Water-Data Report 2008

06917060 LITTLE OSAGE RIVER AT HORTON, MO

Lower Missouri Basin
Osage Subbasin

LOCATION.--Lat 37°59'41.3", long 94°22'09.5" referenced to North American Datum of 1983, in SW ¼ NE ¼ NW ¼ sec.17, T.37 N., R.31 W., Vernon County, MO, Hydrologic Unit 10290103, on left bank at the upstream side of the southbound bridge of U.S. Highway 71, 4 mi above Marmaton River, and 1 mi north of Horton.

DRAINAGE AREA.--498 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2000 to current year. Nov. 18, 1988 to Sept. 30, 2000, stage only.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 59.4 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,690 ft^3/s, Sept. 14; maximum gage height, 45.08 ft, Sept. 16; minimum discharge, 0.19 ft^3/s, Dec. 7, 8, gage height, 23.25 ft.

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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	0.76	8.2	0.93	5.8	6.3	209	1,790	271	753	815	23	8.2
2	0.87	6.0	0.75	4.9	6.1	167	1,940	498	647	489	25	10
3	0.88	3.6	0.67	4.1	5.7	950	2,370	1,970	441	386	21	12
4	0.77	3.2	0.57	3.8	5.4	1,490	1,040	1,730	268	343	18	565
5	0.63	2.9	0.43	3.1	8.6	1,310	761	609	195	297	21	959
6	0.88	2.3	0.25	3.1	279	857	650	387	199	257	153	640
7	0.96	1.9	0.25	3.4	562	448	509	1,070	149	209	367	275
8	1.2	2.0	0.22	15	494	287	362	3,700	95	155	149	157
9	1.5	2.3	0.66	39	276	226	850	4,940	476	132	179	109
10	1.7	1.9	0.61	31	167	186	3,440	4,710	726	184	103	93
11	1.4	1.7	0.90	32	115	151	5,000	2,870	793	263	81	88
12	1.1	1.7	1.4	24	82	135	5,200	1,680	829	176	193	452
13	1.3	1.7	3.6	15	59	115	2,170	1,040	708	109	138	2,200
14	1.3	1.6	3.7	10	56	107	1,000	629	639	82	79	6,180
15	1.4	1.8	2.9	12	44	106	772	453	560	67	56	5,740
16	1.1	1.6	3.7	18	38	102	679	441	538	56	44	5,120
17	3.0	1.0	4.3	18	251	276	570	357	481	46	38	4,080
18	54	0.97	4.0	16	622	1,360	641	270	e350	39	33	2,450
19	139	0.66	4.2	13	705	2,150	970	216	e300	35	28	1,700
20	58	0.79	5.1	13	492	1,260	728	174	e250	30	24	1,190
21	15	0.91	4.9	10	270	652	451	140	e225	26	22	835
22	7.7	0.92	5.4	9.1	164	448	327	116	e200	23	19	475
23	6.0	1.1	5.7	8.2	122	239	287	105	e190	20	16	233
24	4.1	1.0	7.9	7.5	108	199	1,340	316	e185	18	17	157
25	11	0.97	7.3	6.5	189	171	2,340	1,100	e180	17	16	128
26	17	1.1	5.9	6.6	557	150	1,100	1,920	e180	17	13	110
27	10	1.2	5.5	7.4	622	135	661	3,650	e200	21	12	90
28	7.7	1.1	6.3	7.0	473	120	486	4,430	2,220	165	11	79
29	9.6	1.0	7.3	7.6	299	106	285	3,940	2,110	26	11	69
30	14	1.0	6.2	6.9	---	223	295	1,640	1,550	21	12	60
31	10	---	6.1	6.9	---	879	---	1,050	---	25	10	---
Mean	12.4	1.94	3.47	11.9	244	491	1,300	1,497	555	147	62.3	1,142
Max	139	8.2	7.9	39	705	2,150	5,200	4,940	2,220	815	367	6,180
Min	0.63	0.66	0.22	3.1	5.4	102	285	105	95	17	10	8.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	22.6	125	107	202	224	361	477	887	530	576	69.1	190
Max	74.6	914	488	1,203	561	1,291	1,300	1,530	1,504	3,931	408	1,142
(WY)	(2005)	(2005)	(2005)	(2005)	(2001)	(2004)	(2008)	(2002)	(2007)	(2007)	(2005)	(2008)
Min	0.00	0.04	0.60	1.16	5.45	43.8	68.8	174	34.1	0.05	0.17	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2006)	(2002)	(2003)	(2001)	(2006)	(2003)	(2002)	(2002)

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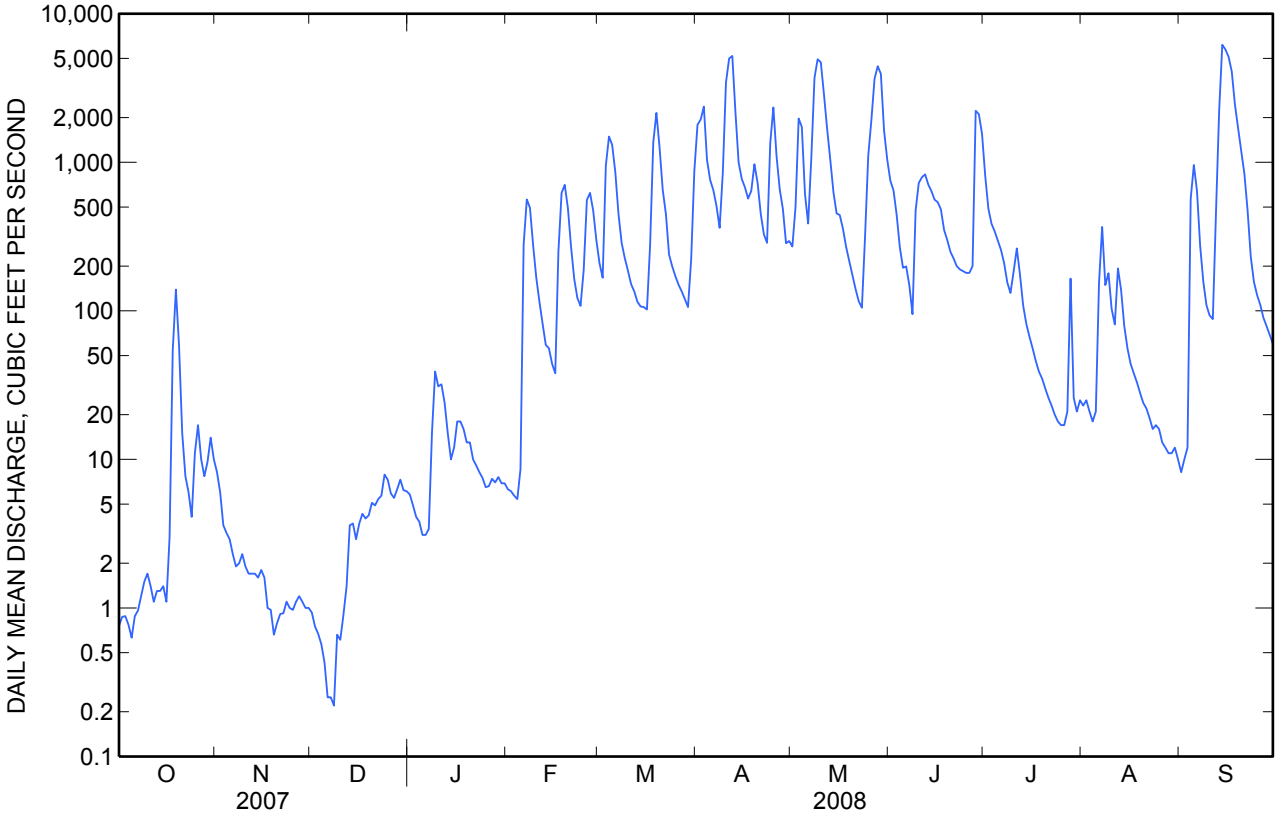
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2001 - 2008	
Annual mean	673		454		315	
Highest annual mean					672	2007
Lowest annual mean					83.1	2003
Highest daily mean	43,700	Jul 1	6,180	Sep 14	43,700	Jul 1, 2007
Lowest daily mean	0.22	Dec 8	0.22	Dec 8	0.00	Aug 7, 2002[a]
Annual seven-day minimum	0.43	Dec 4	0.43	Dec 4	0.00	Aug 7, 2002[b]
Maximum peak flow			6,690	Sep 14	48,400	Jul 1, 2007
Maximum peak stage			45.08	Sep 16	53.37	Jul 1, 2007
Instantaneous low flow			0.19	Dec 7[c]	0.00	Aug 23, 2001[d]
10 percent exceeds	1,210		1,210		705	
50 percent exceeds	27		98		26	
90 percent exceeds	0.97		1.3		0.23	

[a]Many Days 2002-2004, 2007
[b]At Times
[c]Also Dec 8
[d]Many Days 2001-2004, 2007