8.2	52.8	
292	31°31'27"	103°29'42"	Cenozoic Pecos Alluvium	--	0	10.8	61	
292	31°26'11"	103°27'57"	Cenozoic Pecos Alluvium	--	3.18	14.6	71.8	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
292	31°24'46"	103°19'30"	Cenozoic Pecos Alluvium	--	-1.19	7.2	86.4	
292	31°25'01"	103°15'25"	Cenozoic Pecos Alluvium	--	-1.99	12.2	93.6	
292	31°21'54"	103°06'00"	Cenozoic Pecos Alluvium	Capitan Reef Complex	.99	8.5	105.8	
292	31°22'00"	103°00'14"	Cenozoic Pecos Alluvium	Capitan Reef Complex	.6	13.1	114.3	
292	31°18'20"	102°52'30"	--	--	3.31	14.0	127.4	
292	31°17'09"	102°44'27"	--	--	.54	8.8	141.4	
292	31°18'50"	102°39'18"	Cenozoic Pecos Alluvium	--	.31	8.0	150.2	
292	31°16'00"	102°35'49"	Cenozoic Pecos Alluvium	--	5.45	15.0	158.2	
292	31°12'20"	102°27'32"	Cenozoic Pecos Alluvium	--	.3	15.2	173.2	
293	31°52'36"	103°52'58"	Cenozoic Pecos Alluvium	--	-98.98	40.5	2.9	gaging station (08410000)
293	31°37'57"	103°34'19"	Cenozoic Pecos Alluvium	--	-23.5	9.4	43.4	
293	31°35'57"	103°30'14"	Cenozoic Pecos Alluvium	--	-34.2	8.2	52.8	
293	31°31'27"	103°29'42"	Cenozoic Pecos Alluvium	--	15.0	10.8	61	
293	31°26'11"	103°27'57"	Cenozoic Pecos Alluvium	--	-31.0	14.6	71.8	
293	31°24'46"	103°19'30"	Cenozoic Pecos Alluvium	--	-6.01	19.4	86.4	
293	31°21'54"	103°06'00"	Cenozoic Pecos Alluvium	Capitan Reef Complex	-3.0	5.9	105.8	
293	31°22'48"	103°02'06"	Cenozoic Pecos Alluvium	Capitan Reef Complex	-15.81	15.7	111.7	
293	31°18'20"	102°52'30"	--	--	12.21	14.0	127.4	
293	31°17'09"	102°44'27"	--	--	-.1	8.8	141.4	
293	31°18'50"	102°39'18"	Cenozoic Pecos Alluvium	--	-3.6	8.0	150.2	
293	31°16'00"	102°35'49"	Cenozoic Pecos Alluvium	--	-.3	15.0	158.2	
293	31°12'20"	102°27'32"	Cenozoic Pecos Alluvium	--	0	15.2	173.2	
294	30°59'39"	103°43'19"	Cenozoic Pecos Alluvium	--	.23	1.1	0	50 ft below property line of Pacy and Mott tracts
294	30°59'21"	103°44'13"	Cenozoic Pecos Alluvium	--	-.2	.6	1.1	
294	30°59'06"	103°44'45"	Cenozoic Pecos Alluvium	--	-.03	.5	1.7	
295	30°56'41"	103°46'22"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-.08	1.0	0	at point of diversion
296	30°56'42"	103°47'24"	Cenozoic Pecos Alluvium	--	.26	.8	0	at weir
297	30°58'29"	103°45'43"	Cenozoic Pecos Alluvium	--	.01	.5	0	50 ft below headgate
297	30°57'51"	103°46'04"	Cenozoic Pecos Alluvium	--	-.03	1.0	.5	
298	30°59'31"	103°43'55"	Cenozoic Pecos Alluvium	--	.07	.7	0	just below county road crossing
298	30°59'15"	103°44'20"	Cenozoic Pecos Alluvium	--	-.5	.5	.7	
298	30°59'08"	103°44'38"	Cenozoic Pecos Alluvium	--	.58	.4	1.2	
299	30°59'56"	103°42'07"	Cenozoic Pecos Alluvium	--	.39	.8	0	at point of diversion
299	31°00'05"	103°41'52"	Cenozoic Pecos Alluvium	--	.04	.5	.8	
300	30°59'56"	103°42'07"	Cenozoic Pecos Alluvium	--	-.41	.5	0	50 ft below headgate
300	30°59'53"	103°42'21"	Cenozoic Pecos Alluvium	--	.62	.1	.5	
300	30°59'48"	103°42'36"	Cenozoic Pecos Alluvium	--	-.09	.1	.6	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
301	30°58'56"	103°45'03"	Cenozoic Pecos Alluvium	--	-0.96	0.2	0	
302	30°59'23"	103°44'09"	Cenozoic Pecos Alluvium	--	.06	.5	0	300 ft below dam
303	31°00'04"	103°42'07"	Cenozoic Pecos Alluvium	--	-.18	.9	0	at US 290 road crossing
303	31°00'02"	103°41'45"	Cenozoic Pecos Alluvium	--	-.02	1.3	.9	
303	31°00'16"	103°41'31"	Cenozoic Pecos Alluvium	--	-.01	.7	2.2	
303	31°00'23"	103°41'13"	Cenozoic Pecos Alluvium	--	-.23	1.1	2.9	
304	31°00'04"	103°42'07"	Cenozoic Pecos Alluvium	--	-.07	.4	0	at US 290 road crossing
304	31°00'05"	103°41'52"	Cenozoic Pecos Alluvium	--	-.05	.5	.4	
304	31°00'01"	103°41'45"	Cenozoic Pecos Alluvium	--	-.08	.8	.9	
304	31°00'12"	103°41'34"	Cenozoic Pecos Alluvium	--	0	.8	1.7	
304	31°00'25"	103°41'31"	Cenozoic Pecos Alluvium	--	0	.4	2.5	
304	31°00'23"	103°41'13"	Cenozoic Pecos Alluvium	--	-.06	1.1	2.9	
305	30°59'40"	103°43'12"	Cenozoic Pecos Alluvium	--	-.5	1.0	0	at point of diversion
306	30°58'47"	103°45'25"	Cenozoic Pecos Alluvium	--	-.29	.5	0	1,000 ft below diversion dam
307	30°57'17"	103°46'01"	Cenozoic Pecos Alluvium	--	-3.13	2.3	0	at point of diversion
308	31°00'20"	103°41'02"	Cenozoic Pecos Alluvium	--	10.9	1.1	.5	0.5 mi below San Solomon Springs
308	30°59'33"	103°43'01"	Cenozoic Pecos Alluvium	--	1.2	.4	1.6	
308	30°59'08"	103°42'57"	Cenozoic Pecos Alluvium	--	-2.0	.7	2	
308	30°57'14"	103°44'49"	Cenozoic Pecos Alluvium	--	-4.2	1.5	2.7	
309	30°59'58"	103°42'03"	Cenozoic Pecos Alluvium	--	-8.13	2.7	0	400 ft south of Bruce Corner
309	30°59'09"	103°44'34"	Cenozoic Pecos Alluvium	--	-.37	2.65	2.7	
309	30°57'33"	103°46'01"	Cenozoic Pecos Alluvium	--	-3.91	3.5	5.35	at Scherye Corner
310	30°59'58"	103°42'00"	Cenozoic Pecos Alluvium	--	.47	1.9	0	at headgates
310	30°59'31"	103°43'48"	Cenozoic Pecos Alluvium	--	-7.47	3.6	1.9	
311	30°59'57"	103°42'03"	Cenozoic Pecos Alluvium	--	-.85	1.1	0	San Solomon Springs at outlet
311	30°59'41"	103°43'04"	Cenozoic Pecos Alluvium	--	-1.0	.4	1.1	
311	30°59'37"	103°43'30"	Cenozoic Pecos Alluvium	--	.34	1.6	1.5	
311	30°59'02"	103°44'52"	Cenozoic Pecos Alluvium	--	-.96	2.1	3.1	
311	30°57'41"	103°46'01"	Cenozoic Pecos Alluvium	--	-.49	1.1	5.2	
312	30°59'00"	103°44'56"	Cenozoic Pecos Alluvium	--	-.2	2.9	1.8	500 ft below Giffin Canal
313	30°58'16"	103°45'57"	Cenozoic Pecos Alluvium	--	-1.61	4.0	0	300 ft below San Solomon Springs
313	30°59'43"	103°42'57"	Cenozoic Pecos Alluvium	--	-3.19	3.0	4	
313	31°00'04"	103°42'07"	Cenozoic Pecos Alluvium	--	-1.24	1.4	7	
313	31°00'21"	103°41'06"	Cenozoic Pecos Alluvium	--	-.34	3.0	8.4	
314	30°59'00"	103°44'56"	Cenozoic Pecos Alluvium	--	-2.5	2.9	1.8	500 ft below Giffin Canal
314	30°59'39"	103°43'22"	Cenozoic Pecos Alluvium	--	.6	1.3	4.7	
314	30°59'49"	103°42'32"	Cenozoic Pecos Alluvium	--	-1.2	1.1	6	
314	30°59'55"	103°42'10"	Cenozoic Pecos Alluvium	--	1.0	1.0	7.1	



**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
314	31°00'03"	103°41'49"	Cenozoic Pecos Alluvium	--	-2.1	1.6	8.1	
314	31°00'21"	103°41'09"	Cenozoic Pecos Alluvium	--	.3	1.4	9.7	
315	30°59'01"	103°44'56"	Cenozoic Pecos Alluvium	--	11.2	2.9	1.8	500 ft below Giffin Canal
315	30°59'39"	103°43'22"	Cenozoic Pecos Alluvium	--	-4	1.6	4.7	
315	30°59'51"	103°42'28"	Cenozoic Pecos Alluvium	--	0	1.4	6.3	
315	31°00'01"	103°42'07"	Cenozoic Pecos Alluvium	--	0	1.9	7.7	
315	31°00'22"	103°41'13"	Cenozoic Pecos Alluvium	--	-4.2	.5	9.6	
315	31°00'15"	103°40'37"	Cenozoic Pecos Alluvium	--	.5	1.0	10.1	
316	30°58'00"	103°42'32"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-3.8	3.4	.1	0.1 mi below release gate
317	30°58'00"	103°42'32"	Cenozoic Pecos Alluvium, Edwards-Trinity Plateau	--	-9	.6	.1	0.1 mi below release gate
317	30°58'19"	103°42'28"	Cenozoic Pecos Alluvium	--	.2	1.0	.7	
317	30°58'50"	103°42'36"	Cenozoic Pecos Alluvium	--	-1.3	.7	1.7	
317	30°59'06"	103°42'54"	Cenozoic Pecos Alluvium	--	1.7	1.1	2.4	
318	30°58'00"	103°42'32"	Cenozoic Pecos Alluvium	--	.3	.3	.1	0.1 mi below release gate
318	30°58'22"	103°42'39"	Cenozoic Pecos Alluvium	--	-5	2.2	.4	
319	30°58'07"	103°42'36"	Cenozoic Pecos Alluvium	--	-2.6	2.9	.2	0.2 mi below release gate
320	30°58'08"	103°42'36"	Cenozoic Pecos Alluvium	--	-1.2	2.7	.2	0.2 mi below release gate
321	28°53'40"	100°36'03"	--	--	30.0	16.0	481.12	at Comal, mean discharge for period
321	28°42'46"	100°30'25"	--	--	60.0	18.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period
322	29°19'41"	100°55'48"	Edwards-Trinity Plateau	--	23.0	14.0	561.12	near Del Rio IBWC gaging station (08451800), mean discharge for period
322	29°13'41"	100°47'09"	--	--	113.0	29.0	575.12	mean discharge for period
322	28°51'22"	100°34'48"	--	--	-20.0	21.0	604.12	mean discharge for period
323	28°42'46"	100°30'25"	--	--	55.0	18.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period
324	28°42'46"	100°30'25"	--	--	40.0	9.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period
324	28°36'40"	100°26'49"	--	--	15.0	9.0	506.12	mean discharge for period
325	28°42'45"	100°30'25"	--	--	35.0	18.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period
325	28°22'44"	100°20'06"	--	--	-10.0	69.0	515.12	mean discharge for period
325	27°48'08"	99°52'36"	--	--	60.0	.25	584.12	mean discharge for period
325	27°47'57"	99°52'37"	--	--	-120.0	20.75	584.37	mean discharge for period
325	27°38'04"	99°39'46"	--	--	25.0	20.0	605.12	mean discharge for period
326	28°42'32"	100°31'15"	--	--	-25.0	128.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
327	28°42'48"	100°30'28"	--	--	-25.0	87.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period
327	27°48'08"	99°52'37"	--	--	60.0	.25	584.12	mean discharge for period
327	27°47'57"	99°52'37"	--	--	-50.0	12.75	584.37	mean discharge for period
327	27°42'23"	99°45'03"	--	--	-80.0	8.0	597.12	mean discharge for period
327	27°38'04"	99°39'47"	--	--	20.0	20.0	605.12	mean discharge for period
328	28°42'45"	100°30'25"	--	--	-161.0	11.0	497.12	Eagle Pass IBWC gaging station (08458000), mean discharge for period
328	28°35'26"	100°24'43"	--	--	20.0	8.0	508.12	mean discharge for period
328	28°22'44"	100°20'06"	--	--	20.0	10.0	516.12	mean discharge for period
328	28°21'34"	100°19'04"	--	--	-30.0	12.0	526.12	mean discharge for period
328	28°18'45"	100°17'06"	Carrizo-Wilcox	--	-100.0	14.0	538.12	mean discharge for period
328	28°09'04"	100°06'03"	Carrizo-Wilcox	--	120.0	12.0	552.12	mean discharge for period
328	27°59'22"	99°58'47"	--	--	-110.0	10.0	564.12	mean discharge for period
328	27°55'27"	99°55'24"	--	--	90.0	12.0	574.12	mean discharge for period
328	27°48'03"	99°52'40"	--	--	-70.0	10.0	586.12	mean discharge for period
328	27°43'49"	99°47'11"	--	--	15.0	12.0	596.12	mean discharge for period
328	27°38'04"	99°39'45"	--	--	-120.0	5.5	608.12	mean discharge for period
328	27°37'35"	99°35'23"	--	--	-25.0	11.0	613.62	mean discharge for period
328	27°32'41"	99°31'15"	--	--	5.0	12.0	624.62	mean discharge for period
328	27°19'24"	99°31'32"	--	--	40.0	7.0	636.62	mean discharge for period
328	27°12'58"	99°26'22"	--	--	-30.0	11.0	643.62	mean discharge for period
328	27°09'22"	99°26'01"	--	--	0	10.0	654.62	mean discharge for period
329	32°00'15"	106°39'07"	Hueco-Mesilla Bolson	--	-2.1	1.24	0	at headgate on main canal
329	31°59'06"	106°38'20"	Hueco-Mesilla Bolson	--	-1.0	1.27	1.24	
330	31°41'17"	106°19'08"	Hueco-Mesilla Bolson	--	-.4	1.0	0	at US 80 in El Paso
330	31°40'35"	106°18'32"	Hueco-Mesilla Bolson	--	-.2	1.0	1	
331	31°38'12"	106°17'06"	Hueco-Mesilla Bolson	--	.4	1.2	0	1.2 mi above Passmore Rd
331	31°37'18"	106°16'30"	Hueco-Mesilla Bolson	--	1.9	1.2	1.2	
332	31°58'04"	106°38'20"	Hueco-Mesilla Bolson	--	1.24	.9	0	at bridge on private road 0.9 mi above FM 273
332	31°57'21"	106°38'09"	Hueco-Mesilla Bolson	--	.57	1.1	.9	
333	32°00'15"	106°39'10"	Hueco-Mesilla Bolson	--	-5.0	1.38	0	at headgate on main canal
333	31°59'09"	106°38'52"	Hueco-Mesilla Bolson	--	-1.21	1.32	1.38	
334	31°58'14"	106°39'36"	Hueco-Mesilla Bolson	--	2.1	1.3	0	at private bridge 1.4 mi north of old La Union
334	31°57'06"	106°39'21"	Hueco-Mesilla Bolson	--	2.9	.5	1.3	
335	29°15'20"	103°46'30"	--	--	-20.0	17.3	279.92	at Lajitas, mean discharge for period
335	29°09'34"	103°36'18"	--	--	0	43.2	297.22	mean discharge for period
335	28°59'05"	103°11'52"	--	--	50.0	19.0	340.42	mean discharge for period

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
335	29°11'03"	102°58'55"	--	--	30.0	14.5	359.42	mean discharge for period
335	29°16'54"	102°53'45"	--	--	100.0	24.9	373.92	mean discharge for period
335	29°32'11"	102°47'27"	Edwards-Trinity Plateau	--	220.0	100.9	398.82	mean discharge for period
335	29°47'22"	101°34'22"	Edwards-Trinity Plateau	--	403.0	73.3	499.72	mean discharge for period
336	31°00'44"	103°42'46"	Cenozoic Pecos Alluvium	--	5.3	3.8	1	at Aloma settlement
336	30°59'04"	103°45'03"	Cenozoic Pecos Alluvium	--	1.6	1.0	4.8	
336	30°59'01"	103°46'04"	Cenozoic Pecos Alluvium	--	-1.7	3.0	5.8	
337	30°59'59"	103°43'48"	Cenozoic Pecos Alluvium	--	4.3	1.8	3	1.8 mi above Balmorhea bridge
337	30°59'04"	103°45'03"	Cenozoic Pecos Alluvium	--	.3	1.0	4.8	
337	30°59'01"	103°46'04"	Cenozoic Pecos Alluvium	--	-2.3	3.0	5.8	
338	31°00'17"	103°43'26"	Cenozoic Pecos Alluvium	--	-2.5	4.2	-1.2	at US 290 crossing
338	30°59'59"	103°43'48"	Cenozoic Pecos Alluvium	--	2.7	1.8	3	
338	30°59'04"	103°45'03"	Cenozoic Pecos Alluvium	--	.7	1.0	4.8	
338	30°59'01"	103°46'04"	Cenozoic Pecos Alluvium	--	1.4	3.0	5.8	
339	30°59'59"	103°43'48"	Cenozoic Pecos Alluvium	--	2.8	1.8	3	1.8 mi above Balmorhea bridge
339	30°59'04"	103°45'03"	Cenozoic Pecos Alluvium	--	-3	1.0	4.8	
339	30°59'01"	103°46'01"	Cenozoic Pecos Alluvium	--	2.4	3.0	5.8	
340	30°59'59"	103°43'48"	Cenozoic Pecos Alluvium	--	2.7	1.8	3	1.8 mi below Balmorhea bridge
340	30°59'04"	103°45'03"	Cenozoic Pecos Alluvium	--	.3	1.0	4.8	
340	30°59'01"	103°46'01"	Cenozoic Pecos Alluvium	--	1.9	3.0	5.8	
341	30°59'24"	103°43'44"	Cenozoic Pecos Alluvium	--	.4	.07	0	300 ft above springs
341	30°59'24"	103°43'48"	Cenozoic Pecos Alluvium	--	1.5	.69	.07	
342	32°48'11"	95°32'04"	Carrizo-Wilcox	Queen City	1.5	.8	1.6	SH 182
342	32°42'06"	95°24'26"	--	Queen City	-4.1	.8	.8	
343	30°18'12"	93°44'36"	Gulf Coast	--	27.0	5.3	22.6	gaging station (08030500)
344	30°18'12"	93°44'36"	Gulf Coast	--	-16.0	0	22.6	gaging station (08030500)
344	30°18'12"	93°44'36"	Gulf Coast	--	-190.0	5.3	22.6	
345	32°36'04"	95°23'30"	--	Queen City	28.2	21.2	448.6	discontinued gaging station (08018600)
345	32°34'19"	95°12'19"	--	Queen City	43.6	42.8	427.4	gaging station (08019200)
345	32°28'34"	94°51'03"	--	Queen City	13.0	5.6	384.6	
345	32°27'37"	94°48'50"	--	--	19.0	6.2	379	
345	32°28'02"	94°46'51"	--	--	-32.0	1.8	372.8	gaging station (08020500)
345	32°26'12"	94°46'45"	--	--	12.0	8.4	371	
345	32°25'00"	94°42'33"	Carrizo-Wilcox	--	20.0	23.2	362.6	
345	32°22'11"	94°27'28"	Carrizo-Wilcox	--	22.0	36.0	339.4	gaging station (080220000)
345	32°13'28"	94°13'31"	Carrizo-Wilcox	--	2.0	11.2	303.4	
346	32°46'24"	95°47'56"	Carrizo-Wilcox	--	-1.1	19.5	500.7	discontinued gaging station (08017500)
346	32°43'12"	95°38'04"	Carrizo-Wilcox	--	2.82	9.3	481.2	discontinued gaging station (08018000)

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
346	32°40'22"	95°34'17"	--	Queen City	37.3	23.3	471.9	discontinued gaging station (08018300)
346	32°36'04"	95°23'30"	--	Queen City	-23.3	21.2	448.6	discontinued gaging station (08018600)
346	32°34'19"	95°12'19"	--	Queen City	411.7	7.2	427.4	gaging station (08019200)
347	32°13'27"	94°13'31"	Carrizo-Wilcox	--	1.77	12.0	308	at bridge on US 79
347	32°07'29"	94°12'04"	Carrizo-Wilcox	--	3.42	22.0	296	
347	31°59'46"	94°04'26"	Carrizo-Wilcox	--	.03	6.0	274	
347	31°58'35"	94°00'43"	Carrizo-Wilcox	--	3.9	7.0	268	
347	31°55'59"	93°58'48"	Carrizo-Wilcox	--	1.7	5.0	261	
347	31°54'05"	93°57'33"	Carrizo-Wilcox	--	2.8	12.0	256	
347	31°50'58"	93°55'17"	Carrizo-Wilcox	--	.87	2.0	244	
347	31°50'28"	93°55'53"	Carrizo-Wilcox	--	-1.4	9.0	242	
347	31°48'18"	93°52'46"	Carrizo-Wilcox	--	6.95	7.0	233	
347	31°41'10"	93°49'29"	Carrizo-Wilcox	--	0	9.0	226	
347	31°35'42"	93°50'23"	Carrizo-Wilcox	--	1.8	12.0	217	
347	31°34'51"	93°49'55"	Carrizo-Wilcox	--	5.34	10.0	205	
347	31°27'29"	93°45'16"	Carrizo-Wilcox	Sparta	-7	10.0	195	gaging station (08024400)
347	31°23'13"	93°42'01"	--	Sparta	-27	2.0	185	
347	31°23'37"	93°40'17"	--	--	-3	9.0	183	
347	31°21'13"	93°39'53"	--	--	12.0	4.0	174	
347	31°21'15"	93°39'46"	Gulf Coast	--	5.9	9.0	170	
347	31°09'45"	93°36'34"	Gulf Coast	--	-1.32	7.0	161	
347	31°11'20"	93°33'05"	Gulf Coast	--	10.38	14.0	154	
347	31°03'50"	93°31'08"	Gulf Coast	--	19.72	14.0	140	
347	30°59'18"	93°33'50"	Gulf Coast	--	5.12	11.0	126	
347	30°54'58"	93°33'12"	Gulf Coast	--	.33	5.0	115	
347	30°51'33"	93°33'41"	Gulf Coast	--	3.55	7.0	110	
347	30°48'04"	93°34'30"	Gulf Coast	--	10.23	5.0	103	
347	30°44'49"	93°36'30"	Gulf Coast	--	36.93	18.0	98	
347	30°38'50"	93°40'28"	Gulf Coast	--	2.46	4.0	80	
347	30°36'59"	93°41'08"	Gulf Coast	--	-1.1	8.0	76	
347	30°30'53"	93°42'37"	Gulf Coast	--	9.0	5.0	68	
347	30°27'51"	93°42'16"	Gulf Coast	--	69.61	23.0	63	
348	29°50'06"	98°50'39"	Trinity	--	21.9	5.4	0	75 ft below upper Cibolo Rd
348	29°48'53"	98°45'18"	Trinity	--	17.8	4.2	5.4	
348	29°46'25"	98°42'32"	Trinity	--	-9.7	2.9	9.6	
348	29°45'57"	98°40'19"	Trinity	--	-9.0	2.1	12.5	
348	29°44'46"	98°38'40"	Trinity	--	-37.8	6.9	14.6	
348	29°45'00"	98°34'26"	Trinity	--	-4.3	2.1	21.5	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
348	29°45'36"	98°32'58"	Trinity	--	-29.2	3.4	23.6	
348	29°44'35"	98°31'40"	Trinity	--	-6.7	1.7	27	
348	29°44'17"	98°29'49"	Trinity	--	-2.8	1.8	28.7	
348	29°44'14"	98°28'06"	Trinity	--	-8.9	4.5	30.5	
348	29°43'12"	98°25'39"	Trinity	--	-4	2.0	35	
348	29°44'42"	98°25'04"	Trinity	--	-2.6	.7	37	
348	29°44'54"	98°24'18"	Trinity	--	-7.5	4.9	37.7	
348	29°43'57"	98°21'22"	Trinity	--	5.2	1.4	42.6	
348	29°43'22"	98°20'26"	Trinity	--	2.3	5.5	44	
348	29°40'04"	98°22'48"	Edwards	--	-12.24	2.1	49.5	
348	29°39'29"	98°21'21"	Edwards	--	-5.26	.3	51.6	
348	29°39'24"	98°21'04"	Edwards	--	0	4.1	51.9	
349	29°33'02"	98°16'23"	--	--	-21	.9	0	0.1 mi above FM 78 at Schertz
349	29°32'35"	98°15'50"	--	--	1.77	.2	.9	
349	29°32'35"	98°15'48"	--	--	-6	11.0	1.1	
349	29°30'07"	98°11'12"	Carrizo-Wilcox	--	2.93	12.9	12.1	
349	29°27'08"	98°07'24"	Carrizo-Wilcox	--	-48	9.1	25	
349	29°21'32"	98°06'22"	Carrizo-Wilcox	--	.8	2.6	34.1	
349	29°21'03"	98°04'26"	Carrizo-Wilcox	--	3.63	6.2	36.7	
349	29°17'15"	98°03'38"	--	Queen City	8.44	6.9	42.9	
349	29°14'47"	98°01'22"	--	Queen City	-2.2	6.6	49.8	
349	29°10'12"	97°59'40"	--	--	1.9	7.2	56.4	
349	29°05'35"	97°58'09"	--	--	-5	8.1	63.6	
349	29°00'49"	97°55'48"	Gulf Coast	--	1.2	7.6	71.7	
350	29°35'37"	98°18'38"	--	--	0	.9	89.6	gaging station at Selma (08185000)
350	29°35'04"	98°18'14"	--	--	.28	1.2	88.7	
350	29°34'09"	98°18'06"	--	--	-28	2.5	87.5	
350	29°33'39"	98°17'30"	--	--	-42	.8	85	
350	29°33'01"	98°16'21"	--	--	1.76	.7	84.2	
350	29°32'35"	98°15'53"	--	--	.79	1.2	83.5	
350	29°32'39"	98°15'19"	--	--	3.58	2.6	82.3	
350	29°33'01"	98°13'49"	Carrizo-Wilcox	--	5.38	3.7	79.7	
350	29°27'07"	98°07'24"	Carrizo-Wilcox	--	4.8	3.4	76	
350	29°30'07"	98°11'10"	Carrizo-Wilcox	--	7.43	13.4	72.6	
350	29°27'07"	98°07'24"	Carrizo-Wilcox	--	5.78	9.6	59.2	
350	29°21'32"	98°06'23"	Carrizo-Wilcox	--	1.7	2.8	49.6	
350	29°21'03"	98°04'26"	Carrizo-Wilcox	--	4.0	1.9	46.8	
350	29°20'00"	98°04'30"	Carrizo-Wilcox	--	.6	1.9	44.9	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
350	29°19'09"	98°04'30"	Carrizo-Wilcox	--	0	1.5	43	
350	29°18'19"	98°03'42"	Carrizo-Wilcox	--	6.1	2.8	41.5	
350	29°17'05"	98°03'36"	--	--	1.95	1.5	38.7	
350	29°16'36"	98°03'01"	--	Queen City	2.47	4.4	37.2	
350	29°14'47"	98°01'21"	--	Queen City	-.63	2.6	32.8	
350	29°13'09"	98°00'31"	--	Queen City	-.1	4.2	30.2	
350	29°10'12"	97°59'40"	--	Sparta	8.5	4.5	26	
350	29°07'35"	97°58'08"	--	--	-3.4	2.8	21.5	
350	29°05'33"	97°58'07"	--	--	4.9	4.6	18.7	
350	29°02'42"	97°56'52"	--	--	-.96	3.7	14.1	
350	29°00'49"	97°55'48"	Gulf Coast	--	.6	6.2	10.4	
350	28°59'23"	97°53'00"	Gulf Coast	--	4.7	1.7	4.2	
351	29°37'49"	98°33'42"	Edwards, Trinity	--	-60.4	3.15	7.21	gaging station (08178585), a.m., at Wilderness Rd
352	29°37'49"	98°33'42"	Edwards, Trinity	--	-66.0	3.15	7.21	gaging station (08178585), p.m., at Wilderness Rd
353	29°37'49"	98°33'42"	Edwards, Trinity	--	-61.6	3.15	7.21	gaging station (08178585), a.m., at Wilderness Rd
354	29°37'49"	98°33'42"	Edwards, Trinity	--	-50.1	3.15	7.21	gaging station (08178585), a.m., at Wilderness Rd
354	29°36'06"	98°32'22"	Edwards	--	-48.7	4.06	4.06	gaging station (08178592), a.m., FM 1604
355	29°37'49"	98°33'42"	Edwards, Trinity	--	-47.2	3.15	7.21	gaging station (08178585), p.m., at Wilderness Rd
355	29°36'06"	98°32'22"	Edwards	--	-36.3	4.06	4.06	gaging station (08178592), p.m., FM 1604
356	29°37'49"	98°33'42"	Edwards, Trinity	--	-32.1	3.15	7.21	gaging station (08178585), a.m., at Wilderness Rd
356	29°36'06"	98°32'22"	Edwards	--	-24.3	4.06	4.06	gaging station (08178592), a.m., FM 1604
357	29°37'49"	98°33'42"	Edwards, Trinity	--	-39.0	3.15	7.21	gaging station (08178585), p.m., at Wilderness Rd
357	29°36'06"	98°32'22"	Edwards	--	-21.7	4.06	4.06	gaging station (08178592), p.m., FM 1604
358	29°37'49"	98°33'42"	Edwards, Trinity	--	-29.4	3.15	7.21	gaging station (08178585), p.m., at Wilderness Rd
359	29°37'49"	98°33'42"	Edwards, Trinity	--	-25.5	3.15	7.21	gaging station (08178585), a.m., at Wilderness Rd
359	29°36'06"	98°32'22"	Edwards	--	-19.5	4.06	4.06	gaging station (08178592), a.m., FM 1604
360	29°27'51"	98°28'03"	--	--	1.51	.9	0	200 ft above Hildebrand Ave
360	29°27'37"	98°28'21"	--	--	.46	1.1	.9	
360	29°27'05"	98°28'42"	--	--	1.44	.3	2	
360	29°26'56"	98°28'45"	--	--	.31	.7	2.3	
360	29°26'29"	98°28'52"	--	--	.53	.7	3	
360	29°26'04"	98°29'00"	--	--	-.82	2.1	3.7	
360	29°24'34"	98°29'39"	--	--	6.2	.9	5.8	
360	29°24'15"	98°29'24"	--	--	2.2	.5	6.7	
360	29°23'58"	98°29'20"	--	--	.3	.8	7.2	
361	29°23'24"	98°29'52"	--	--	12.1	.42	228.7	gaging station (08178050)
361	29°23'15"	98°29'55"	--	--	2.4	2.8	228.28	gaging station (08178505)
361	29°22'33"	98°28'51"	--	--	-3.0	1.97	225.48	

**Table 4.** Gains and losses from gain-loss studies in Texas—Continued

Stream-flow study no.	Latitude of upstream end of subreach	Longitude of upstream end of subreach	Major aquifer outcrop intersected by subreach	Minor aquifer outcrop intercepted by subreach	Gain or loss (-) in subreach (ft <sup>3</sup> /s)	Length of subreach (river mi)	Location of upstream end of ubreach (river mi)	Descriptive location of upstream end of selected subreaches
361	29°21'31"	98°28'06"	Carrizo-Wilcox	--	-2.1	12.35	223.51	
362	30°20'11"	95°06'14"	Gulf Coast	--	-1.5	3.7	19.9	gaging station near Cleveland (08070000)
362	30°17'39"	95°07'05"	Gulf Coast	--	3.0	4.2	16.2	
362	30°15'16"	95°06'41"	Gulf Coast	--	1.8	3.7	12	
362	30°12'51"	95°06'06"	Gulf Coast	--	.9	6.4	8.3	
363	30°20'57"	95°33'36"	Gulf Coast	--	4.17	6.4	37.9	3,200 ft above mouth of Base Creek
363	30°18'51"	95°30'41"	Gulf Coast	--	1.56	4.9	31.5	
363	30°16'05"	95°29'36"	Gulf Coast	--	-.7	3.2	26.6	
363	30°14'40"	95°27'25"	Gulf Coast	--	-.75	2.7	23.4	
363	30°13'58"	95°25'57"	Gulf Coast	--	1.55	4.3	20.7	
363	30°12'20"	95°23'31"	Gulf Coast	--	-.99	3.9	16.4	
363	30°09'47"	95°22'35"	Gulf Coast	--	.18	3.3	12.5	
363	30°08'44"	95°20'40"	Gulf Coast	--	3.9	5.9	9.2	
363	30°05'09"	95°18'28"	Gulf Coast	--	.9	2.7	3.3	
364	31°31'49"	95°31'00"	--	Queen City	-3.44	1.6	26	at bridge on county road 3.5 mi northwest of Grapeland
364	31°30'57"	95°32'08"	--	Queen City	4.38	2.4	24.4	at FM 1272
364	31°29'21"	95°33'27"	--	Queen City	1.2	10.3	22	
364	31°27'52"	95°39'36"	--	Queen City	.13	6.5	11.7	at FM 277
364	31°24'36"	95°39'21"	--	Queen City	.34	3.9	5.2	at FM 2544
364	31°22'42"	95°39'55"	--	Queen City	2.57	1.0	1.3	
365	31°25'51"	95°29'35"	--	Sparta	-.39	2.8	17.5	at bridge on old Grapeland-Crockett Hwy
365	31°25'22"	95°31'45"	--	Sparta	-.93	4.7	14.7	
365	31°24'47"	95°35'00"	--	Queen City	-.1	3.2	10	
365	31°23'57"	95°36'52"	--	Queen City	-.17	6.8	6.8	FM 229
366	30°51'33"	95°23'54"	Gulf Coast	--	2.1	25.9	0	at IH-45 at Riverside gaging station (08066000)
366	30°47'37"	95°09'00"	Gulf Coast	--	5.6	39.8	25.9	
366	30°33'59"	94°56'46"	Gulf Coast	--	3.46	22.5	65.7	
366	30°25'28"	94°51'02"	Gulf Coast	--	26.0	45.3	88.2	gaging station (0866500)

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District Chief  
U.S. Geological Survey  
8027 Exchange Dr.  
Austin, TX 78754–4733