

Water-Data Report 2011

07083710 ARKANSAS RIVER BELOW EMPIRE GULCH NEAR MALTA, CO

Upper Arkansas Basin
Arkansas Headwaters Subbasin

LOCATION.--Lat 39°09'50", long 106°19'10" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.22, T.10 S., R.80 W., Lake County, CO, Hydrologic Unit 11020001, on right bank 60 ft downstream from private road bridge, 0.1 mi downstream from Empire Gulch, 0.4 mi downstream from bridge on U.S. Highway 24, 0.6 mi upstream from Dry Union Gulch, and 4.8 mi southeast of Malta.

DRAINAGE AREA.--238 mi² (revised).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1990 to November 1993. May 2004 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft above NGVD of 1929, from topographic map. Prior to May 1, 2004, at site 60 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by storage reservoirs, transmountain diversions from Colorado River Basin, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Turquoise Lake, on tributary upstream from station, capacity, about 129,400 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 1,590 ft³/s, June 17, 2011, gage height, 5.72 ft, from rating curve extended above 1,120 ft³/s; minimum daily, 31 ft³/s, Dec. 23, 1990.

EXTREMES FOR CURRENT YEAR.--(seasonal only) Maximum discharge, 1,590 ft³/s, June 17, gage height, 5.72 ft; minimum daily, 82 ft³/s, May 2.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	83	437	1,420	231	---
2	---	---	---	---	---	---	---	82	483	1,300	226	---
3	---	---	---	---	---	---	---	83	655	1,260	278	---
4	---	---	---	---	---	---	---	88	749	1,200	259	---
5	---	---	---	---	---	---	---	96	847	1,130	228	---
6	---	---	---	---	---	---	---	109	931	1,240	203	---
7	---	---	---	---	---	---	---	136	1,090	1,250	190	---
8	---	---	---	---	---	---	---	166	1,120	1,350	177	---
9	---	---	---	---	---	---	---	198	1,250	1,350	165	---
10	---	---	---	---	---	---	---	192	1,250	1,340	157	---
11	---	---	---	---	---	---	---	200	1,280	1,290	153	---
12	---	---	---	---	---	---	---	174	1,300	1,270	151	---
13	---	---	---	---	---	---	---	178	1,290	1,120	149	---
14	---	---	---	---	---	---	---	198	1,300	1,050	166	---
15	---	---	---	---	---	---	---	210	1,300	967	154	---
16	---	---	---	---	---	---	---	275	1,370	880	143	---
17	---	---	---	---	---	---	---	301	1,510	851	146	---
18	---	---	---	---	---	---	---	267	1,440	869	140	---
19	---	---	---	---	---	---	---	234	1,340	881	140	---
20	---	---	---	---	---	---	---	203	1,280	777	158	---
21	---	---	---	---	---	---	---	195	1,140	651	143	---
22	---	---	---	---	---	---	---	187	1,140	515	142	---
23	---	---	---	---	---	---	---	194	1,210	460	136	---
24	---	---	---	---	---	---	---	191	1,310	421	134	---
25	---	---	---	---	---	---	---	178	1,380	394	135	---
26	---	---	---	---	---	---	---	183	1,360	375	141	---
27	---	---	---	---	---	---	---	219	1,330	354	158	---
28	---	---	---	---	---	---	---	282	1,310	307	150	---
29	---	---	---	---	---	---	---	413	1,340	280	152	---
30	---	---	---	---	---	---	---	517	1,430	244	144	---
31	---	---	---	---	---	---	---	422	---	230	133	---
Total	---	---	---	---	---	---	---	6,454	35,172	27,026	5,182	---
Mean	---	---	---	---	---	---	---	208	1,172	872	167	---
Max	---	---	---	---	---	---	---	517	1,510	1,420	278	---
Min	---	---	---	---	---	---	---	82	437	230	133	---
Ac-ft	---	---	---	---	---	---	---	12,800	69,760	53,610	10,280	---

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