Water-Data Report 2012

08160400 Colorado River above La Grange, TX

Lower Colorado Basin
Lower Colorado-Cummins Subbasin

LOCATION.--Lat 29°54′44″, long 96°54′13″ referenced to North American Datum of 1927, Fayette County, TX, Hydrologic Unit 12090301, at right downstream end of bridge on new State Highway 71, 1.4 mi upstream from Buckners Creek, and at mile 177.

DRAINAGE AREA.--40,874 mi^2 of which 11,403 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Dec. 1979 to Sept. 1982 (discharge measurements only), Apr. 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 210.04 ft above NGVD of 1929. Dec. 12, 1979, to Sept. 30, 1982, discharge measurements only were made at old State Highway 71 bridge, 1.0 mi downstream and at different datum. Radio telemeter at station. Satellite telemeter at station.

COOPERATION.--Lower Colorado River Authority provides operation and maintenance of the gage and verification of stage-discharge relation at low stages. U.S. Geological Survey maintains stage-discharge relation at medium to high stages, computes, and publishes streamflow record.

REMARKS.--Records fair. Since installation of gage in 1988, at least 10% of contributing drainage area has been regulated. At times, low-flow releases from Lake Travis are made for generation of electric power and to fulfill downstream water contracts. There are many diversions above station for irrigation and municipal supply. 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 1869, about 56.7 ft on July 9, 1869 (from marble high-water marker in LaGrange). Stages of other floods are as follows: Dec. 5, 1913, 56.4 ft, from floodmark; June 17, 1935, 50.84 ft, from floodmarks (discharge 255,000 ft^3/s from rating curve extended above 200,000 ft^3/s); July 27, 1938, 42.95 ft (discharge, 200,000 ft^3/s). These data were collected and published at streamflow station Colorado River at La Grange (08160500) at a site 2.6 mi downstream and at a datum different than at present site.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	859	261	354	510	875	455	1,030	628	294	476	130	309
2	819	253	301	473	885	438	849	616	280	501	115	257
3	767	239	275	462	858	423	879	555	294	509	104	294
4	715	252	284	383	795	404	854	416	304	485	114	305
5	696	249	546	336	3,650	374	814	416	287	455	119	258
6	684	245	406	329	2,890	373	705	385	275	417	113	248
7	645	246	774	319	1,280	363	677	427	295	393	114	285
8	612	240	779	315	938	355	697	749	319	365	156	301
9	655	239	588	325	777	414	703	753	279	382	202	299
10	689	229	535	313	682	1,010	688	775	351	451	237	289
11	693	227	505	309	604	4,520	686	1,420	366	1,650	264	288
12	827	228	490	591	561	6,070	696	3,670	358	1,870	267	290
13	775	233	489	478	594	3,150	661	3,930	490	1,820	238	322
14	607	234	481	378	654	1,610	663	1,530	440	1,060	236	392
15	499	249	474	330	589	1,140	659	1,360	359	685	238	421
16	388	271	481	308	687	898	665	3,130	309	602	248	448
17	388	274	563	296	531	742	660	2,150	310	2,850	247	756
18	389	256	675	287	6,620	650	652	1,650	320	3,400	244	812
19	355	254	701	287	8,000	594	671	1,060	313	1,340	442	1,300
20	349	293	583	287	5,280	9,220	715	841	306	785	691	906
21	346	274	531	279	2,160	20,700	724	699	312	514	1,330	590
22	313	257	589	274	1,370	13,400	738	582	347	376	914	442
23	276	272	686	276	1,050	3,400	697	512	313	279	643	380
24	276	305	1,220	277	857	2,150	768	470	308	233	558	342
25	264	355	952	2,600	716	1,650	684	410	397	207	508	306
26	258	452	731	21,100	616	1,360	675	389	429	194	485	269
27	243	359	641	17,300	533	1,170	667	384	442	175	484	242
28	260	306	506	2,730	493	1,040	610	356	427	154	470	227
29	259	426	426	1,600	470	1,480	601	317	423	149	417	265
30	273	454	531	1,200	---	2,500	618	319	436	147	383	266
31	257	---	490	1,000	---	1,360	---	318	---	138	349	---
Total	15,436	8,432	17,587	55,952	46,015	83,413	21,406	31,217	10,383	23,062	11,060	12,109
Mean	498	281	567	1,805	1,587	2,691	714	1,007	346	744	357	404
Max	859	454	1,220	21,100	8,000	20,700	1,030	3,930	490	3,400	1,330	1,300
Min	243	227	275	274	470	355	601	317	275	138	104	227
Ac-ft	30,620	16,720	34,880	111,000	91,270	165,400	42,460	61,920	20,590	45,740	21,940	24,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,560	1,711	2,033	2,142	2,810	3,058	2,237	2,732	3,768	3,618	1,708	1,637
Max	10,510	14,770	16,350	18,640	31,160	18,080	7,333	8,290	15,180	23,280	5,544	3,828
(WY)	(1999)	(2005)	(1992)	(1992)	(1992)	(1992)	(1997)	(1992)	(1997)	(2007)	(2007)	(2007)
Min	476	244	248	243	260	380	714	1,007	346	744	357	404
(WY)	(1997)	(1989)	(1990)	(2009)	(2009)	(2000)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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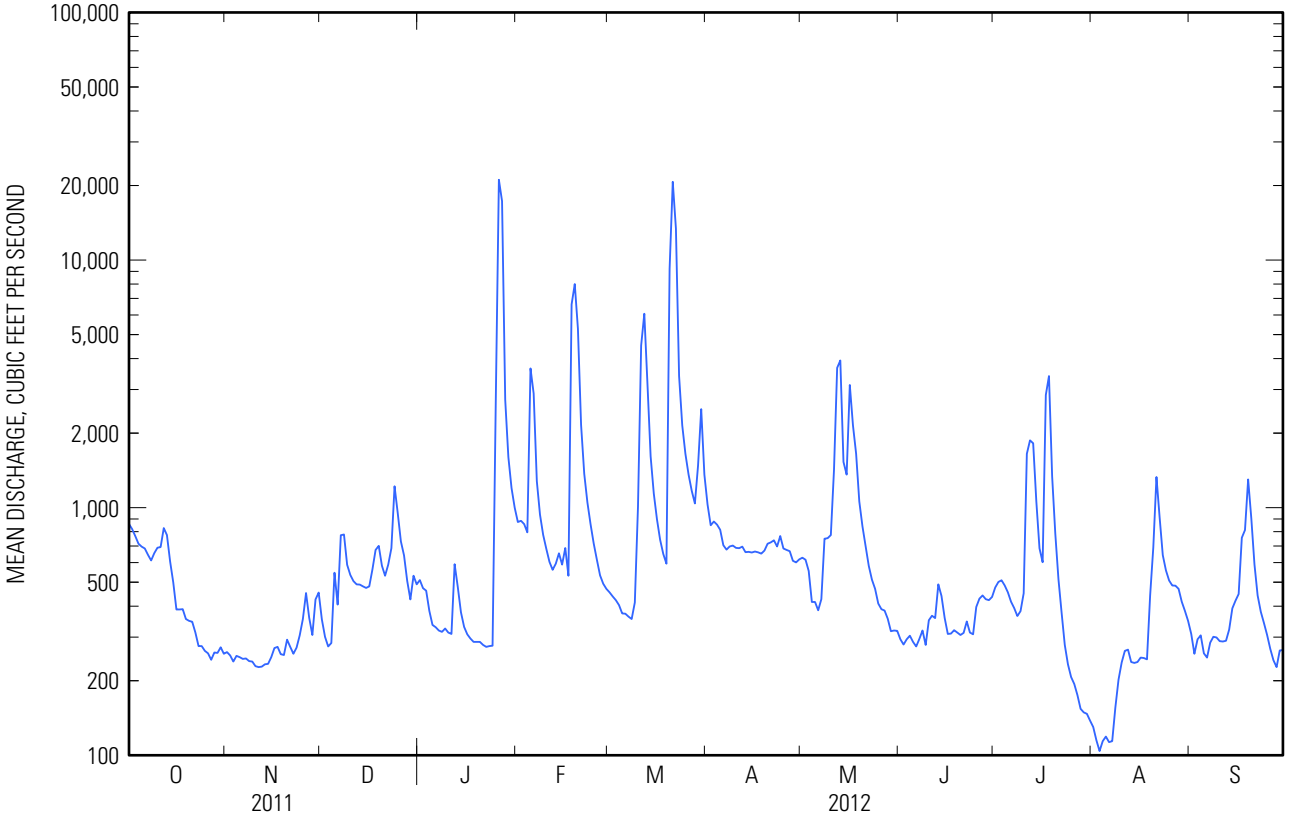
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1988 - 2012	
Annual total	360,000		336,072			
Annual mean	986		918		2,429	
Highest annual mean					9,913	1992
Lowest annual mean					918	2012
Highest daily mean	3,410	May 14	21,100	Jan 26	84,000	Dec 23, 1991
Lowest daily mean	227	Nov 11	104	Aug 3	104	Aug 3, 2012
Annual seven-day minimum	233	Nov 8	116	Aug 1	116	Aug 1, 2012
Maximum peak flow			28,300	Jan 27	89,800	Oct 20, 1998
Maximum peak stage			25.01	Jan 27	[P]45.47	Oct 20, 1998
Annual runoff (ac-ft)	714,100		666,600		1,760,000	
10 percent exceeds	1,810		1,360		4,350	
50 percent exceeds	906		458		1,330	
90 percent exceeds	306		248		376	

[P] Observed.