Water-Data Report 2010

08175800 Guadalupe River at Cuero, TX

Guadalupe Basin
Lower Guadalupe Subbasin

LOCATION.--Lat 29°05′25″, long 97°19′46″ referenced to North American Datum of 1927, De Witt County, TX, Hydrologic Unit 12100204, on left bank at downstream side of bridge on State Highway 183/77, 2.5 mi west of Cuero.

DRAINAGE AREA.--4,934 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1964 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Dec. 1966 to Aug. 1985.
BIOCHEMICAL DATA: Dec. 1966 to Sept. 1973.
RADIOCHEMICAL DATA: Dec. 1980 to June 1981.

REVISED RECORDS.--WDR TX-69-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 128.64 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage in 1964, at least 10% of contributing drainage area has been regulated. Flow is affected at times by discharge from the flood-detention pools of 53 floodwater-retarding structures. These structures control runoff from 302 mi^2 in the Comal, San Marcos, and Plum Creek drainage basins. 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 OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900 probably occurred July 2, 1936, 44.33 ft, present site and datum, from information by Texas Department of Transportation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	569	1,690	1,190	1,060	2,430	2,340	1,520	1,580	1,320	1,300	1,060	728
2	719	1,370	1,750	1,020	2,080	2,390	1,590	1,550	1,340	1,350	948	736
3	620	1,190	4,720	1,030	1,870	2,410	1,470	1,470	1,540	1,450	989	770
4	6,370	1,130	5,150	938	2,510	2,420	1,400	1,490	3,120	1,480	957	805
5	16,100	1,040	2,720	931	6,400	2,400	1,450	1,450	2,940	1,690	1,030	1,230
6	15,800	999	1,590	937	9,580	2,310	1,500	1,430	2,140	1,540	1,210	917
7	11,900	996	1,280	988	7,940	2,030	1,510	1,330	1,570	1,420	982	993
8	5,020	971	1,250	965	4,580	1,850	1,480	1,330	1,410	1,560	701	3,000
9	1,810	974	1,350	1,240	3,520	1,790	1,430	1,350	1,390	2,460	670	4,090
10	1,860	1,200	1,150	1,030	3,670	1,830	1,400	1,160	3,440	2,400	871	6,870
11	2,010	1,890	1,080	864	4,420	1,720	1,440	1,260	10,700	2,290	865	5,820
12	2,180	1,550	1,280	803	7,220	1,930	1,350	1,440	13,000	1,850	880	3,250
13	1,610	1,090	950	517	11,500	1,960	1,440	1,260	5,810	1,720	781	2,350
14	1,190	999	1,040	560	12,900	1,890	1,390	1,290	3,130	1,590	808	2,080
15	958	960	1,100	1,790	7,270	1,840	1,380	3,230	2,710	1,500	857	1,880
16	1,020	933	1,010	8,600	3,470	1,760	1,390	4,950	2,460	1,510	696	1,870
17	950	881	1,050	12,900	2,870	1,920	1,390	6,460	2,260	1,410	839	1,900
18	774	922	1,210	14,800	2,440	1,860	3,490	8,150	2,080	1,420	812	2,030
19	742	837	1,580	8,810	2,260	1,780	4,950	5,750	2,040	1,270	766	2,030
20	714	2,740	1,380	3,590	2,130	1,890	3,730	5,750	2,870	1,170	740	2,060
21	713	12,100	1,120	2,520	2,110	1,910	2,650	4,940	2,190	1,240	741	1,810
22	1,090	17,900	1,050	2,250	2,180	1,830	2,270	3,460	1,240	1,110	668	1,540
23	3,940	18,500	983	1,930	2,150	1,870	2,390	2,160	951	1,130	731	1,300
24	4,370	9,070	969	1,570	2,110	1,950	3,840	1,800	1,090	1,030	796	1,530
25	2,940	3,100	942	1,640	2,110	1,720	3,870	1,810	1,380	936	756	1,530
26	1,750	1,650	1,010	1,550	2,230	1,770	2,460	1,680	1,820	1,090	739	1,530
27	3,850	1,460	961	1,490	2,340	1,970	1,900	1,630	1,350	1,000	663	1,360
28	8,080	1,370	943	1,400	2,340	1,860	1,730	1,830	519	1,110	663	1,210
29	7,320	1,230	939	1,380	---	1,720	1,790	1,480	1,010	1,280	716	1,280
30	3,370	1,180	1,060	1,520	---	1,660	1,900	1,120	1,210	1,250	682	1,160
31	1,780	---	1,020	1,790	---	1,580	---	1,170	---	1,210	711	---
Total	112,119	91,922	44,827	82,413	118,630	60,160	61,500	76,760	80,030	44,766	25,328	59,659
Mean	3,617	3,064	1,446	2,658	4,237	1,941	2,050	2,476	2,668	1,444	817	1,989
Max	16,100	18,500	5,150	14,800	12,900	2,420	4,950	8,150	13,000	2,460	1,210	6,870
Min	569	837	939	517	1,870	1,580	1,350	1,120	519	936	663	728
Ac-ft	222,400	182,300	88,910	163,500	235,300	119,300	122,000	152,300	158,700	88,790	50,240	118,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,177	2,197	1,943	1,869	2,129	1,941	2,185	2,746	2,983	1,949	1,303	1,831
Max	30,990	14,050	10,500	10,830	16,740	10,370	11,100	12,270	21,470	15,860	7,512	11,210
(WY)	(1999)	(2005)	(1992)	(1992)	(1992)	(1992)	(1977)	(1972)	(1987)	(2002)	(2007)	(1981)
Min	242	407	432	397	403	504	381	309	242	95.7	112	124
(WY)	(1990)	(2007)	(1990)	(1990)	(1990)	(1967)	(1971)	(1984)	(1984)	(1984)	(1984)	(1984)

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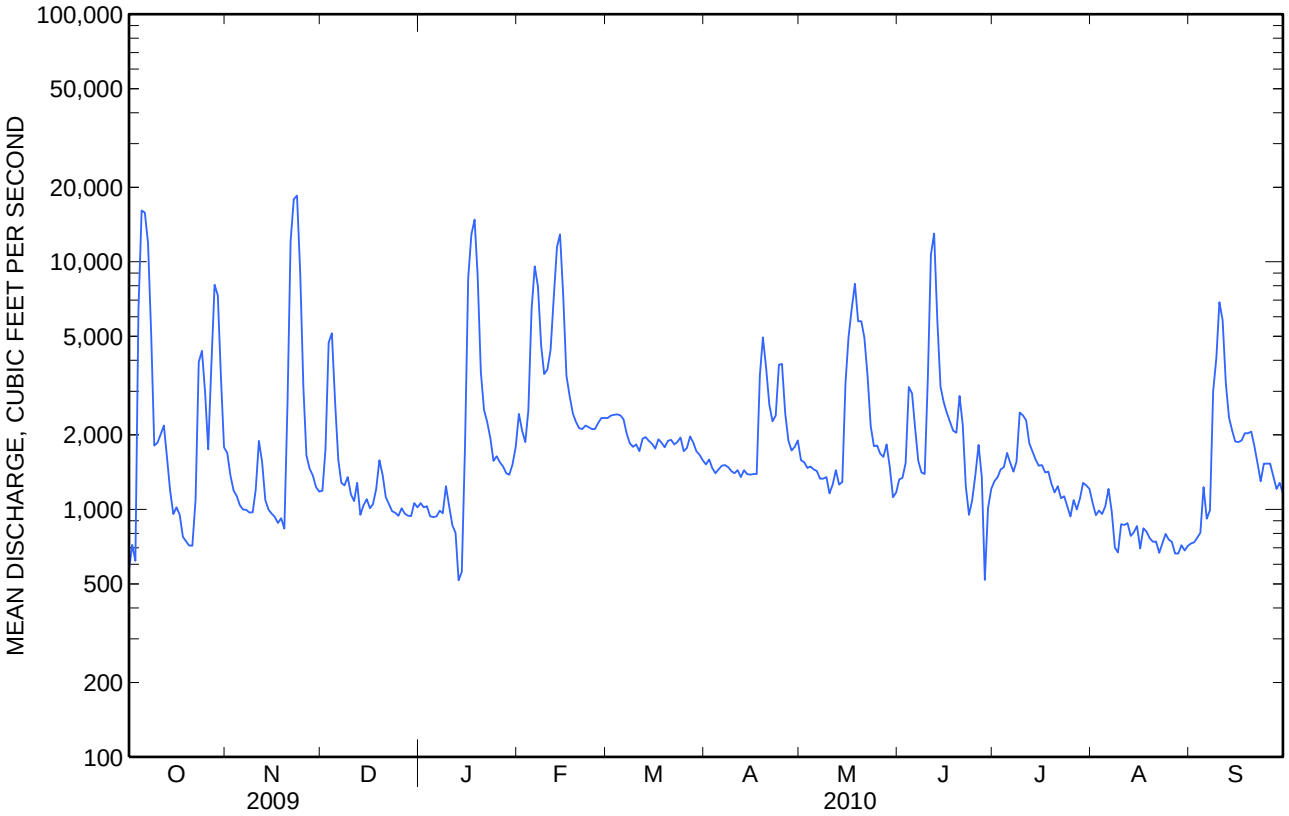
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1964 - 2010	
Annual total	394,888		858,114			
Annual mean	1,082		2,351		2,127	
Highest annual mean					6,885	1992
Lowest annual mean					435	1984
Highest daily mean	18,500	Nov 23	18,500	Nov 23	338,000	Oct 20, 1998
Lowest daily mean	130	Jul 21	517	Jan 13	28	Jul 22, 1984
Annual seven-day minimum	154	Jul 28	700	Aug 27	45	Jul 18, 1984
Maximum peak flow			20,900	Nov 23	[i]473,000	Oct 20, 1998
Maximum peak stage			29.59	Nov 23	[a]50.35	Oct 20, 1998
Annual runoff (ac-ft)	783,300		1,702,000		1,541,000	
10 percent exceeds	1,750		4,640		4,280	
50 percent exceeds	465		1,520		1,090	
90 percent exceeds	176		850		467	

[i] From indirect measurement of peak flow.

[a] From floodmark.