

03284555 WEST HICKMAN CREEK AT ASH GROVE PIKE NEAR EAST HICKMAN, KY

Kentucky Basin
Lower Kentucky Subbasin

LOCATION.--Lat 37°56'04", long 84°30'08" referenced to North American Datum of 1927, Jessamine County, KY, Hydrologic Unit 05100205, on center pier, on downstream side of bridge on Ash Grove Pike (Hwy 1980), 0.7 miles northwest of intersection with Mackey Road, 1.9 miles northwest of East Hickman, 2.4 miles southeast of Tates Creek Road (Hwy 1974), and at mile 28.3.

DRAINAGE AREA.--20.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1997 to June 12, 2012.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 868.402 feet above NGVD of 1929.

COOPERATION.--Lexington-Fayette Urban County Government.

REMARKS.--Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 27	0000	*1,070	*4.83

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	38	60	142	62	66	106	65	55	50	---	---	---
2	35	48	104	57	67	125	59	52	27	---	---	---
3	32	87	83	53	57	110	55	50	24	---	---	---
4	29	98	69	48	102	88	68	50	23	---	---	---
5	28	69	305	47	92	106	70	112	22	---	---	---
6	27	60	335	45	73	101	61	55	21	---	---	---
7	26	53	186	45	63	96	59	49	20	---	---	---
8	26	50	128	44	60	234	59	103	18	---	---	---
9	27	47	95	42	56	220	59	49	18	---	---	---
10	25	43	77	41	51	131	58	44	18	---	---	---
11	25	40	65	141	52	96	57	40	32	---	---	---
12	24	40	58	107	48	89	57	39	---	---	---	---
13	54	39	54	83	45	77	55	203	---	---	---	---
14	52	37	51	70	58	68	52	116	---	---	---	---
15	35	76	84	64	55	64	52	67	---	---	---	---
16	32	296	64	60	83	86	48	53	---	---	---	---
17	28	158	58	182	66	74	46	46	---	---	---	---
18	40	93	54	144	62	235	43	41	---	---	---	---
19	289	72	51	104	58	101	42	39	---	---	---	---
20	211	131	49	82	54	80	41	37	---	---	---	---
21	115	149	48	71	52	68	85	35	---	---	---	---
22	78	339	70	63	52	64	52	34	---	---	---	---
23	64	206	69	237	54	83	44	33	---	---	---	---
24	54	121	60	123	112	79	41	33	---	---	---	---
25	49	88	55	92	66	66	54	31	---	---	---	---
26	173	71	53	147	60	59	48	30	---	---	---	---
27	247	171	245	274	56	56	46	28	---	---	---	---
28	128	570	155	139	53	58	47	29	---	---	---	---
29	89	404	107	101	154	55	48	26	---	---	---	---
30	70	214	82	77	---	53	47	25	---	---	---	---
31	60	---	69	66	---	54	---	24	---	---	---	---
Total	2,210	3,930	3,125	2,911	1,927	2,982	1,618	1,628	---	---	---	---
Mean	71.3	131	101	93.9	66.4	96.2	53.9	52.5	---	---	---	---
Max	289	570	335	274	154	235	85	203	---	---	---	---
Min	24	37	48	41	45	53	41	24	---	---	---	---
Cfsm	3.48	6.39	4.92	4.58	3.24	4.69	2.63	2.56	---	---	---	---
In.	4.01	7.13	5.67	5.28	3.50	5.41	2.94	2.95	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	52.1	63.3	75.6	80.6	87.5	86.0	86.3	89.8	59.1	57.8	47.9	58.9
Max	99.6	136	145	107	163	153	198	172	135	105	93.9	143
(WY)	(2003)	(2004)	(2008)	(2006)	(2003)	(2008)	(2011)	(2004)	(1998)	(1998)	(2004)	(2006)
Min	22.4	23.6	33.4	42.6	37.5	35.2	39.6	31.0	26.7	25.6	20.6	18.9
(WY)	(2011)	(2000)	(2000)	(2001)	(2002)	(2010)	(2001)	(1999)	(1999)	(1999)	(1999)	(1999)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Years 1998 - 2012	
Annual total	33,492			
Annual mean	91.8		70.0	
Highest annual mean			97.3	2004
Lowest annual mean			45.0	1999
Highest daily mean	870	Apr 12	1,880	May 2, 2010
Lowest daily mean	20	Aug 30	12	Nov 5, 1998
Annual seven-day minimum	21	Aug 28	17	Aug 16, 1999
Maximum peak flow			4,980	Sep 23, 2006
Maximum peak stage			8.81	Sep 23, 2006
Instantaneous low flow			1.4	Nov 5, 1998
Annual runoff (cfsm)	4.48		3.42	
Annual runoff (inches)	60.78		46.42	
10 percent exceeds	195		133	
50 percent exceeds	55		43	
90 percent exceeds	32		24	

