

Water-Data Report 2011

03293530 MUDDY FORK AT MOCKINGBIRD VALLEY ROAD AT LOUISVILLE, KY

Lower Ohio-Salt Basin
Silver-Little Kentucky Subbasin

LOCATION.--Lat 38°16'35", long 85°41'37" referenced to North American Datum of 1927, Jefferson County, KY, Hydrologic Unit 05140101, at culvert on Mockingbird Valley Road at Louisville, 0.5 miles west of Indian Hills subdivision, 1.0 mile north of St. Matthews, and at mile 1.5.

DRAINAGE AREA.--6.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2002 to September 2003. October 2005 to current year.

REVISED RECORDS.--WDR-KY-11-01: 2005-2010 (Annual Mean).

GAGE.--Water-stage recorder with telemetry and crest-stage gage. Datum of gage is 424.62 feet above NGVD of 1929. Prior to October 2004 at datum 0.79 feet lower.

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

REMARKS.--Records fair except for those estimated, which are poor.

REVISIONS.--The annual mean for water years 2005-2010 have been revised in the following table. They supersede figures published in reports from 2005-2010. Statistics have been computed from 2005 to current year due to the break in record in 2004.

Water Year	Annual Mean
2005	11.3
2006	10.2
2007	9.20
2008	9.78
2009	10.2

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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	0.32	1.5	9.2	15	15	e11	2.8	e0.60	3.9	2.1	0.41	0.73
2	0.36	1.5	5.8	6.9	13	e0.87	3.2	e0.61	3.3	1.9	0.29	0.47
3	0.51	1.5	3.7	4.9	6.7	e0.78	2.6	e0.60	e2.3	1.6	0.44	0.63
4	0.41	1.6	3.5	3.9	5.3	e0.73	20	e0.65	e1.9	2.0	0.30	0.79
5	0.40	1.5	3.6	3.7	5.8	e0.73	9.3	e0.60	e1.7	1.3	0.33	0.96
6	0.36	1.4	e3.1	3.5	4.7	e0.68	5.3	e0.63	e1.6	1.2	0.38	1.3
7	0.37	1.4	e3.0	e2.1	5.8	e0.68	4.7	e0.63	e1.6	0.98	29	2.1
8	0.41	1.4	e2.8	e1.5	e4.7	e0.63	4.2	e0.60	2.3	2.7	2.9	2.2
9	0.21	1.3	e2.8	e1.2	e3.7	e238	14	e0.56	2.0	1.4	1.8	1.9
10	0.31	1.3	e2.8	e1.2	e2.7	e0.63	6.0	e0.63	1.6	1.0	1.3	1.9
11	0.42	1.3	e2.8	e1.1	e2.5	e0.68	52	e0.63	2.4	0.84	0.97	3.0
12	0.18	1.3	e2.8	e1.1	e2.5	e0.78	e390	e0.65	1.7	0.99	0.80	9.0
13	0.70	1.3	e2.7	e1.1	3.0	e0.78	e124	e0.65	1.4	2.6	12	2.8
14	3.9	1.6	e2.7	e1.1	2.7	e0.78	e27	e0.70	1.5	0.98	6.0	2.0
15	1.7	1.6	e2.7	e1.0	2.5	e0.78	e14	e0.74	26	0.71	1.6	3.2
16	1.5	6.4	e2.7	e0.97	2.4	e0.78	e8.1	e1.1	3.9	0.72	1.1	2.7
17	1.6	5.5	e2.7	e1.1	2.3	e1.3	e4.2	e1.6	2.4	0.63	0.78	1.9
18	1.6	2.0	e2.7	e3.2	2.2	e2.4	e2.6	e2.1	6.4	1.2	6.0	1.7
19	1.8	1.8	e2.7	4.6	1.9	e4.1	e2.3	e5.7	8.1	1.1	1.7	7.5
20	1.8	1.4	e3.0	e3.3	1.9	e5.9	e1.7	e7.0	29	18	1.3	3.8
21	1.7	1.2	2.3	e2.6	2.2	8.8	e1.2	7.4	25	2.4	0.94	2.1
22	1.7	1.2	2.6	e2.5	3.1	8.0	e0.86	9.4	104	1.3	0.59	1.9
23	1.8	3.7	2.3	e2.4	2.0	10	e0.68	36	e438	0.88	0.44	14
24	1.9	9.1	2.2	e2.4	34	4.6	e0.60	27	18	2.2	0.33	2.0
25	2.2	70	2.1	e3.0	225	4.0	e0.56	7.7	9.2	2.5	0.25	1.2
26	3.0	29	e1.6	4.0	e35	3.8	e0.58	85	7.8	0.80	0.16	e303
27	2.7	5.7	e1.2	3.7	e18	3.6	e0.59	21	5.4	0.64	0.22	9.4
28	1.5	3.6	e0.92	3.7	e67	3.7	e0.58	11	4.0	0.55	0.45	4.2
29	1.3	3.0	e0.92	3.5	---	3.2	e0.58	7.7	3.1	0.41	0.37	2.9
30	1.4	53	e6.5	3.3	---	3.0	e0.58	6.0	2.5	0.40	0.35	1.9
31	1.6	---	4.8	3.1	---	3.2	---	4.6	---	0.39	0.95	---
Total	39.66	218.1	95.24	96.67	477.6	328.91	704.81	249.78	722.0	56.42	74.45	393.18
Mean	1.28	7.27	3.07	3.12	17.1	10.6	23.5	8.06	24.1	1.82	2.40	13.1
Max	3.9	70	9.2	15	225	238	390	85	438	18	29	303
Min	0.18	1.2	0.92	0.97	1.9	0.63	0.56	0.56	1.4	0.39	0.16	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.08	8.73	10.2	11.5	11.0	14.0	15.6	12.9	7.47	6.19	9.28	6.83
Max	18.0	25.4	23.3	24.9	17.1	35.2	33.9	34.1	24.1	18.1	45.3	15.7
(WY) (2010)	(2005)	(2008)	(2005)	(2011)	(2008)	(2008)	(2008)	(2010)	(2011)	(2009)	(2009)	(2006)
Min	0.51	0.44	3.07	3.10	7.01	4.57	5.14	6.17	1.56	1.82	0.84	0.38
(WY) (2009)	(2009)	(2011)	(2009)	(2006)	(2009)	(2010)	(2006)	(2006)	(2005)	(2011)	(2010)	(2010)

03293530 MUDDY FORK AT MOCKINGBIRD VALLEY ROAD AT LOUISVILLE, KY—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2005 - 2011	
Annual total	3,059.34	3,456.82		
Annual mean	8.38	9.47	10.1	
Highest annual mean			11.5	2008
Lowest annual mean			7.18	2007
Highest daily mean	287	May 2	438	Jun 23
Lowest daily mean	0.00	Jul 16	0.16	Aug 26
Annual seven-day minimum	0.01	Sep 14	0.30	Aug 24
Maximum peak flow			1,330	Jun 23
Maximum peak stage			15.14	Apr 27
Instantaneous low flow			0.00	Jul 15, 2010
10 percent exceeds	14	10	19	
50 percent exceeds	2.8	2.1	3.8	
90 percent exceeds	0.36	0.58	0.59	

