09242500 ELK RIVER NEAR MILNER, CO

LOCATION.--Lat 40°30'53", long 106°57'12", in NW¼NW¼ sec.5, T.6 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft downstream from bridge on County Road 44, 2.5 mi upstream from mouth, and 3.2 mi east of Milner.

DRAINAGE AREA.--460 mi^2.

PERIOD OF RECORD.--May 1904 to September 1927 (published as "near Trull"). April 1990 to current year. Records for 1910-27 furnished by State Engineer of Colorado. Monthly discharge only for some periods, published in WSP 1313. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09242500

REVISED RECORDS.--WDR CO-98-2:1997 (M). WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,590 ft above NGVD of 1929, from topographic map. May 1904 to Sept. 1909, nonrecording gage, at different datum, Oct. 1910 to Sept. 1927, water-stage recorder at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. During high flows, channel overflow may occur and cause some streamflow to bypass gage. Diversions upstream from station for irrigation. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl lake), capacity, 5,660 acre-ft, since 1963, and Steamboat lake, capacity, 23,060 acre-ft, since 1968.

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	59	58	e73	e53	e49	e71	485	868	830	1,270	168	79
2	59	72	e63	e53	e49	e68	600	865	824	852	159	70
3	63	87	e48	e52	e47	e70	686	1,110	1,200	711	152	67
4	68	79	e44	e50	e50	e72	671	1,440	1,610	636	150	104
5	62	77	e36	e55	e50	e71	847	1,910	1,750	607	145	191
6	59	e70	e32	e46	e47	e70	976	2,310	1,880	575	150	192
7	53	e68	e36	e54	e45	e73	1,080	2,450	2,150	496	134	177
8	52	e70	e42	e57	e49	e80	1,190	2,490	2,070	454	122	137
9	55	e70	e36	e53	e49	e83	1,260	2,460	1,960	421	108	106
10	54	e75	e36	e48	e45	e86	1,210	2,480	1,750	388	103	99
11	56	e77	e40	e48	e51	e88	972	2,460	1,310	370	97	100
12	60	e80	e38	e48	e48	e90	887	1,820	1,030	356	98	96
13	56	82	e38	e49	e51	e96	819	1,560	994	327	109	93
14	53	100	e39	e51	e50	e104	903	1,350	1,140	304	106	104
15	49	93	e38	e52	e52	e119	819	1,280	1,290	312	103	105
16	49	89	e38	e55	e52	e121	864	1,290	1,210	586	101	93
17	50	89	e37	e51	e51	156	955	1,270	1,260	421	103	83
18	48	73	e45	e48	e52	157	974	1,440	1,380	360	109	81
19	48	82	e51	e51	e53	194	820	1,690	1,190	313	210	87
20	50	91	e44	e53	e55	281	762	1,920	1,110	290	186	207
21	49	97	e47	e51	e53	349	742	2,060	1,330	288	173	368
22	47	86	e51	e47	e53	412	681	1,830	1,060	259	159	273
23	45	77	e47	e48	e59	522	612	1,430	849	265	143	233
24	44	e82	e50	e52	e59	564	625	1,450	822	250	134	222
25	44	e77	e50	e51	e63	600	603	1,230	817	231	106	280
26	39	e74	e55	e53	e72	611	596	1,090	789	225	91	308
27	42	e71	e52	e55	e85	604	733	1,120	758	212	129	311
28	44	e75	e51	e55	e79	452	962	1,270	690	198	135	301
29	44	e81	e52	e55	e74	368	1,040	1,710	692	187	109	303
30	42	e74	e53	e53	---	363	1,000	1,200	1,420	181	95	429
31	49	---	e53	e52	---	390	---	949	---	183	88	---
TOTAL	1,592	2,376	1,415	1,599	1,592	7,385	25,374	49,802	37,165	12,528	3,975	5,299
MEAN	51.4	79.2	45.6	51.6	54.9	238	846	1,607	1,239	404	128	177
MAX	68	100	73	57	85	611	1,260	2,490	2,150	1,270	210	429
MIN	39	58	32	46	45	68	485	865	690	181	88	67
AC-FT	3,160	4,710	2,810	3,170	3,160	14,650	50,330	98,780	73,720	24,850	7,880	10,510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2004, BY WATER YEAR (WY)

MEAN	138	109	90.2	85.9	88.9	169	730	2,082	2,138	652	163	114
MAX	424	234	154	135	145	320	1,214	3,977	3,824	1,940	445	518
(WY)	(1919)	(1919)	(1998)	(1998)	(1921)	(1916)	(1919)	(1920)	(1917)	(1917)	(1912)	(1997)
MIN	51.4	58.0	45.6	51.5	45.9	52.0	377	940	749	88.2	30.3	33.1
(WY)	(2004)	(1991)	(2004)	(1992)	(1991)	(1991)	(1995)	(1990)	(2002)	(2002)	(2002)	(1994)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1905 - 2004	
ANNUAL TOTAL	182,319		150,102			
ANNUAL MEAN	500		410		553	
HIGHEST ANNUAL MEAN					886	1917
LOWEST ANNUAL MEAN					230	2002
HIGHEST DAILY MEAN	4,960	Jun 1	2,490	May 8	5,350	Jun 15, 1921
LOWEST DAILY MEAN	e32	Dec 6	e32	Dec 6	3.7	Sep 5, 2002
ANNUAL SEVEN-DAY MINIMUM	37	Dec 5	37	Dec 5	5.3	Sep 1, 2002
MAXIMUM PEAK FLOW			2,990	May 8	a5,740	Jun 3, 1997
MAXIMUM PEAK STAGE			5.57	May 8	b7.18	Jun 3, 1997
ANNUAL RUNOFF (AC-FT)	361,600		297,700		400,300	
10 PERCENT EXCEEDS	1,730		1,260		1,870	
50 PERCENT EXCEEDS	86		103		130	
90 PERCENT EXCEEDS	50		48		62	

e Estimated.
a Peak discharge includes 370 ft^3/s overflow that bypassed the main channel.
b Gage height reflects the discharge flowing in the main channel (5,370 ft^3/s).