

07083710 ARKANSAS RIVER BELOW EMPIRE GULCH NEAR MALTA, CO

LOCATION.--Lat 39°09'50", long 106°19'10", in NE¹/₄SW¹/₄ sec.22, T.10 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank 60 feet 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.--237 mi².

PERIOD OF RECORD.--May 1990 to November 1993. May to September 2004 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07083710

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft above NGVD of 1929. 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 (see elsewhere in this report), 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, 1,030 ft³/s, June 24, 1993, gage height, 4.41 ft, from rating curve extended above 850 ft³/s (also occurred June 10, 1990, gage height, 4.19 ft, from rating curve extended above 482 ft³/s); minimum daily, 31 ft³/s, Dec. 23, 1990.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period May to September, 465 ft³/s, June 8, gage height, 4.17 ft, from rating curve extended above 384 ft³/s; minimum daily, 71 ft³/s, Sep. 17-18.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	97	211	268	110	80
2	---	---	---	---	---	---	---	95	208	218	110	81
3	---	---	---	---	---	---	---	104	216	193	108	80
4	---	---	---	---	---	---	---	127	250	176	110	83
5	---	---	---	---	---	---	---	154	281	168	112	85
6	---	---	---	---	---	---	---	179	340	169	105	83
7	---	---	---	---	---	---	---	189	406	156	97	81
8	---	---	---	---	---	---	---	215	418	152	94	81
9	---	---	---	---	---	---	---	222	408	146	89	78
10	---	---	---	---	---	---	---	216	398	148	86	80
11	---	---	---	---	---	---	---	242	321	145	84	80
12	---	---	---	---	---	---	---	243	269	139	83	78
13	---	---	---	---	---	---	---	202	236	136	82	78
14	---	---	---	---	---	---	---	169	246	142	83	75
15	---	---	---	---	---	---	---	153	271	159	83	76
16	---	---	---	---	---	---	---	149	263	179	84	74
17	---	---	---	---	---	---	---	159	256	280	86	71
18	---	---	---	---	---	---	---	163	265	263	90	71
19	---	---	---	---	---	---	---	216	252	225	114	77
20	---	---	---	---	---	---	---	278	238	193	112	81
21	---	---	---	---	---	---	---	303	241	177	101	81
22	---	---	---	---	---	---	---	295	240	163	101	81
23	---	---	---	---	---	---	---	252	199	160	100	77
24	---	---	---	---	---	---	---	243	186	173	94	74
25	---	---	---	---	---	---	---	249	184	152	92	73
26	---	---	---	---	---	---	---	239	214	143	89	73
27	---	---	---	---	---	---	---	247	218	153	87	72
28	---	---	---	---	---	---	---	256	204	142	86	75
29	---	---	---	---	---	---	---	305	196	128	84	76
30	---	---	---	---	---	---	---	274	253	119	83	80
31	---	---	---	---	---	---	---	232	---	113	81	---
TOTAL	---	---	---	---	---	---	---	6,467	7,888	5,278	2,920	2,335
MEAN	---	---	---	---	---	---	---	209	263	170	94.2	77.8
MAX	---	---	---	---	---	---	---	305	418	280	114	85
MIN	---	---	---	---	---	---	---	95	184	113	81	71
AC-FT	---	---	---	---	---	---	---	12,830	15,650	10,470	5,790	4,630