

Water-Data Report 2012

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.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR-US-2011: Drainage area.

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, 198 ft³/s, May 23, gage height, 3.65 ft; maximum observed, 202 ft³/s, Apr. 27, gage height, 3.64 ft, occurred prior to period of seasonal operation; minimum daily, 72 ft³/s, July 26 and Aug. 5 and 20.

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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	---	---	---	---	---	---	---	122	166	94	101	---
2	---	---	---	---	---	---	---	128	181	90	103	---
3	---	---	---	---	---	---	---	128	172	91	91	---
4	---	---	---	---	---	---	---	141	173	89	78	---
5	---	---	---	---	---	---	---	160	181	91	72	---
6	---	---	---	---	---	---	---	161	176	97	74	---
7	---	---	---	---	---	---	---	154	169	117	94	---
8	---	---	---	---	---	---	---	138	162	113	81	---
9	---	---	---	---	---	---	---	131	156	102	79	---
10	---	---	---	---	---	---	---	145	147	98	79	---
11	---	---	---	---	---	---	---	162	138	93	94	---
12	---	---	---	---	---	---	---	161	131	92	88	---
13	---	---	---	---	---	---	---	155	127	81	87	---
14	---	---	---	---	---	---	---	144	122	83	93	---
15	---	---	---	---	---	---	---	148	123	93	84	---
16	---	---	---	---	---	---	---	163	121	91	80	---
17	---	---	---	---	---	---	---	158	116	85	77	---
18	---	---	---	---	---	---	---	160	114	82	76	---
19	---	---	---	---	---	---	---	159	103	81	73	---
20	---	---	---	---	---	---	---	152	100	78	72	---
21	---	---	---	---	---	---	---	151	97	81	74	---
22	---	---	---	---	---	---	---	164	94	79	74	---
23	---	---	---	---	---	---	---	183	91	75	81	---
24	---	---	---	---	---	---	---	179	89	75	105	---
25	---	---	---	---	---	---	---	166	88	74	88	---
26	---	---	---	---	---	---	---	160	89	72	79	---
27	---	---	---	---	---	---	---	163	104	74	78	---
28	---	---	---	---	---	---	---	150	107	88	88	---
29	---	---	---	---	---	---	---	144	104	86	93	---
30	---	---	---	---	---	---	---	150	98	88	94	---
31	---	---	---	---	---	---	---	155	---	103	94	---
Total	---	---	---	---	---	---	---	4,735	3,839	2,736	2,624	---
Mean	---	---	---	---	---	---	---	153	128	88.3	84.6	---
Max	---	---	---	---	---	---	---	183	181	117	105	---
Min	---	---	---	---	---	---	---	122	88	72	72	---
Ac-ft	---	---	---	---	---	---	---	9,390	7,610	5,430	5,200	---

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