

Water-Data Report 2010

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

Lower Colorado Basin
Havasu-Mohave Lake Subbasin

LOCATION.--Lat 35°11'30", long 114°34'17" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.1, T.32 S., R.66 E., Clark County, NV, Hydrologic Unit 15030101, Mount Diablo meridian, on right bank 0.5 mi downstream from Davis Dam, 29 mi west of Kingman, AZ, and 68 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi² of which 4,000 mi² probably is noncontributing, Great Divide basin in southern Wyoming is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1905 to Sept. 1907 (published as "at Hardyville"), Mar. 1949 to current year.

REVISED RECORDS.--WDR AZ-86-1:1981.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft, sea level; gage readings have been reduced to elevations above sea level since Oct. 1, 1967. 1905-1907, non-recording gage at site 4.8 mi downstream at datum about 3.4 ft lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi downstream at datum 10.00 ft higher. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft upstream at datum 10.00 ft higher. Feb. 25, 1956, to Sept. 30, 1967, water-stage recorder at present site at datum 10.00 ft higher.

REMARKS.--Record is rated GOOD. Flow regulated by Hoover Dam since Feb. 1, 1935, and by Davis Dam since Jan. 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

EXTREMES FOR PERIOD OF RECORD.--1905-1907: Maximum daily discharge, 116,000 ft³/s June 20, 1906; minimum daily, 2,850 ft³/s Jan. 5, 1906. 1949-2002: Maximum discharge, 46,200 ft³/s July 2, 1983, elevation, 509.48 ft; maximum elevation, 513.91 ft Apr. 22, 1952; no flow at Davis Dam parts of several days July to Sept. 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,200 ft³/s, Apr. 1, gage height, 16.04 ft; minimum daily discharge, 4,740 ft³/s, Feb. 1.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10,100	12,300	8,990	9,710	4,740	15,300	19,400	16,000	14,700	18,600	14,500	13,300
2	10,800	12,600	8,940	9,920	6,220	15,400	20,300	16,000	11,100	18,500	14,400	12,900
3	10,900	12,800	12,200	9,900	6,290	11,900	17,100	16,800	15,100	18,500	14,400	13,600
4	10,800	12,700	12,900	9,250	7,050	15,600	14,100	17,000	17,400	18,300	13,700	14,200
5	11,800	11,000	12,000	9,260	7,100	13,800	18,800	16,800	17,600	16,800	13,800	14,000
6	11,200	11,000	12,300	9,290	7,070	12,800	18,900	16,600	17,600	13,900	15,300	13,800
7	9,540	11,500	6,890	9,360	5,970	11,800	17,000	16,200	17,700	13,900	15,400	13,800
8	9,380	11,500	8,750	10,300	5,480	11,200	16,900	16,900	17,400	13,900	15,400	14,000
9	8,680	11,700	8,990	9,920	5,780	13,200	16,900	16,900	17,600	13,900	14,800	14,800
10	11,300	11,300	9,950	9,050	5,740	14,400	16,600	17,700	18,000	17,400	13,900	15,900
11	11,000	10,700	8,270	9,870	5,790	13,600	14,100	17,600	18,000	16,500	14,300	15,800
12	9,360	9,990	10,900	9,890	5,760	10,400	16,200	16,100	17,200	14,900	14,400	15,900
13	10,400	9,960	10,900	10,900	5,730	7,510	16,900	16,700	15,100	14,200	14,500	15,900
14	9,170	9,980	11,400	10,800	6,610	8,570	16,600	16,700	16,400	15,600	14,300	14,600
15	8,780	9,930	9,590	10,800	6,520	9,170	16,200	16,900	16,800	16,200	14,300	15,600
16	10,300	10,500	9,620	10,900	6,500	17,100	16,200	16,900	15,600	16,400	14,100	15,400
17	11,000	10,500	8,980	10,900	7,440	18,000	15,600	16,900	17,400	15,600	14,100	15,400
18	11,000	10,500	8,880	9,510	7,850	18,500	15,600	16,200	18,200	15,600	14,000	13,800
19	10,500	10,600	8,640	8,700	9,900	18,400	16,300	15,800	17,700	15,700	14,100	13,700
20	10,500	10,600	8,720	10,500	10,400	17,200	17,400	16,000	17,400	15,700	14,500	16,100
21	10,000	11,500	8,690	5,040	10,900	19,100	17,800	17,200	18,100	15,800	15,500	17,300
22	10,500	10,900	8,640	4,990	11,000	18,300	17,300	15,900	16,400	15,700	15,500	17,400
23	10,500	10,600	9,490	4,980	12,400	14,100	13,300	15,800	14,300	15,900	15,500	16,600
24	10,200	11,300	9,490	4,940	12,200	13,500	12,400	16,000	14,900	15,900	15,300	16,400
25	10,700	11,600	9,120	4,920	13,500	16,200	13,800	15,700	16,900	15,900	14,900	15,300
26	15,100	11,300	9,110	4,910	14,700	19,200	11,700	14,300	18,600	15,900	15,400	15,200
27	15,000	10,000	9,310	4,860	12,700	19,200	11,700	16,400	18,800	15,700	14,400	15,100
28	15,000	13,800	9,130	4,850	13,100	17,800	11,700	18,100	16,900	15,600	14,300	14,900
29	13,900	9,980	9,120	4,820	---	17,300	17,100	17,300	16,100	14,400	14,700	14,800
30	13,500	7,680	9,130	4,800	---	17,000	15,800	16,600	14,800	14,500	14,200	14,000
31	13,100	---	9,790	4,780	---	18,100	---	16,600	---	14,500	14,200	---
Total	344,010	330,320	298,830	252,620	234,440	463,650	479,700	512,600	499,800	489,900	452,100	449,500
Mean	11,100	11,010	9,640	8,149	8,373	14,960	15,990	16,540	16,660	15,800	14,580	14,980
Max	15,100	13,800	12,900	10,900	14,700	19,200	20,300	18,100	18,800	18,600	15,500	17,400
Min	8,680	7,680	6,890	4,780	4,740	7,510	11,700	14,300	11,100	13,900	13,700	12,900
Ac-ft	682,300	655,200	592,700	501,100	465,000	919,600	951,500	1,017,000	991,400	971,700	896,700	891,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11,170	9,739	9,602	10,020	11,670	15,090	17,570	17,280	20,200	18,910	16,050	13,650
Max	37,170	28,800	26,410	30,390	30,420	28,830	31,720	64,450	95,310	75,280	40,560	39,590
(WY)	(1984)	(1984)	(1985)	(1984)	(1984)	(1984)	(1907)	(1906)	(1906)	(1907)	(1983)	(1983)
Min	5,158	4,201	2,939	2,563	1,758	5,595	10,970	11,850	12,790	13,850	11,820	6,973
(WY)	(1973)	(1983)	(1966)	(1993)	(1993)	(1993)	(1965)	(1951)	(1982)	(1995)	(1905)	(1905)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1905 - 2010	
Annual total	5,013,720		4,807,470			
Annual mean	13,740		13,170		14,180	
Highest annual mean					30,870	1984
Lowest annual mean					9,809	1993
Highest daily mean	24,900	Mar 3	20,300	Apr 2	116,000	Jun 20, 1906
Lowest daily mean	6,890	Dec 7	4,740	Feb 1	285	Aug 3, 1950
Annual seven-day minimum	8,670	Jan 4	4,820	Jan 26	1,390	Feb 22, 2005
Annual runoff (ac-ft)	9,945,000		9,536,000		10,270,000	
10 percent exceeds	18,300		17,400		20,300	
50 percent exceeds	13,700		14,000		13,600	
90 percent exceeds	9,520		8,660		6,690	

