

Water-Data Report 2010

09429600 COLORADO RIVER BELOW LAGUNA DAM, AZ-CA

Lower Colorado River Basin
Lower Colorado Subbasin

LOCATION.--Lat 32°48'44", long 114°30'51" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.35, T.15 S., R.24 E., Imperial County, CA, Hydrologic Unit 15030107, San Bernardino meridian, on right bank 1.4 mi downstream from Laguna Dam, 2.8 mi northeast of Bard, CA, and 10 mi northeast of Yuma, AZ.

DRAINAGE AREA.--188,600 mi² of which 4,000 mi² probably is noncontributing, Great Divide basin in southern Wyoming is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 120.83 ft (revised 2010) above sea level (Bureau of Reclamation benchmark).

REMARKS.--Record is rated fair except for estimated days which are poor. Natural flow of Colorado River at this point is affected by trans-mountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, municipal, and industrial uses, and return flows from irrigated areas. Flow past station consists mainly of water released through Imperial Dam, sludge from the desilting basins at Imperial Dam, seepage through Imperial Dam, and seepage from the All-American Canal and the Gila Gravity Main Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge of 30,900 ft³/sec on August 19, 1983; minimum daily discharge of 71 ft³/sec on May 29, 1973.

REVISIONS.--1999-Datalogger. Gage Datum changed from 120.77 ft to 120.83 ft above sea level 2010. Review of archived level summaries indicate staff set using datum of 120.83 June of 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,780 ft³/s, Mar. 9, 10, gage height, 8.53 ft; minimum daily discharge, 272 ft³/s, Nov. 25.

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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	366	528	375	481	336	348	420	713	660	451	475	777
2	421	819	361	500	334	412	419	454	961	442	496	549
3	386	376	344	934	332	502	418	447	826	436	475	660
4	349	306	321	1,110	331	414	416	444	576	433	456	1,420
5	400	502	299	520	329	318	418	444	550	431	438	685
6	359	461	294	295	429	316	416	443	530	427	426	746
7	331	437	310	294	455	1,150	417	621	521	423	421	733
8	418	302	639	299	331	2,440	418	399	529	419	425	556
9	601	298	1,850	298	330	2,750	416	402	513	413	464	528
10	534	338	1,110	607	666	2,390	415	417	498	409	447	509
11	442	e664	749	663	1,360	1,540	414	422	487	406	435	496
12	414	e290	778	308	1,250	531	414	698	481	403	429	484
13	375	e290	526	307	722	352	413	1,260	516	398	427	478
14	338	e290	433	312	341	339	411	656	1,440	395	486	471
15	325	e290	341	396	331	344	412	906	1,240	393	763	467
16	361	e290	323	410	327	421	413	577	760	413	583	465
17	326	e312	316	414	325	431	413	542	578	481	526	544
18	308	375	310	417	326	430	413	574	552	456	548	1,390
19	299	319	307	464	327	429	416	809	548	435	532	1,160
20	295	293	303	1,260	328	427	422	652	533	417	512	580
21	295	287	299	1,830	368	478	426	660	567	411	497	550
22	294	289	300	2,340	404	488	440	821	612	407	479	530
23	295	313	290	1,660	320	513	535	574	865	404	466	511
24	293	283	290	1,360	320	431	427	605	662	403	456	497
25	428	272	291	1,320	319	454	807	887	558	416	448	523
26	365	282	289	719	319	504	1,410	673	534	489	445	567
27	282	284	288	810	320	427	751	564	512	492	794	575
28	286	285	286	729	348	427	662	540	495	468	2,070	555
29	286	289	285	378	---	425	1,040	518	479	447	1,510	542
30	297	379	286	346	---	423	1,210	877	463	429	1,000	569
31	438	---	369	340	---	423	---	1,170	---	418	594	---
Total	11,207	10,743	13,562	22,121	12,228	21,277	16,022	19,769	19,046	13,265	18,523	19,117
Mean	362	358	437	714	437	686	534	638	635	428	598	637
Max	601	819	1,850	2,340	1,360	2,750	1,410	1,260	1,440	492	2,070	1,420
Min	282	272	285	294	319	316	411	399	463	393	421	465
Ac-ft	22,230	21,310	26,900	43,880	24,250	42,200	31,780	39,210	37,780	26,310	36,740	37,920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,616	1,468	1,624	1,910	1,677	1,492	1,271	1,356	1,622	1,993	2,073	1,878
Max	22,660	15,570	15,680	15,420	15,570	13,750	12,610	12,400	15,150	24,380	26,350	22,440
(WY)	(1984)	(1984)	(1985)	(1984)	(1984)	(1984)	(1984)	(1986)	(1984)	(1983)	(1983)	(1983)
Min	259	274	261	234	190	333	345	285	316	306	318	256
(WY)	(1974)	(1994)	(1974)	(1976)	(1979)	(1979)	(1978)	(1973)	(1973)	(2009)	(1996)	(1996)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1972 - 2010	
Annual total	187,648		196,880			
Annual mean	514		539		1,693	
Highest annual mean					14,940	1984
Lowest annual mean					352	1996
Highest daily mean	3,140	Apr 12	2,750	Mar 9	30,900	Aug 19, 1983
Lowest daily mean	264	Jul 10	272	Nov 25	71	May 29, 1973
Annual seven-day minimum	266	Jul 8	287	Nov 22	141	Feb 1, 1979
Annual runoff (ac-ft)	372,200		390,500		1,226,000	
10 percent exceeds	761		823		3,600	
50 percent exceeds	408		433		460	
90 percent exceeds	287		299		296	

