



Water-Data Report 2010

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, T32HN R05E G, Coconino County, AZ, Hydrologic Unit 15020016, 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 mi², of which 368 mi² 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 ft³/s, Jan. 8, 1993, gage height, 55.14 ft. Maximum discharge 18,200 ft³/s, Jan. 12, 1993, based on records at 09402000, Little Colorado River near Cameron, gage height unknown; minimum recorded daily discharge, 194 ft³/s, Mar. 3, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--About 120,000 ft³/s, Sept. 20 or 21, 1923, gage height unknown, based on discharge at 09401000, Little Colorado River at Grand Falls.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 22	1230	4,320	9.92
Aug 2	0800	4,110	9.77
Aug 7	2230	*5,020	*10.37

Minimum daily discharge, 206 ft³/s, May 31, June 8, 18.

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

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	218	219	220	218	1,090	240	1,450	677	207	208	1,890	289
2	218	218	220	220	700	237	1,750	686	208	e210	2,830	279
3	e218	219	219	220	508	235	1,920	691	207	e209	2,470	251
4	e218	219	218	220	389	230	1,960	604	208	208	2,760	237
5	e219	219	219	219	338	228	1,900	502	207	208	3,470	229
6	219	219	219	220	314	228	1,600	428	207	209	4,290	226
7	219	219	e224	220	294	232	1,450	368	e207	209	4,770	223
8	219	219	e228	220	291	226	1,650	322	206	209	3,810	220
9	219	218	239	219	273	274	1,830	297	e208	208	2,220	218
10	219	219	242	221	260	627	1,880	271	e208	209	1,450	218
11	218	219	224	221	249	1,290	1,730	240	e208	209	1,160	767
12	218	e218	223	221	242	1,200	1,480	251	208	209	910	739
13	218	e219	e224	222	237	940	1,570	258	208	210	690	500
14	219	219	222	222	232	740	1,680	256	208	209	475	362
15	219	218	220	222	230	658	1,730	250	208	209	370	299
16	219	218	220	222	237	542	1,800	242	e208	e211	364	265
17	219	219	220	222	233	511	1,770	236	208	209	317	245
18	219	219	220	224	229	626	1,610	e230	206	208	303	235
19	218	219	220	224	225	691	1,540	226	e208	207	262	227
20	217	218	219	e224	222	769	1,470	220	e209	207	282	222
21	219	219	220	242	225	1,080	1,450	e214	e208	208	265	218
22	219	219	223	1,660	234	1,540	1,430	e210	208	207	312	216
23	219	219	223	1,010	222	1,670	1,350	e209	207	207	314	215
24	219	218	230	416	221	1,580	1,280	e208	207	207	289	213
25	219	219	240	1,220	221	1,410	1,210	208	209	207	252	1,220
26	218	219	223	808	221	1,490	1,010	208	210	207	236	1,760
27	e218	219	222	602	221	1,570	815	e207	210	276	229	2,680
28	219	220	221	414	222	1,600	653	e207	209	658	249	1,730
29	219	221	221	401	---	1,610	564	207	209	1,200	360	733
30	219	220	219	342	---	1,580	592	207	209	1,410	300	445
31	219	---	220	1,100	---	1,440	---	206	---	1,970	290	---
Total	6,777	6,567	6,922	12,636	8,580	27,294	44,124	9,546	6,238	10,932	38,189	15,681
Mean	219	219	223	408	306	880	1,471	308	208	353	1,232	523
Max	219	221	242	1,660	1,090	1,670	1,960	691	210	1,970	4,770	2,680
Min	217	218	218	218	221	226	564	206	206	207	229	213
Med	219	219	221	222	236	740	1,550	240	208	209	364	248
Ac-ft	13,440	13,030	13,730	25,060	17,020	54,140	87,520	18,930	12,370	21,680	75,750	31,100
Cfsm	0.01	0.01	0.01	0.02	0.01	0.03	0.05	0.01	0.01	0.01	0.05	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	316	251	319	443	666	724	639	283	229	295	617	350
Max	645	347	654	1,454	2,092	1,267	1,471	492	345	410	1,232	523
(WY)	(2007)	(2005)	(2008)	(2005)	(2005)	(2008)	(2010)	(1992)	(1992)	(2007)	(2010)	(2010)
Min	202	212	220	217	220	224	219	216	207	219	218	241
(WY)	(1992)	(2009)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(1990)	(2005)	(2009)	(2005)

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

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1990 - 2010	
Annual total	106,153		193,486			
Annual mean	291		530		424	
Highest annual mean					631	2005
Lowest annual mean					290	2009
Highest daily mean	1,370	Mar 1	4,770	Aug 7	5,970	Feb 24, 2005
Lowest daily mean	208	May 11	206	May 31	194	Mar 1, 1991
Annual seven-day minimum	209	May 11	207	May 26	200	Sep 29, 1991
Annual runoff (ac-ft)	210,600		383,800		306,800	
Annual runoff (cfsm)	0.011		0.020		0.016	
10 percent exceeds	500		1,540		936	
50 percent exceeds	219		223		229	
90 percent exceeds	214		208		216	

