

Water-Data Report 2011

**09070500 COLORADO RIVER NEAR DOTSERO, CO**

Colorado Headwaters Basin  
Colorado Headwaters Subbasin

LOCATION.--Lat 39°38'40.60", long 107°04'40.85" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.6, T.5 S., R.86 W., Eagle County, CO, Hydrologic Unit 14010001, on right bank about 100 ft south of Interstate Highway 70, 1.5 mi west of Dotsero, and 1.5 mi downstream from Eagle River.

DRAINAGE AREA.--4,390 mi<sup>2</sup> (revised).

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder with satellite telemetry and two crest-stage gages. Elevation of gage is 6,130 ft above NGVD of 1929, from topographic map. Prior to Oct. 5, 2007, gage located on left bank 80 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, diversions for irrigation of about 68,000 acres upstream from station, and return flow from irrigated areas.

## 09070500 COLORADO RIVER NEAR DOTSERO, CO—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,330	1,070	e807	e599	732	928	1,250	3,310	13,500	15,500	4,480	2,100
2	1,300	1,040	903	e509	e634	933	1,480	3,390	13,800	15,100	4,520	2,030
3	1,290	1,010	915	e667	e576	e925	1,820	3,410	14,900	14,600	4,590	2,010
4	1,240	1,000	934	e776	e626	e953	1,890	3,420	14,900	13,900	4,590	2,050
5	1,210	997	914	e789	e755	e891	1,650	3,440	15,600	13,000	4,370	1,990
6	1,210	993	885	e809	e852	e911	1,700	3,690	16,500	13,500	4,130	2,050
7	1,250	1,000	900	e797	e820	e922	1,940	4,370	17,500	13,400	3,890	2,310
8	1,550	979	835	e791	e832	1,040	2,110	5,390	17,200	14,100	3,690	2,360
9	1,500	979	849	e847	e785	988	2,600	6,610	16,800	14,500	3,500	2,210
10	1,320	966	868	e780	e730	996	2,900	7,200	16,600	14,000	3,350	2,080
11	1,300	941	855	e703	e752	1,040	2,800	7,750	16,000	13,400	3,120	2,000
12	1,320	909	802	e673	e810	1,130	2,680	7,600	15,800	12,800	2,900	1,970
13	1,340	877	821	e806	e821	1,270	2,730	6,820	15,400	12,900	2,820	1,960
14	1,330	909	875	e903	e836	1,240	2,880	6,690	14,900	12,800	2,730	1,900
15	1,300	918	863	e878	e852	1,210	2,950	7,160	14,600	12,300	2,760	1,940
16	1,290	934	826	e868	e864	1,260	2,860	8,110	14,800	11,800	2,660	2,060
17	1,290	936	656	e885	e894	1,440	2,710	9,400	15,800	11,400	2,520	2,070
18	1,280	907	732	889	e861	1,490	2,770	9,610	15,600	10,800	2,450	2,060
19	1,270	903	888	858	e888	1,330	3,310	9,470	15,100	10,500	2,400	2,010
20	1,280	939	972	810	e901	1,310	3,290	9,040	14,900	10,400	2,390	1,940
21	1,290	974	993	e803	e868	1,300	3,270	8,370	13,900	10,000	2,330	1,820
22	1,290	985	961	800	e855	1,360	3,650	7,920	13,700	9,490	2,290	1,730
23	1,350	924	927	794	e858	1,390	3,580	7,990	14,200	8,740	2,270	1,680
24	1,490	934	907	806	e881	1,340	3,350	8,340	15,100	7,430	2,180	1,700
25	1,600	732	848	725	932	1,310	3,230	8,620	16,000	6,650	2,150	1,660
26	1,650	661	725	781	925	1,230	3,210	8,830	16,200	6,000	2,170	1,650
27	1,520	e622	809	e773	914	1,200	3,080	9,460	15,800	5,390	2,250	1,630
28	1,370	e757	762	e742	905	1,240	2,890	10,200	15,500	5,130	2,240	1,610
29	1,230	e820	773	780	---	1,190	2,870	11,700	15,300	4,840	2,280	1,700
30	1,170	e789	843	767	---	1,150	3,100	13,800	15,400	4,650	2,350	1,760
31	1,110	---	e719	760	---	1,140	---	13,500	---	4,490	2,180	---
<b>Total</b>	41,270	27,405	26,367	24,168	22,959	36,057	80,550	234,610	461,300	333,510	92,550	58,040
<b>Mean</b>	1,331	914	851	780	820	1,163	2,685	7,568	15,380	10,760	2,985	1,935
<b>Max</b>	1,650	1,070	993	903	932	1,490	3,650	13,800	17,500	15,500	4,590	2,360
<b>Min</b>	1,110	622	656	509	576	891	1,250	3,310	13,500	4,490	2,150	1,610
<b>Ac-ft</b>	81,860	54,360	52,300	47,940	45,540	71,520	159,800	465,300	915,000	661,500	183,600	115,100

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,226	1,066	935	892	900	1,029	1,832	4,763	6,290	3,137	1,710	1,330
<b>Max</b>	2,038	1,664	1,503	1,473	1,603	1,961	5,601	10,770	15,380	10,760	4,055	2,616
<b>(WY)</b>	(1963)	(1963)	(1985)	(1985)	(1962)	(1962)	(1962)	(1984)	(2011)	(2011)	(1984)	(1984)
<b>Min</b>	707	677	521	504	529	610	967	1,254	1,220	1,021	912	661
<b>(WY)</b>	(2003)	(1978)	(1943)	(1941)	(1943)	(1964)	(2004)	(2002)	(2002)	(1963)	(2002)	(2002)

09070500 COLORADO RIVER NEAR DOTSERO, CO—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1941 - 2011	
<b>Annual total</b>	704,487		1,438,786			
<b>Annual mean</b>	1,930		3,942		2,095	
<b>Highest annual mean</b>					4,173	1984
<b>Lowest annual mean</b>					898	2002
<b>Highest daily mean</b>	13,700	Jun 8	17,500	Jun 7	20,800	May 25, 1984
<b>Lowest daily mean</b>	622	Nov 27	509	Jan 2	<sup>a</sup> 350	Jan 5, 1944
<b>Annual seven-day minimum</b>	680	Feb 18	693	Jan 30	417	Jan 13, 1944
<b>Maximum peak flow</b>			18,500	Jun 7	22,200	May 25, 1984
<b>Maximum peak stage</b>			12.64	Jun 7	14.20	May 25, 1984
<b>Annual runoff (ac-ft)</b>	1,397,000		2,854,000		1,518,000	
<b>10 percent exceeds</b>	4,530		13,700		4,780	
<b>50 percent exceeds</b>	1,290		1,600		1,260	
<b>90 percent exceeds</b>	721		796		750	

<sup>a</sup> Also occurred Jan 1, 1995.

