Water-Data Report 2011

08176500 Guadalupe River at Victoria, TX

Guadalupe Basin
Lower Guadalupe Subbasin

LOCATION.--Lat 28°47′34″, long 97°00′46″ referenced to North American Datum of 1927, Victoria County, TX, Hydrologic Unit 12100204, on left bank near left downstream corner of downstream bridge of two bridges on U.S. Highway 77/59 Business (Sw Moody St.) in Victoria, 1,200 ft upstream from Southern Pacific Railroad Co. bridge, 15 mi upstream from Coleto Creek, and at mile 50.7.

DRAINAGE AREA.--5,198 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Nov. 1934 to current year. Gage-height records collected in this vicinity since 1904 are contained in reports of the National Weather Service.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Aug. 1945 to Aug. 1994.
BIOCHEMICAL DATA: Oct. 1959 to Aug. 1994.
BIOLOGICAL DATA: Jan. 1973 to Sept. 1981.
PESTICIDE DATA: Feb. 1974 to Aug. 1981.
RADIOCHEMICAL DATA: Feb. 1981 to July 1981.
SEDIMENT DATA: Apr. 1959, Jan. 1973 to Aug. 1994.

PERIOD OF DAILY RECORD, Water-Quality.--

SPECIFIC CONDUCTANCE: Oct. 1945 to Sept. 1981.
WATER TEMPERATURE: Nov. 1950 to Sept. 1981.

REVISED RECORDS.--WSP 2123: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 29.15 ft above NGVD of 1929. Nov. 1, 1934, to July 27, 1992, at site just upstream from pier on left bank of upstream bridge at same datum. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in 1934, at least 10% of contributing drainage area has been regulated. There are many diversions above station. The city of Victoria releases wastewater effluent into the river below this station. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1929, reached a stage of 30.2 ft, present site and datum, maximum stage since at least 1833, that of July 3, 1936.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,330	802	823	738	799	691	633	366	310	369	184	157
2	1,280	912	803	674	776	764	613	349	328	359	185	157
3	e1,240	871	771	795	973	696	620	367	302	338	187	151
4	e1,220	934	742	762	950	659	571	356	310	320	188	148
5	e1,200	1,040	797	765	742	671	649	333	308	263	184	141
6	e1,230	849	785	759	716	672	551	356	298	266	182	141
7	e1,200	839	712	721	654	609	566	391	280	282	179	154
8	1,070	868	755	810	579	674	576	412	299	253	171	138
9	1,000	779	862	909	570	718	539	412	294	271	167	129
10	1,020	918	822	912	572	689	474	411	289	300	159	129
11	1,030	849	792	999	583	684	495	476	292	289	160	137
12	1,120	839	808	1,150	680	637	514	420	281	246	159	140
13	1,130	891	742	1,020	719	653	572	372	298	245	167	139
14	1,060	935	707	879	713	628	424	457	291	281	160	137
15	978	936	802	868	708	625	534	536	305	340	161	132
16	1,030	881	765	1,120	717	677	508	581	292	278	151	150
17	929	906	792	1,510	757	654	430	394	367	245	152	163
18	1,020	874	707	1,410	773	621	391	360	339	212	167	171
19	903	829	781	1,540	785	593	471	327	289	187	220	182
20	917	855	743	1,340	751	554	503	305	273	170	209	184
21	969	849	775	1,080	683	618	459	329	265	159	184	201
22	925	810	771	940	772	648	469	387	391	166	174	264
23	926	769	697	787	771	627	428	374	460	196	167	177
24	932	912	720	749	759	613	487	401	363	208	162	157
25	900	818	824	836	758	616	462	442	471	216	186	188
26	1,000	839	734	862	755	622	386	400	540	211	171	190
27	904	825	761	768	650	595	462	378	413	211	158	198
28	942	802	822	774	648	544	560	332	358	200	160	192
29	833	724	756	758	---	549	510	342	360	195	159	188
30	834	802	774	770	---	685	405	304	340	186	154	199
31	831	---	737	788	---	639	---	315	---	186	154	---
Total	31,903	25,757	23,882	28,793	20,313	19,925	15,262	11,985	10,006	7,648	5,321	4,934
Mean	1,029	859	770	929	725	643	509	387	334	247	172	164
Max	1,330	1,040	862	1,540	973	764	649	581	540	369	220	264
Min	831	724	697	674	570	544	386	304	265	159	151	129
Ac-ft	63,280	51,090	47,370	57,110	40,290	39,520	30,270	23,770	19,850	15,170	10,550	9,790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,066	2,014	1,711	1,716	1,975	1,805	2,087	2,722	2,719	2,041	1,078	1,751
Max	30,440	17,500	9,753	10,650	17,250	10,600	10,320	12,990	23,750	18,430	7,406	11,340
(WY)	(1999)	(2005)	(1992)	(1992)	(1992)	(1992)	(1977)	(1941)	(1987)	(1936)	(2007)	(1981)
Min	100	59.6	183	118	255	158	157	224	59.7	53.9	37.6	51.6
(WY)	(1956)	(1957)	(1956)	(1957)	(1956)	(1956)	(1956)	(1956)	(1956)	(1956)	(1956)	(1956)

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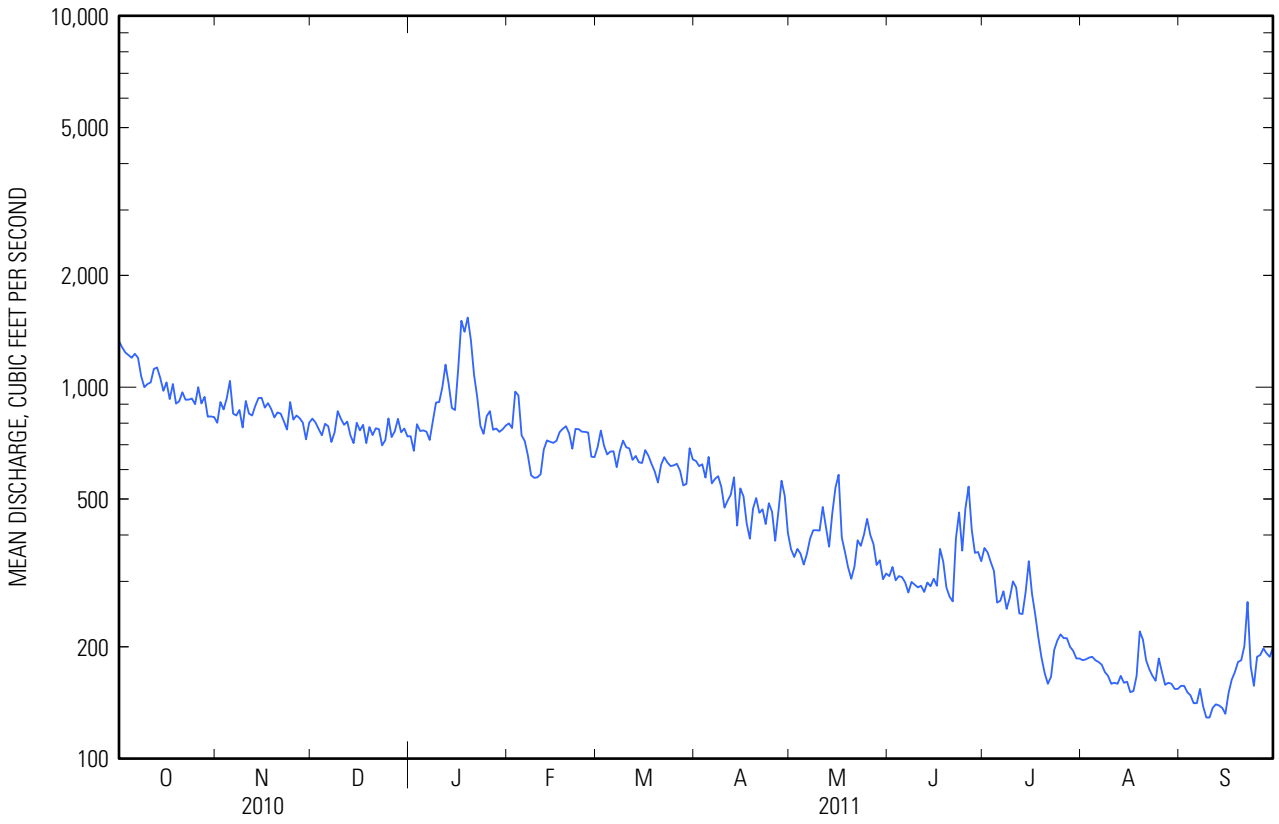
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1935 - 2011	
Annual total	734,351		205,729			
Annual mean	2,012		564		1,960	
Highest annual mean					6,993	1992
Lowest annual mean					132	1956
Highest daily mean	14,700	Jan 19	1,540	Jan 19	307,000	Oct 20, 1998
Lowest daily mean	552	Jan 14	129	Sep 9	14	Aug 20, 1956
Annual seven-day minimum	742	Dec 18	135	Sep 9	22	Sep 29, 1956
Maximum peak flow			1,620	Jan 17	[i]466,000	Oct 20, 1998
Maximum peak stage			8.84	Jan 17	[a]34.04	Oct 20, 1998
Annual runoff (ac-ft)	1,457,000		408,100		1,420,000	
10 percent exceeds	4,080		933		3,770	
50 percent exceeds	1,410		576		1,000	
90 percent exceeds	775		167		366	

[i] From indirect measurement of peak flow.
[a] From floodmark.