Water-Data Report 2013

09402300 LITTLE COLORADO RIVER ABOVE THE MOUTH NEAR DESERT VIEW, AZ

Little Colorado Basin
Lower Little Colorado Subbasin

LOCATION.--Lat 36°11′43″, long 111°46′35″ referenced to North American Datum of 1927, in SE ¼ SW ¼ SW ¼ sec.32, T.32 ½ N., R.6 E., Coconino County, AZ, Hydrologic Unit 15020016, Gila and Salt River meridian, in the Grand Canyon National Park, on the left bank, about 0.75 miles upstream of the mouth, about 62 miles west southwest of Lees Ferry, 55 miles downstream of Cameron, and about 11 miles east northeast (line of sight or flight miles) from Desert View.

DRAINAGE AREA.--26,972 mi^2, of which 368 mi^2 are noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1990 to July 1990, at a site about 2,500 ft downstream, August 1990 to January 1993, May 24, 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,700 ft above sea level, from topographic map. Prior to August 1, 1990, on the right bank about 2,500 ft downstream, datum 2,720 ft above sea level, from topographic map, August 1990 to January 1993, datum 2,745 ft above sea level.

REMARKS.--Records fair. Diversions above the station for irrigation of about 32,000 acres. Some regulation by reservoirs, combined capacity of the principal reservoirs, about 135,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded peak discharge, 7,860 ft^3/s, Jan. 8, 1993, gage height, 55.14 ft. Maximum discharge 18,200 ft^3/s, Jan. 12, 1993, based on records at 09402000, Little Colorado River near Cameron, gage height unknown; minimum recorded daily discharge, 194 ft^3/s, Mar. 3, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--About 120,000 ft^3/s, Sept. 20 or 21,1923, gage height unknown, based on discharge at 09401000, Little Colorado River at Grand Falls.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,330 ft^3/s, July 27, gage height, 10.56 ft; minimum daily discharge, e206 ft^3/s, Mar. 10.

e, estimated.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 09402300, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/09402300.2013.pdf

09402300 LITTLE COLORADO RIVER ABOVE THE MOUTH NEAR DESERT VIEW, AZ—Continued

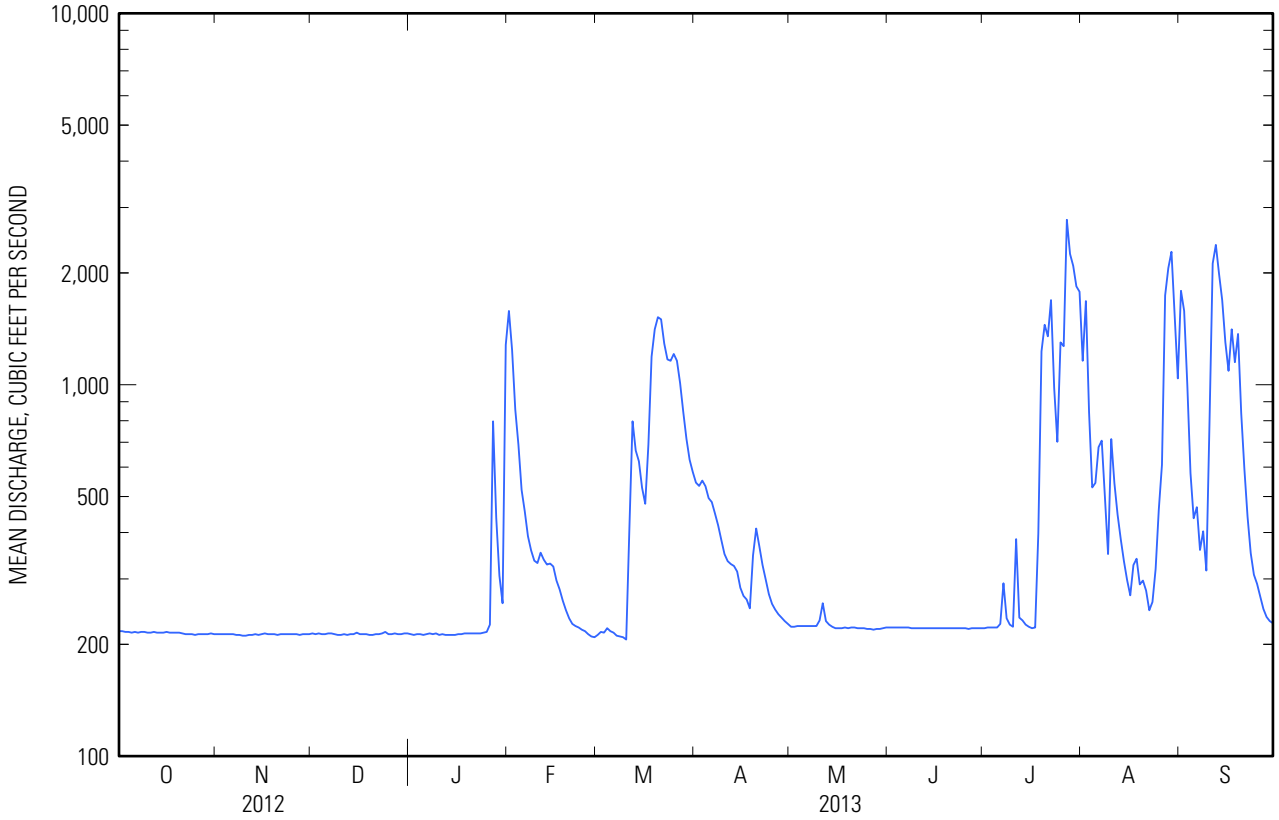
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	217	213	214	e213	1,580	212	545	223	e222	221	1,160	1,790
2	217	213	e213	212	1,240	216	534	223	e222	e222	1,680	1,580
3	e216	213	e214	213	858	e215	552	224	e222	e222	844	997
4	e216	213	213	213	689	221	533	e224	e222	e222	529	578
5	e215	213	213	212	521	217	495	e224	e222	e222	544	437
6	216	213	214	213	456	e215	483	e224	222	e227	679	468
7	215	212	214	214	391	e211	450	e224	222	292	707	359
8	216	e212	213	213	e358	e210	e418	224	221	235	499	403
9	216	e211	e212	214	336	e209	382	224	e221	226	350	316
10	215	e211	212	e212	331	206	350	232	e221	e223	714	795
11	215	212	213	e213	353	410	335	258	e221	e384	543	2,120
12	e216	212	e212	212	338	797	329	231	e221	e236	447	2,380
13	e215	213	e213	212	328	665	e325	226	e221	232	384	1,990
14	215	212	e213	212	330	622	e314	e223	e221	e226	335	1,690
15	215	213	e215	212	324	528	e284	e221	e221	e223	298	1,300
16	216	214	e213	213	297	478	e270	e221	e221	221	271	1,090
17	215	213	e213	213	281	690	e264	e221	e221	222	327	1,410
18	215	e213	e213	214	262	1,190	250	e222	e221	e398	340	1,150
19	215	213	e212	214	e247	1,410	347	e221	e221	1,230	290	1,370
20	e215	212	212	214	e235	1,520	410	e222	e221	1,450	297	838
21	e214	213	213	214	e227	1,500	367	e222	e221	1,350	279	593
22	e213	213	213	214	224	1,290	327	e221	e221	1,690	247	441
23	e213	213	214	214	e222	1,170	299	e221	e221	980	260	352
24	e213	213	e216	215	e219	1,160	273	e221	e221	702	319	308
25	e212	213	213	216	217	1,210	257	e220	e221	1,300	461	e291
26	213	213	213	226	213	1,160	248	e220	e220	1,270	609	e269
27	213	212	214	797	210	1,010	241	e219	221	2,780	1,740	e249
28	213	213	213	438	209	844	236	e220	221	2,250	2,060	237
29	213	213	213	306	---	715	231	e220	e221	2,090	2,280	231
30	214	e213	214	258	---	628	e227	e221	e221	1,840	1,540	228
31	213	---	e214	1,280	---	582	---	e222	---	1,780	1,040	---
Total	6,655	6,380	6,611	8,636	11,496	21,711	10,576	6,939	6,636	25,166	22,073	26,260
Mean	215	213	213	279	411	700	353	224	221	812	712	875
Max	217	214	216	1,280	1,580	1,520	552	258	222	2,780	2,280	2,380
Min	212	211	212	212	209	206	227	219	220	221	247	228
Med	215	213	213	214	326	628	328	222	221	292	499	586
Ac-ft	13,200	12,650	13,110	17,130	22,800	43,060	20,980	13,760	13,160	49,920	43,780	52,090
Cfsm	0.01	0.01	0.01	0.01	0.02	0.03	0.01	0.01	0.01	0.03	0.03	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	303	245	300	388	563	663	556	267	227	336	611	421
Max	645	347	654	1,454	2,092	1,267	1,471	492	345	812	1,232	875
(WY)	(2007)	(2005)	(2008)	(2005)	(2005)	(2008)	(2010)	(1992)	(1992)	(2013)	(2010)	(2013)
Min	202	212	213	217	220	224	219	213	207	219	218	241
(WY)	(1992)	(2009)	(2013)	(2006)	(2006)	(2006)	(2006)	(2011)	(1990)	(2005)	(2009)	(2005)

09402300 LITTLE COLORADO RIVER ABOVE THE MOUTH NEAR DESERT VIEW, AZ—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1990 - 2013	
Annual total	112,761		159,139			
Annual mean	308		436		401	
Highest annual mean					631	2005
Lowest annual mean					290	2009
Highest daily mean	2,450	Sep 12	2,780	Jul 27	5,970	Feb 24, 2005
Lowest daily mean	211	Nov 9	206	Mar 10	194	Mar 1, 1991
Annual seven-day minimum	212	Nov 6	212	Nov 6	200	Sep 29, 1991
Annual runoff (ac-ft)	223,700		315,700		290,800	
Annual runoff (cfsm)	0.011		0.016		0.015	
10 percent exceeds	461		1,160		815	
50 percent exceeds	221		222		228	
90 percent exceeds	213		213		214