07123000 ARKANSAS RIVER AT LA JUNTA, CO

LOCATION.--Lat 37°59'26", long 103°31'55", in SE¼NE¼ sec.2, T.24 S., R.55 W., Otero County, Hydrologic Unit 11020005, on right bank at upstream side of bridge on State Highway 109 in La Junta, and 450 ft upstream from King Arroyo.

DRAINAGE AREA.--12,210 mi^2, of which 115 mi^2 is probably noncontributing.

PERIOD OF RECORD.--May to August 1889 and September 1893 to December 1895 (gage heights, discharge measurements, and flood data only), April to October 1903 and June to November 1908 (gage heights and discharge measurements only), April 1912 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near La Junta" in 1903. Statistical summary computed for 1975 to current year subsequent to completion of Pueblo Dam. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07123000

REVISED RECORDS.--WSP 1341: Drainage area. WSP 1731: 1922.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,039.60 ft above NGVD of 1929. See WSP 1711 or 1731 for history of changes prior to June 13, 1940. June 13, 1940 to June 6, 1967, water-stage recorder at site 300 ft upstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Pueblo Reservoir (station 07099350) about 82 mi upstream since Jan. 9, 1974.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

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	58	5.9	69	63	65	61	49	143	552	106	258	83
2	52	5.1	64	58	e55	53	24	141	504	243	292	59
3	58	7.8	60	49	55	51	38	137	460	391	267	37
4	61	7.4	61	e44	58	56	55	139	540	510	266	42
5	58	5.8	63	e39	62	63	66	139	473	472	431	55
6	57	5.2	61	e20	e58	64	64	137	431	439	218	50
7	45	3.9	64	e25	e60	61	45	140	437	354	282	38
8	32	13	64	e40	e60	56	49	134	538	251	241	39
9	34	38	61	e45	e55	58	65	134	617	190	77	32
10	25	32	56	e50	e55	57	92	135	709	154	66	25
11	17	9.2	e57	e50	e50	58	82	173	557	121	62	23
12	16	7.3	e64	e50	e40	59	78	334	574	217	64	21
13	13	14	e75	e50	e35	58	68	429	673	167	57	17
14	19	27	e82	e50	e45	61	64	640	591	124	46	15
15	17	247	e90	53	e55	21	64	694	597	117	52	14
16	14	255	e92	54	e75	13	56	683	521	109	131	14
17	15	137	e87	52	e80	31	63	565	416	164	130	13
18	14	104	e89	49	83	52	58	488	569	1,270	138	12
19	15	89	e83	51	80	49	64	508	564	1,820	460	13
20	14	83	e75	54	88	47	32	498	457	160	162	13
21	15	e60	99	61	78	36	36	483	369	472	87	13
22	15	75	105	e59	76	52	48	475	171	627	50	15
23	15	e55	e70	e59	71	86	154	456	413	833	68	14
24	10	e48	e60	59	66	91	358	452	377	387	48	13
25	9.5	e56	e55	61	62	45	485	433	286	88	45	23
26	11	e65	e60	55	60	45	490	448	216	226	71	31
27	9.3	e70	57	35	63	47	404	481	220	328	184	20
28	15	e68	e43	40	62	53	277	622	369	654	190	21
29	16	e70	e32	45	60	66	143	777	291	526	171	14
30	10	75	e42	60	---	57	143	814	237	461	137	13
31	6.3	---	e85	70	---	49	---	625	---	383	120	---
TOTAL	766.1	1,738.6	2,125	1,550	1,812	1,656	3,714	12,457	13,729	12,364	4,871	792
MEAN	24.7	58.0	68.5	50.0	62.5	53.4	124	402	458	399	157	26.4
MAX	61	255	105	70	88	91	490	814	709	1,820	460	83
MIN	6.3	3.9	32	20	35	13	24	134	171	88	45	12
AC-FT	1,520	3,450	4,210	3,070	3,590	3,280	7,370	24,710	27,230	24,520	9,660	1,570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	157	121	117	156	147	106	130	551	855	496	308	115
MAX	1,189	545	335	569	620	517	821	3,375	4,307	3,634	1,345	464
(WY)	(1985)	(1987)	(1987)	(1998)	(1985)	(1998)	(1998)	(1999)	(1995)	(1995)	(1984)	(1982)
MIN	8.82	4.21	13.5	9.50	6.37	19.6	6.67	15.1	20.0	21.0	19.1	9.59
(WY)	(1978)	(1979)	(1976)	(1976)	(1976)	(1978)	(1978)	(2002)	(2002)	(2002)	(2002)	(1977)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	40,563.7		57,574.7			
ANNUAL MEAN	111		157		a272	
HIGHEST ANNUAL MEAN					832	1995
LOWEST ANNUAL MEAN					47.7	2002
HIGHEST DAILY MEAN	1,540	Jun 5	1,820	Jul 19	e,b19,000	May 2, 1999
LOWEST DAILY MEAN	3.9	Nov 7	3.9	Nov 7	c2.5	Dec 8, 1978
ANNUAL SEVEN-DAY MINIMUM	5.9	Nov 1	5.9	Nov 1	3.0	Dec 4, 1978
MAXIMUM PEAK FLOW			3,710	Jul 19	e,d30,000	May 2, 1999
MAXIMUM PEAK STAGE			10.48	Jul 19	f15.55	May 2, 1999
ANNUAL RUNOFF (AC-FT)	80,460		114,200		197,200	
10 PERCENT EXCEEDS	284		477		591	
50 PERCENT EXCEEDS	53		63		94	
90 PERCENT EXCEEDS	17		15		21	

e Estimated.
a Average discharge for 61 years (water years 1913-73), 244 ft^3/s; 176,800 acre-ft/yr, prior to completion of Pueblo Dam.
b Maximum daily discharge for period of record, 61,100 ft^3/s, Jun 4, 1921.
c Also occurred Dec 9, 1978; minimum daily discharge for period of record, no flow, Jan 20-23 and Mar 20-23, 1915.
d Peak discharge includes 7,600 ft^3/s (estimated) that bypassed the main channel; maximum discharge for period of record, 200,000 ft^3/s, Jun 4, 1921, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement of peak flow.
f Gage height reflects the discharge flowing in the main channel; maximum gage height for period of record, 18.4 ft, Jun 4, 1921, site and datum then in use.