Water-Data Report 2012

09429500 COLORADO RIVER BELOW IMPERIAL DAM, AZ-CA

Lower Colorado Basin
Lower Colorado Subbasin

LOCATION.--Lat 32°52′59″, long 114°27′57″ referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.9, T.15 S., R.24 E., Imperial County, CA, Hydrologic Unit 15030107, San Bernardino meridian. The forebay gage is near the All-American Canal headworks at east (revised) end of Imperial Dam, 5 mi upstream from Laguna Dam, 15 mi northeast of Yuma, AZ, 90 mi downstream from Palo Verde Dam, and 147 mi downstream from Parker Dam.

DRAINAGE AREA.--188,500 mi^2, of which 4,000 mi^2 probably is noncontributing, in Great Divide basin in southern Wyoming.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1960 to current year. Prior to October 1971 published as "at Imperial Dam." Records of flow reaching Imperial Dam, formerly published with this station, are now published separately as station 09429490, Colorado River above Imperial Dam.

GAGE.--Water-stage recorder in forebay, 12 calibrated gates on California sluiceway, and 8 calibrated gates on Gila sluiceway. Datum of forebay gage is 162.00 ft, U.S. Bureau of Reclamation datum. Prior to August 21, 1991, forebay gage located at west end of Imperial Dam at same datum.

COOPERATION.--Records of gate openings and sludge return flow from desilting basins furnished by Imperial Irrigation District.

REMARKS.--Record is rated fair. Records of daily discharge show flow of Colorado River passing Imperial Dam, and include water released to river through California and Gila sluiceways, sludge from desilting basins returned to river, and leakage through dam. For records of flow reaching Imperial Dam see station 09429490. Flow of Colorado River regulated by many reservoirs, principally Lake Mead, since 1935. Many diversions from Colorado River and tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge of 30,200 ft^3/sec on August 18 and 19, 1983; minimum daily discharge of 27 ft^3/s on December 15 and 18, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,730 ft^3/s on Jul. 14; minimum daily discharge, 250 ft^3/s, on several days.

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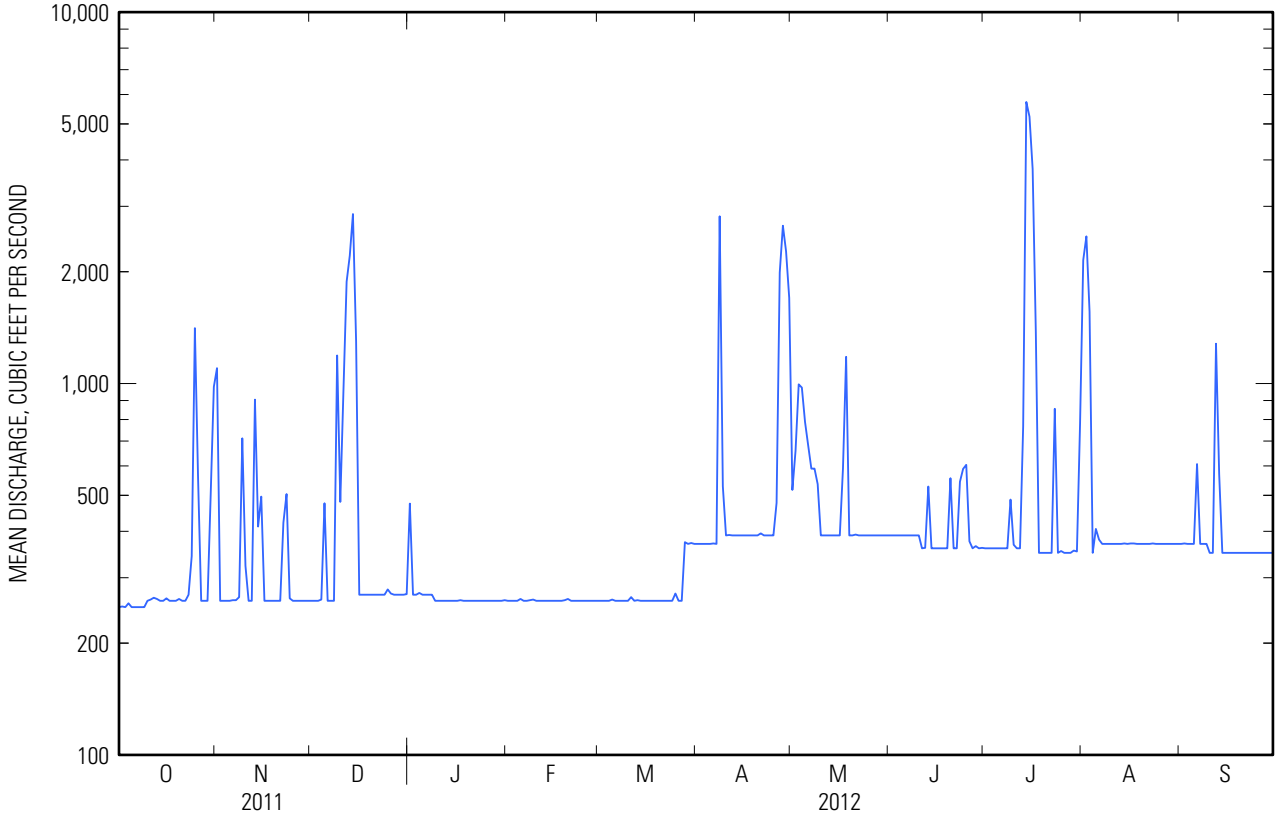
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	250	1,100	260	475	260	260	370	517	390	360	2,150	370
2	251	260	260	270	260	260	370	659	390	360	2,490	371
3	250	260	260	270	260	260	370	995	390	360	1,560	370
4	256	260	262	273	260	260	370	975	390	360	350	370
5	250	260	476	270	263	262	370	788	390	360	406	370
6	250	261	260	270	260	260	371	681	390	360	380	607
7	250	261	260	270	260	260	370	590	390	360	370	370
8	250	266	260	270	261	260	2,820	590	390	360	370	370
9	250	712	1,190	260	262	260	529	536	390	487	370	370
10	260	323	480	260	260	260	390	390	390	368	370	350
11	262	260	960	260	260	266	391	390	360	360	370	350
12	265	260	1,880	260	260	260	390	390	361	360	370	1,280
13	263	905	2,210	260	260	261	390	390	528	767	370	570
14	260	412	2,860	260	260	260	390	390	360	5,730	371	350
15	260	496	1,300	260	260	260	390	390	360	5,230	370	350
16	264	260	270	260	260	260	390	390	360	3,780	371	350
17	260	260	270	261	260	260	390	590	360	1,380	371	350
18	260	260	270	260	260	260	390	1,180	360	350	370	350
19	260	260	270	260	261	260	390	390	360	350	370	350
20	263	260	270	260	263	260	390	390	556	350	370	350
21	260	260	270	260	260	260	395	392	360	350	370	350
22	260	422	270	260	260	260	390	390	360	350	370	350
23	270	504	270	260	260	260	390	390	544	855	371	350
24	343	264	270	260	260	260	390	390	589	350	370	350
25	1,410	260	279	260	260	272	390	390	604	354	370	350
26	562	260	272	260	260	260	477	390	376	350	370	350
27	260	260	270	260	260	260	1,990	390	360	350	370	350
28	260	260	270	260	260	374	2,660	390	365	350	370	350
29	260	260	270	260	260	370	2,270	390	360	355	370	350
30	501	260	270	260	---	372	1,700	390	361	353	370	350
31	980	---	271	261	---	370	---	390	---	782	370	---
Total	10,500	10,606	17,510	8,350	7,550	8,527	21,283	15,903	12,144	27,191	16,590	12,068
Mean	339	354	565	269	260	275	709	513	405	877	535	402
Max	1,410	1,100	2,860	475	263	374	2,820	1,180	604	5,730	2,490	1,280
Min	250	260	260	260	260	260	370	390	360	350	350	350
Ac-ft	20,830	21,040	34,730	16,560	14,980	16,910	42,210	31,540	24,090	53,930	32,910	23,940

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