

03293510 BEARGRASS CREEK AT RIVER ROAD AT LOUISVILLE, KY

Lower Ohio-Salt Basin
Salt Subbasin

LOCATION.--Lat 38°16'01", long 85°43'17" referenced to North American Datum of 1927, Jefferson County, KY, Hydrologic Unit 05140102, on upstream side of railroad bridge 100 feet upstream from River Road at Louisville, and 0.25 miles upstream of Ohio River.

DRAINAGE AREA.--60.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2008 to current year.

GAGE.--Water-stage index velocity recorder with telemetry. Datum of gage is 412.18 feet above NGVD of 1929.

COOPERATION.--Louisville and Jefferson County Metropolitan Sewer District.

REMARKS.--Records fair, except for those estimated and for discharges less than 20 ft³/s, which are poor. Flow and gage height elevation are constantly affected by variable backwater and tidal effects from confluence with the Ohio River which is less than ½ mile downstream of station. These reverse flows can at times lead to daily negative discharges. Discharge computed from continuous velocity record obtained from acoustic doppler velocity meter.

REVISIONS.--2009 water year: Maximum discharge, 8,520 ft³/s, August 4, gage height, 12.49 feet; minimum discharge, -365 ft³/s, October 31, gage height, 8.23 feet. Maximum gage height, 13.93 feet, May 10, Backwater.

2010 water year: Maximum discharge, 4,410 ft³/s, May 2, gage height, 11.31 feet; minimum discharge, -372 ft³/s, September 5, gage height, 8.10 feet. Maximum gage height, 17.60 feet, May 6, Backwater.

2012 water year: Maximum gage height, 14.19 feet, December 1, Backwater.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	156	2.4	-4.4	88	e80	52	37	52	80	107	18	556
2	234	12	8.0	60	e77	51	33	43	23	92	-0.31	189
3	57	-9.6	23	53	e77	43	29	31	7.3	56	-2.5	56
4	34	5.3	66	46	e81	43	30	48	4.0	190	-4.7	28
5	25	-3.9	67	39	90	e50	29	314	0.48	119	-5.5	13
6	19	1.2	14	35	89	e60	31	123	-5.8	471	3.4	6.3
7	9.5	-3.5	590	31	60	e49	29	107	-4.5	196	-10	-0.45
8	7.9	5.9	519	28	57	e45	30	70	-4.8	143	0.06	13
9	1.5	-0.40	265	29	37	e41	27	61	-6.7	100	66	39
10	-7.1	9.5	853	31	40	57	36	492	58	469	65	4.4
11	-7.1	2.0	107	256	52	549	168	475	26	180	17	-5.7
12	-2.7	57	42	80	32	211	193	125	0.28	71	186	-1.8
13	-7.6	27	33	1,740	35	107	59	86	-2.4	70	354	-7.6
14	-8.7	7.1	35	760	29	81	48	78	8.3	147	47	-8.0
15	-23	4.8	66	205	29	67	55	91	4.0	156	38	-18
16	-6.9	-0.70	59	150	16	72	99	136	12	54	27	-26
17	-7.4	4.1	96	94	21	286	153	59	444	42	13	-16
18	33	3.3	61	51	26	1,050	47	44	747	72	3.8	-21
19	15	3.3	32	52	55	281	447	46	86	42	-3.0	-23
20	-4.0	6.0	238	80	29	143	104	40	53	20	22	27
21	-17	2.7	94	76	23	95	89	32	123	104	26	698
22	-9.6	13	51	56	87	79	76	40	97	869	1.7	68
23	-3.6	-5.6	41	43	44	91	68	44	33	172	-11	28
24	5.1	6.9	41	29	32	137	281	14	41	64	-6.5	23
25	1.6	4.0	36	32	31	118	104	12	26	52	-1.2	16
26	47	-7.0	454	29	144	58	62	9.3	1,290	53	-6.8	0.59
27	78	-17	175	31	126	52	54	8.4	185	30	-14	3.2
28	18	-4.2	91	44	60	50	70	7.0	201	13	-8.8	-7.0
29	9.2	-5.8	88	54	---	49	53	7.9	144	13	-12	-15
30	-1.9	-4.6	62	352	---	49	48	9.5	200	14	-3.4	-12
31	5.9	---	64	e102	---	52	---	44	---	14	62	---
Mean	21.0	3.84	141	153	55.7	134	86.3	88.7	129	135	27.8	53.6
Max	234	57	853	1,740	144	1,050	447	492	1,290	869	354	698
Min	-23	-17	-4.4	28	16	41	27	7.0	-6.7	13	-14	-26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	47.4	81.6	112	103	88.1	114	290	206	98.8	67.6	15.4	45.2
Max	151	199	211	153	168	219	924	345	196	135	31.0	80.3
(WY)	(2010)	(2012)	(2012)	(2013)	(2011)	(2011)	(2011)	(2011)	(2011)	(2013)	(2011)	(2011)
Min	-3.27	3.84	40.1	38.1	49.9	33.2	61.6	88.7	43.7	28.6	-4.81	-14.3
(WY)	(2011)	(2013)	(2011)	(2011)	(2012)	(2010)	(2010)	(2013)	(2008)	(2012)	(2008)	(2010)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2008 - 2013	
Annual mean	74.9		86.3		110	
Highest annual mean					179	2011
Lowest annual mean					79.8	2010
Highest daily mean	2,120	May 29	1,740	Jan 13	5,550	Apr 27, 2011
Lowest daily mean	-25	Jul 13	-26	Sep 16	-64	Apr 21, 2011
Annual seven-day minimum	-16	Sep 18	-17	Sep 13	-25	Aug 28, 2011
Maximum peak flow			4,630	Jun 26	8,520	Aug 4, 2009
Maximum peak stage			B14.58	Feb 4	27.05	Apr 27, 2011
10 percent exceeds	164		189		219	
50 percent exceeds	32		41		37	
90 percent exceeds	-12		-4.7		-8.7	

