

Water-Data Report 2012

03294500 OHIO RIVER AT LOUISVILLE, KY

Lower Ohio-Salt Basin
Silver-Little Kentucky Subbasin

LOCATION.--Lat 38°16'49", long 85°47'57" referenced to North American Datum of 1927, Jefferson County, KY, Hydrologic Unit 05140101, on left bank at downstream end of lock guide wall in lower pool at McAlpine Locks at Louisville, 5.3 miles downstream from Beargrass Creek, and at mile 607.3.

DRAINAGE AREA.--91170.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1935 monthly discharge only, published in WSP 1305. Gage-height records collected in this vicinity since 1871 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 893: 1939, KY-92-1 peak.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 373.18 feet above NGVD of 1929 or 374.00 feet Ohio River datum. Prior to October 1, 1939, and October 1, 1943 to September 30, 1946, various combinations of gages near Louisville were used. October 1, 1939 to September 30, 1943, water-stage recorders at Louisville and Kosmosdale, downstream from McAlpine Dam (4 miles and 20.1 miles, respectively), were used to determine discharge. October 1, 1946 to September 30, 1961, nonrecording gage at site 0.3 mile upstream at same datum. October 1, 1952 to September 30, 1970, upper nonrecording gage at dam 43, 25.9 miles downstream used as an auxiliary gage. Since October 1, 1970, auxiliary water-stage recorder at Kosmosdale, 19.8 miles downstream. Datum of auxiliary gage is 372.75 feet above NGVD of 1929 or 373.67 feet above Ohio River Datum.

COOPERATION.--U.S. Army Corps of Engineers, Louisville District.

REMARKS.--Records good except for those estimated and for discharges less than 20,000 ft³/s, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	61,000	169,000	431,000	330,000	371,000	155,000	109,000	156,000	58,600	21,300	29,700	19,700
2	60,800	157,000	418,000	281,000	330,000	234,000	112,000	155,000	62,400	26,100	30,000	8,250
3	61,000	142,000	384,000	230,000	288,000	319,000	109,000	187,000	56,900	21,200	26,800	26,100
4	78,600	127,000	346,000	197,000	257,000	385,000	113,000	197,000	74,000	22,400	26,600	24,900
5	90,300	120,000	344,000	179,000	233,000	418,000	100,000	229,000	54,600	21,600	25,000	15,000
6	91,700	96,200	420,000	157,000	209,000	421,000	92,300	257,000	52,000	35,900	24,800	19,500
7	90,700	75,500	396,000	141,000	191,000	397,000	92,900	285,000	47,700	17,200	35,400	25,900
8	80,600	70,000	347,000	130,000	170,000	340,000	88,400	292,000	38,600	18,200	39,000	30,100
9	60,600	74,700	349,000	113,000	158,000	291,000	72,800	277,000	24,000	9,430	34,600	28,100
10	50,000	58,100	393,000	103,000	146,000	271,000	64,000	265,000	26,100	12,000	23,000	25,300
11	56,300	56,300	415,000	104,000	131,000	273,000	60,600	279,000	39,700	28,600	24,600	25,500
12	55,700	53,200	401,000	111,000	115,000	284,000	56,000	268,000	30,300	23,700	28,100	25,100
13	39,600	52,600	341,000	e139,000	107,000	269,000	50,500	231,000	26,900	9,780	27,700	20,600
14	54,900	56,800	266,000	e172,000	102,000	226,000	48,400	230,000	38,600	16,200	27,700	13,500
15	90,800	78,600	208,000	e186,000	84,700	191,000	54,900	190,000	32,000	27,300	23,900	8,410
16	122,000	111,000	192,000	e187,000	87,300	204,000	58,300	161,000	30,900	24,800	18,600	9,340
17	109,000	175,000	186,000	e212,000	107,000	226,000	47,000	149,000	33,200	37,700	16,000	9,280
18	89,700	250,000	170,000	e260,000	115,000	236,000	46,200	148,000	17,400	29,000	15,200	16,100
19	79,600	277,000	162,000	e271,000	132,000	224,000	44,600	141,000	45,100	32,100	14,500	42,800
20	96,500	271,000	162,000	e286,000	150,000	206,000	38,700	98,200	46,500	33,200	14,000	37,700
21	161,000	226,000	161,000	300,000	151,000	212,000	37,600	69,400	34,700	42,700	14,400	31,600
22	179,000	207,000	192,000	290,000	133,000	229,000	48,100	52,100	25,900	67,900	7,820	45,300
23	164,000	287,000	218,000	285,000	125,000	211,000	49,800	48,400	21,200	28,700	10,300	34,800
24	142,000	361,000	238,000	318,000	124,000	201,000	41,800	62,000	20,700	36,200	28,000	20,100
25	120,000	398,000	268,000	330,000	130,000	175,000	47,200	50,000	30,400	44,600	17,600	16,300
26	109,000	407,000	296,000	e310,000	147,000	153,000	64,100	42,500	9,740	22,700	10,700	21,100
27	110,000	400,000	307,000	e365,000	161,000	158,000	89,600	35,300	14,000	33,200	9,460	51,100
28	122,000	392,000	319,000	410,000	159,000	174,000	150,000	41,000	20,600	88,900	5,410	45,000
29	158,000	426,000	339,000	398,000	147,000	165,000	197,000	e53,300	14,000	93,200	12,000	59,500
30	177,000	430,000	365,000	398,000	---	144,000	171,000	e55,100	10,300	77,100	15,500	68,200
31	178,000	---	364,000	395,000	---	121,000	---	60,800	---	63,200	20,200	---
Total	3,139,400	6,005,000	9,398,000	7,588,000	4,761,000	7,513,000	2,354,800	4,765,100	1,037,040	1,066,110	656,590	824,180
Mean	101,300	200,200	303,200	244,800	164,200	242,400	78,490	153,700	34,570	34,390	21,180	27,470
Max	179,000	430,000	431,000	410,000	371,000	421,000	197,000	292,000	74,000	93,200	39,000	68,200
Min	39,600	52,600	161,000	103,000	84,700	121,000	37,600	35,300	9,740	9,430	5,410	8,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40,410	73,240	127,700	169,300	192,400	243,200	203,900	148,900	87,960	55,800	43,830	36,490
Max	169,200	245,900	321,300	595,800	430,400	524,300	417,400	392,900	234,400	163,400	151,300	207,000
(WY)	(2007)	(1986)	(1973)	(1937)	(1939)	(1945)	(2011)	(1996)	(1981)	(1958)	(1958)	(2004)
Min	4,377	6,660	14,090	21,630	38,010	69,390	66,480	29,350	16,400	8,035	4,924	6,005
(WY)	(1931)	(1931)	(1931)	(1931)	(1934)	(1969)	(1986)	(1941)	(1988)	(1930)	(1930)	(1930)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1929 - 2012	
Annual total	68,720,230		49,108,220			
Annual mean	188,300		134,200		118,200	
Highest annual mean					184,400	2004
Lowest annual mean					57,390	1954
Highest daily mean	644,000	Apr 27	431,000	Dec 1	1,110,000	Jan 27, 1937
Lowest daily mean	7,610	Aug 31	5,410	Aug 28	877	Sep 21, 2010
Annual seven-day minimum	18,500	Aug 30	12,800	Aug 22	3,530	Oct 15, 1930
Maximum peak flow			433,000	Dec 1	1,110,000	Jan 27, 1937
Maximum peak stage			47.12	Nov 30	85.44	Jan 27, 1937
10 percent exceeds	457,000		330,000		284,000	
50 percent exceeds	120,000		94,700		74,700	
90 percent exceeds	37,800		20,200		17,100	

