07138020 ARKANSAS RIVER AT KENDALL, KS

Middle Arkansas Basin
Middle Arkansas-Lake McKinney Subbasin

LOCATION.--Lat 37°55′48″, long 101°32′56″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.25, T.24 S., R.39 W., Hamilton County, KS, Hydrologic Unit 11030001, on left downstream side of county road bridge, 0.25 mi south of Kendall, and at mile 1,066.7.

DRAINAGE AREA.--26,028 mi^2 of which 1,886 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1979 to September 1982, June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,118.79 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	82	95	103	e110	107	103	90	72	39	107	181	125
2	82	98	105	e110	106	103	90	67	40	147	162	123
3	78	101	104	e110	106	102	89	71	43	179	145	121
4	77	99	105	e110	105	103	87	74	47	210	131	120
5	76	95	106	e115	106	102	87	75	48	239	120	117
6	74	91	107	e118	106	101	90	72	50	262	112	116
7	74	87	106	e120	106	100	90	72	49	284	105	116
8	75	86	107	e120	106	99	90	69	46	319	107	117
9	76	e86	107	e120	106	98	89	67	48	340	125	116
10	76	e85	107	e122	106	98	92	66	52	361	122	113
11	77	e85	109	127	106	97	92	65	54	374	115	108
12	76	e85	110	122	106	97	91	67	54	390	117	104
13	75	e84	111	121	108	97	89	66	50	401	112	104
14	74	84	110	119	107	96	88	64	45	414	106	100
15	76	85	111	117	107	96	88	59	40	422	126	98
16	78	84	113	116	107	95	87	58	38	425	131	97
17	80	83	113	115	108	96	85	58	41	417	145	94
18	80	85	113	109	107	100	86	58	44	411	179	93
19	78	87	112	114	106	102	91	54	46	414	206	90
20	77	90	111	113	106	100	92	52	48	415	199	87
21	76	91	112	111	107	99	84	51	50	414	185	84
22	76	94	112	108	106	97	79	48	55	410	174	83
23	80	94	112	107	106	96	76	46	56	407	166	81
24	83	97	112	110	106	95	71	45	56	398	160	79
25	84	99	112	111	106	94	71	43	56	404	154	76
26	86	100	112	109	105	93	74	42	55	368	147	74
27	86	101	114	109	105	92	70	43	55	303	140	73
28	86	101	e112	110	105	91	71	44	55	272	136	76
29	86	102	e109	109	104	91	73	45	57	254	132	76
30	89	102	e113	108	---	89	75	43	71	230	131	74
31	93	---	e113	107	---	90	---	41	---	203	129	---
Mean	79.5	91.9	110	114	106	97.2	84.2	58.0	49.6	329	142	97.8
Max	93	102	114	127	108	103	92	75	71	425	206	125
Min	74	83	103	107	104	89	70	41	38	107	105	73
Ac-ft	4,890	5,470	6,750	7,000	6,110	5,970	5,010	3,560	2,950	20,220	8,730	5,820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	63.0	69.3	72.7	73.8	79.9	85.5	91.7	97.5	180	301	163	84.6
Max	276	220	196	186	201	220	209	241	592	637	466	171
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2007)	(2004)	(2001)	(2000)	(2000)	(2000)	(2000)
Min	0.00	0.00	0.00	0.00	5.24	19.8	16.9	12.0	9.06	19.1	1.38	0.69
(WY)	(1980)	(1980)	(1980)	(1980)	(1980)	(1980)	(1982)	(2006)	(2006)	(2003)	(2003)	(2003)

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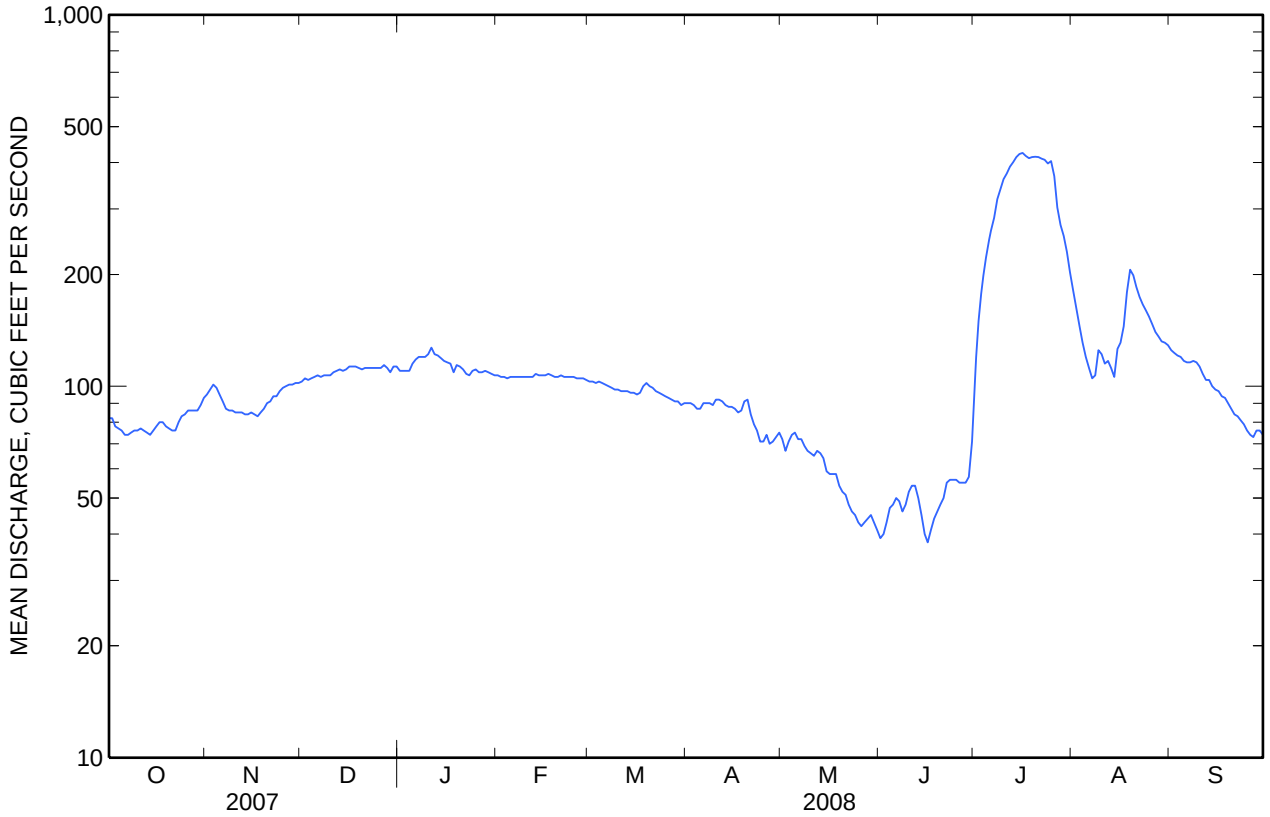
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1980 - 2008	
Annual mean	165		114		105	
Highest annual mean					251	2001
Lowest annual mean					37.6	2003
Highest daily mean	523	Jul 14	425	Jul 16	984	Jul 19, 2000
Lowest daily mean	40	Jan 1	38	Jun 16	0.00	Oct 1, 1979
Annual seven-day minimum	56	Jan 13	42	May 27	0.00	Oct 1, 1979
Maximum peak flow			437	Jul 15	1,220	Jul 13, 1982
Maximum peak stage			7.87	Jul 15	9.75	Jul 13, 1982
Instantaneous low flow			37	Jun 15	0.00	many years
Annual runoff (ac-ft)	119,300		82,480		76,210	
10 percent exceeds	253		163		232	
50 percent exceeds	129		100		64	
90 percent exceeds	77		55		10