Water-Data Report 2012

08188800 Guadalupe River near Tivoli, TX

Guadalupe Basin
Lower Guadalupe Subbasin

LOCATION.--Lat 28°30′20″, long 96°53′04″ referenced to North American Datum of 1927, Refugio County, TX, Hydrologic Unit 12100204, on right bank at diversion and saltwater barrier, one orifice located upstream and one downstream, 550 ft downstream from Calhoun County Irrigation Canal intake, 0.4 mi downstream from San Antonio River, 3.5 mi north of Tivoli, and at mile 10.2.

DRAINAGE AREA.--10,128 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sept. 1965 to current year (daily maximum stage), Aug. 2000 to current year (daily mean discharges less than 3,250 ft^3/s).

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Nov. 1965 to Aug. 1999.
BIOCHEMICAL DATA: Nov. 1965 to Sept. 1996.
PESTICIDE DATA: Oct. 1970 to Aug. 1999.
RADIOCHEMICAL DATA: Feb. to May 1981

PERIOD OF DAILY RECORD, Water-Quality.--
SPECIFIC CONDUCTANCE: Oct. 1965 to Oct. 1982.
WATER TEMPERATURE: Oct. 1965 to Oct. 1982.

REVISED RECORDS.--WRD TX-68-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.04 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in Sept. 1965, at least 10% of contributing drainage area has been regulated. Many small diversions above station. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height (upstream from barrier), 14.8 ft, Oct. 21, 1998. Maximum gage height (downstream from barrier), 14.7 ft, Oct. 21, 1998.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1936 reached a stage of 11 ft, present site and datum. Maximum stage since at least 1936, that of Oct. 21, 1998. Levees along the Navigation Canal from San Antonio Bay to Victoria were built in 1961, thus decreasing the flood plain.

EXTREMES FOR CURRENT YEAR.--Maximum gage height (upstream from barrier), 7.88 ft, May 15. Maximum gage height (downstream from barrier), 7.79 ft, May 15.

08188800 Guadalupe River near Tivoli, TX—Continued

MAXIMUM GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down
	October		November		December		January		February		March	
1	3.72	1.92	3.85	2.09	3.89	2.09	4.11	2.40	7.51	7.30	5.36	5.14
2	3.77	2.08	3.88	2.28	3.92	2.79	4.10	2.12	7.24	7.02	4.93	4.74
3	3.76	2.08	3.83	1.98	3.86	2.98	4.12	2.29	6.91	6.72	4.42	4.23
4	3.75	1.97	3.75	1.60	4.16	3.11	4.12	2.31	6.69	6.51	4.04	3.87
5	3.78	2.27	3.85	2.07	4.12	2.77	4.11	2.30	6.49	6.30	3.88	3.71
6	3.86	2.47	4.00	2.43	3.91	1.73	4.10	2.24	6.12	5.94	3.60	3.44
7	3.89	2.94	3.96	2.76	3.96	1.59	4.10	2.18	5.80	5.62	3.73	3.65
8	4.15	3.25	4.05	2.65	4.05	1.73	4.10	2.06	6.73	6.47	3.81	3.75
9	4.18	3.18	4.02	2.46	4.33	2.35	4.08	2.40	7.44	7.18	3.51	3.42
10	4.10	3.08	3.99	1.83	4.12	2.55	4.01	1.78	7.44	7.18	3.90	3.81
11	4.35	3.12	3.81	1.88	4.13	2.71	4.10	2.23	7.08	6.85	4.00	3.91
12	4.33	2.95	3.86	2.21	4.13	2.92	4.10	2.14	6.47	6.24	3.98	3.90
13	4.31	2.83	3.97	2.41	4.13	2.87	4.10	1.94	5.86	5.68	3.81	3.73
14	3.98	2.98	3.97	2.28	4.13	2.93	4.10	1.86	5.35	5.19	4.13	4.01
15	3.93	3.19	3.93	2.52	4.12	2.85	4.01	1.63	4.77	4.63	4.70	4.58
16	3.77	3.01	3.89	2.24	4.10	2.55	4.00	1.93	4.19	4.03	5.05	4.93
17	4.67	2.85	3.86	2.09	4.11	2.41	4.05	2.05	4.36	4.20	5.21	5.11
18	4.56	2.97	3.99	2.48	4.11	2.66	4.07	1.89	4.57	4.40	4.93	4.81
19	4.06	2.27	4.00	2.80	4.13	2.97	4.01	2.08	4.39	4.18	4.95	4.82
20	4.02	2.04	4.15	2.84	4.15	2.99	4.09	2.47	5.59	5.27	5.16	5.04
21	4.06	2.25	4.11	3.09	4.12	2.78	4.09	2.40	6.89	6.59	4.81	4.64
22	3.99	2.15	4.13	2.96	4.11	2.82	4.00	2.23	7.69	7.37	5.94	5.75
23	4.00	1.98	4.07	2.20	4.17	2.61	4.10	2.27	7.83	7.50	6.98	6.81
24	3.88	1.92	3.97	2.15	4.10	2.60	4.10	2.69	7.77	7.45	7.71	7.54
25	3.90	1.99	4.09	2.50	4.13	2.74	4.09	2.93	7.45	7.11	7.86	7.69
26	3.91	2.04	4.08	2.68	3.77	2.93	4.02	2.07	7.10	6.79	7.83	7.67
27	4.01	2.22	3.86	1.85	3.71	2.81	4.09	2.52	6.75	6.46	7.66	7.50
28	3.86	1.78	3.79	1.49	4.16	2.64	4.43	4.31	6.36	6.10	7.45	7.29
29	3.87	1.71	3.77	1.44	4.14	2.59	6.56	6.40	5.87	5.64	7.21	7.06
30	3.88	1.94	3.81	1.55	4.12	2.61	7.20	7.00	---	---	7.13	6.98
31	3.88	2.05	---	---	4.11	2.52	7.55	7.33	---	---	7.69	7.51
Month	4.67	3.25	4.15	3.09	4.33	3.11	7.55	7.33	7.83	7.50	7.86	7.69

08188800 Guadalupe River near Tivoli, TX—Continued

MAXIMUM GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down
	April		May		June		July		August		September	
1	7.86	7.66	3.14	3.12	3.24	3.18	3.90	3.26	2.53	2.53	3.76	2.69
2	7.79	7.61	2.99	2.97	3.07	3.01	3.96	3.10	3.82	2.42	3.72	2.65
3	7.50	7.34	2.92	2.91	3.11	3.06	3.87	2.96	3.66	2.48	3.74	2.62
4	7.15	6.99	2.92	2.90	3.02	2.97	3.79	2.89	3.68	2.49	3.76	2.57
5	6.74	6.57	3.15	3.14	2.93	2.90	3.77	2.73	3.64	2.37	3.61	2.31
6	6.34	6.18	3.07	3.05	2.86	2.82	3.75	2.61	3.58	2.23	3.57	2.16
7	5.94	5.78	2.84	2.82	2.80	2.77	3.73	2.61	3.61	2.14	3.53	1.96
8	5.65	5.50	2.80	2.79	2.70	2.69	3.73	2.61	3.65	2.34	3.46	1.83
9	5.29	5.16	2.72	2.69	2.82	2.80	3.74	2.64	3.66	2.40	3.55	2.30
10	4.75	4.62	3.17	3.15	3.19	3.18	3.75	2.45	3.65	2.52	3.61	2.52
11	4.29	4.15	3.86	3.83	3.24	3.24	3.87	2.96	3.57	2.24	3.66	2.69
12	4.21	4.10	4.56	4.49	2.96	2.95	4.17	4.02	3.57	2.19	3.70	2.85
13	4.21	4.13	5.83	5.74	2.82	2.81	5.06	4.98	3.60	2.44	3.70	2.98
14	4.61	4.55	7.73	7.63	2.94	2.94	6.29	6.19	3.58	2.33	3.58	2.83
15	4.78	4.72	7.88	7.79	2.85	---	6.75	6.63	3.58	2.34	3.66	2.50
16	4.58	4.50	7.85	7.77	2.79	---	6.83	6.70	3.56	2.35	3.66	2.63
17	4.34	4.23	7.69	7.61	2.90	---	6.82	6.69	3.55	2.41	3.74	2.51
18	4.16	4.07	7.33	7.26	3.23	---	6.59	6.47	3.54	2.28	4.10	3.52
19	3.99	3.89	7.50	7.41	3.42	---	6.23	6.11	3.56	2.33	3.95	3.70
20	3.93	3.84	7.75	7.64	3.42	3.42	5.59	5.48	3.49	2.17	3.89	3.72
21	3.51	3.41	7.74	7.63	3.31	3.31	4.71	4.62	3.48	2.38	4.70	4.66
22	3.15	3.06	7.55	7.46	3.19	3.20	4.03	3.94	3.60	2.68	5.28	5.23
23	3.06	2.96	7.17	7.07	3.23	3.23	3.64	3.57	4.04	3.10	5.22	5.18
24	3.21	3.18	6.79	6.69	3.28	3.27	3.38	3.33	3.96	3.57	4.77	4.74
25	3.33	3.31	6.40	6.32	3.17	3.17	3.41	3.38	3.95	3.62	3.91	3.90
26	3.29	3.26	5.98	5.90	3.17	3.18	3.44	3.40	3.74	3.54	3.49	3.47
27	3.06	3.04	5.48	5.41	4.04	3.47	3.10	3.07	4.18	3.38	3.10	3.10
28	3.08	3.06	4.96	4.89	4.15	3.30	2.86	2.83	4.08	2.87	2.93	2.93
29	3.14	3.12	4.45	4.38	3.92	3.26	2.80	2.78	3.92	2.53	3.39	3.39
30	3.16	3.14	3.83	3.78	3.83	3.09	2.58	2.56	3.73	2.60	3.38	3.38
31	---	---	3.47	3.41	---	---	2.56	2.55	3.76	2.60	---	---
Month	7.86	7.66	7.88	7.79	4.15	---	6.83	6.70	4.18	3.38	5.28	5.23

08188800 Guadalupe River near Tivoli, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	312	492	553	739	3,400	1,970	2,880	936	1,240	562	588	591
2	367	449	820	e786	3,200	1,740	2,810	874	1,130	571	520	504
3	334	407	875	718	3,050	1,630	2,730	882	1,050	535	548	518
4	318	447	711	e779	2,940	1,600	2,640	871	1,030	498	515	559
5	321	400	649	e785	2,880	1,510	2,470	824	1,040	506	506	504
6	295	397	631	e956	2,690	1,420	2,320	818	963	561	514	443
7	319	396	650	e1,160	2,620	1,350	2,180	815	928	522	504	441
8	324	395	661	e1,030	2,750	1,220	2,030	750	966	496	473	445
9	360	e375	684	e710	3,260	1,250	1,780	826	945	517	465	417
10	531	409	609	712	3,380	1,300	1,650	998	886	545	468	395
11	533	382	695	794	3,180	1,360	1,530	1,160	900	584	439	377
12	501	389	724	896	2,770	1,350	1,410	1,560	841	1,220	426	361
13	703	470	717	676	2,450	1,290	1,370	2,040	766	1,810	431	351
14	1,050	341	662	718	2,140	1,330	1,270	2,630	782	2,100	409	362
15	1,130	309	e650	695	1,800	1,590	1,230	2,980	716	2,490	406	367
16	976	301	e678	675	1,520	1,790	1,360	2,960	735	2,560	390	391
17	722	346	e948	691	1,540	1,780	1,370	2,950	763	2,600	390	452
18	770	328	e1,020	660	1,740	1,680	1,340	2,860	697	2,510	369	1,100
19	652	432	e740	683	1,610	1,620	1,280	2,790	671	2,290	360	1,330
20	665	610	660	673	1,900	1,570	1,230	2,840	644	2,020	331	1,430
21	579	685	626	615	2,410	1,620	1,190	2,920	660	1,730	343	1,710
22	593	641	717	648	2,680	1,830	1,140	2,900	678	1,470	335	2,070
23	583	591	706	602	2,920	2,470	1,110	2,740	686	1,250	670	2,110
24	506	525	690	669	2,940	2,660	1,050	2,520	670	1,130	1,100	1,740
25	538	444	768	632	2,860	2,920	1,020	2,360	745	1,070	1,220	1,390
26	526	482	1,020	673	2,720	2,960	1,050	2,160	638	975	1,220	1,170
27	512	471	1,130	760	2,490	2,920	972	1,960	532	909	1,130	1,030
28	529	578	1,020	1,850	2,320	2,850	950	1,780	599	811	986	924
29	570	586	898	2,850	2,120	2,780	937	1,610	629	782	832	977
30	510	426	896	3,290	---	2,730	926	1,440	526	691	703	1,210
31	465	---	807	3,520	---	2,690	---	1,280	---	625	628	---
Total	17,094	13,504	23,615	31,645	74,280	58,780	47,225	57,034	24,056	36,940	18,219	25,669
Mean	551	450	762	1,021	2,561	1,896	1,574	1,840	802	1,192	588	856
Max	1,130	685	1,130	3,520	3,400	2,960	2,880	2,980	1,240	2,600	1,220	2,110
Min	295	301	553	602	1,520	1,220	926	750	526	496	331	351
Ac-ft	33,910	26,790	46,840	62,770	147,300	116,600	93,670	113,100	47,720	73,270	36,140	50,910