

Water-Data Report 2011

03290500 KENTUCKY RIVER AT LOCK 2 AT LOCKPORT, KY

Kentucky Basin
Lower Kentucky Subbasin

LOCATION.--Lat 38°26'20", long 84°57'48" referenced to North American Datum of 1927, Henry County, KY, Hydrologic Unit 05100205, on left bank at Lock 2 at Lockport, 0.1 mile downstream from Sixmile Creek and at mile 31.0.

DRAINAGE AREA.--6,180 mi² of which 196 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1925 to September 1930, March 1931 to September 1931, December 1931 to April 1932, October 1933 to September 1937, and July 1939 to current year. Monthly discharge only for some periods, published in WSP 1305. Monthly discharge only for October 1930 to March 1931, October 1931 to April 1932, and October 1938 to June 1939, published in WSP 1305; figures of daily discharge published in WSP 698 are unreliable.

REVISED RECORDS.--WSP 1385: 1926-29, 1932, 1934-37, 1945. WSP 1955: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 433.36 feet above NGVD of 1929. Prior to August 29, 1975, nonrecording gage at same site and datum. Auxiliary water-stage recorder with telemetry located in the lower pool at Lock 3. Datum of gage is 434.71 feet above NGVD of 1929.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District and the Kentucky River Authority.

REMARKS.--Records good except for those estimated and for those less than 1,000 ft³/s, which are poor. Flow regulated by Herrington Lake beginning November 1925 (station 03286000), Buckhorn Lake beginning December 1960 (station 03280800), Carr Fork Lake beginning January 1976 (station 03277446), and by hydroelectric plant at Lock 7.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	383	1,440	5,450	5,790	10,600	51,900	7,030	43,800	8,710	3,070	3,020	499
2	322	1,160	15,100	7,400	18,600	51,000	6,840	27,200	6,600	2,960	2,530	393
3	339	834	22,700	11,800	20,600	46,600	6,720	48,400	5,110	2,490	2,010	394
4	442	655	15,400	16,600	15,500	34,300	7,800	55,000	4,150	1,960	2,210	347
5	529	591	8,780	13,500	11,900	23,300	13,000	49,400	3,680	1,660	2,450	596
6	540	522	5,810	10,400	10,100	28,600	27,200	37,700	3,280	1,500	1,800	1,170
7	511	718	4,430	8,360	8,600	36,900	34,400	24,200	2,530	1,620	1,550	1,770
8	477	985	3,740	6,900	e8,820	41,600	28,800	19,000	2,060	2,640	1,630	3,690
9	437	1,080	3,110	5,810	e8,450	46,900	20,000	15,700	2,120	5,070	1,980	12,000
10	406	971	2,610	5,060	e7,830	47,600	19,700	13,400	2,030	4,580	1,880	10,400
11	413	861	2,230	4,380	7,220	43,800	22,800	11,700	2,390	3,030	1,560	7,330
12	376	808	2,710	3,640	5,700	40,600	53,600	10,300	2,160	2,450	1,380	5,370
13	330	775	2,960	3,110	4,710	40,700	71,300	9,190	1,930	2,360	1,430	3,750
14	329	736	4,170	2,710	4,390	33,200	63,300	8,720	1,780	2,510	1,510	2,590
15	291	712	6,130	e2,240	4,240	25,900	46,100	8,390	1,730	4,060	1,370	1,800
16	288	744	6,160	e2,020	3,870	24,600	41,500	7,830	1,800	4,520	2,240	1,480
17	283	809	5,890	e1,940	3,910	21,900	47,200	7,370	1,620	3,870	2,270	1,370
18	270	927	9,420	e2,020	3,700	18,400	49,300	5,960	1,710	6,650	2,190	1,290
19	273	1,280	15,300	2,640	3,450	16,500	47,600	5,100	1,890	6,420	2,280	1,150
20	274	1,740	12,800	2,970	3,170	15,100	35,300	5,860	2,200	5,330	1,530	1,030
21	255	1,830	9,530	3,500	2,990	13,200	26,700	6,490	3,640	5,180	1,280	1,160
22	237	1,480	7,500	3,890	3,830	11,900	21,400	5,880	17,400	8,260	964	1,500
23	241	1,320	6,310	3,960	4,860	10,900	34,800	7,120	19,100	5,660	821	2,480
24	211	1,220	5,450	3,800	5,340	10,400	51,200	16,200	13,600	4,630	879	2,160
25	228	1,520	4,840	3,580	39,400	10,700	50,800	18,500	8,760	6,790	956	1,930
26	446	3,100	4,390	4,110	51,100	10,500	39,000	20,900	5,980	6,790	1,130	2,570
27	791	2,990	4,100	5,800	41,900	10,000	30,100	23,400	4,480	5,060	1,190	3,520
28	901	2,830	3,840	8,680	38,900	9,530	46,300	20,800	3,480	4,400	1,030	3,810
29	991	2,640	3,440	12,300	---	8,720	58,200	18,600	2,960	4,820	789	3,020
30	1,220	4,300	4,050	12,800	---	8,020	55,600	14,900	2,810	3,900	665	2,190
31	1,560	---	4,650	11,600	---	7,520	---	11,600	---	3,080	572	---
Mean	471	1,386	6,871	6,236	12,630	25,830	35,450	18,660	4,723	4,107	1,584	2,759
Max	1,560	4,300	22,700	16,600	51,100	51,900	71,300	55,000	19,100	8,260	3,020	12,000
Min	211	522	2,230	1,940	2,990	7,520	6,720	5,100	1,620	1,500	572	347

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,799	5,394	10,670	12,580	14,840	15,840	12,960	11,030	6,366	2,849	2,406	2,582
Max	14,120	13,960	39,510	32,950	40,180	37,680	35,450	34,340	23,380	8,458	8,589	14,740
(WY)	(1990)	(1987)	(1979)	(1979)	(1989)	(1997)	(2011)	(1983)	(1997)	(1998)	(1992)	(1979)
Min	225	511	1,299	770	5,952	4,423	2,074	1,832	508	545	307	187
(WY)	(2009)	(2000)	(2006)	(1981)	(2002)	(1983)	(1986)	(1986)	(1988)	(1999)	(1999)	(1999)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1977 - 2011	
Annual mean	6,732		10,030		8,326	
Highest annual mean					14,030	1979
Lowest annual mean					3,891	1988
Highest daily mean	105,000	May 5	71,300	Apr 13	121,000	Dec 11, 1978
Lowest daily mean	211	Oct 24	211	Oct 24	112	Sep 16, 1999
Annual seven-day minimum	246	Oct 19	246	Oct 19	125	Sep 10, 1999
Maximum peak flow			72,700	Apr 13	123,000	Jan 26, 1937
Maximum peak stage			37.42	Apr 13	56.85	Jan 24, 1937
10 percent exceeds	14,200		34,300		20,800	
50 percent exceeds	3,100		4,060		4,030	
90 percent exceeds	415		693		576	

