Water-Data Report 2011

03301700 MILL CREEK NEAR FORT KNOX, KY

Lower Ohio-Salt Basin
Blue-Sinking Subbasin

LOCATION.--Lat 37°53′00″, long 85°54′52″ referenced to North American Datum of 1927, Hardin County, KY, Hydrologic Unit 05140104, on upstream left bank at bridge on Poorman Road, 2.2 miles southeast of Fort Knox and at mile 8.0.

DRAINAGE AREA.--38.2 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 433.67 feet above NGVD of 1929.

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

REMARKS.--Records good except for those estimated and for those greater than 2,200 ft^3/s, which are poor.

REVISIONS.--WDR KY06-1: Peaks.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 12	0630	*4,800	*11.21

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03301700, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03301700.2011.pdf

03301700 MILL CREEK NEAR FORT KNOX, KY—Continued

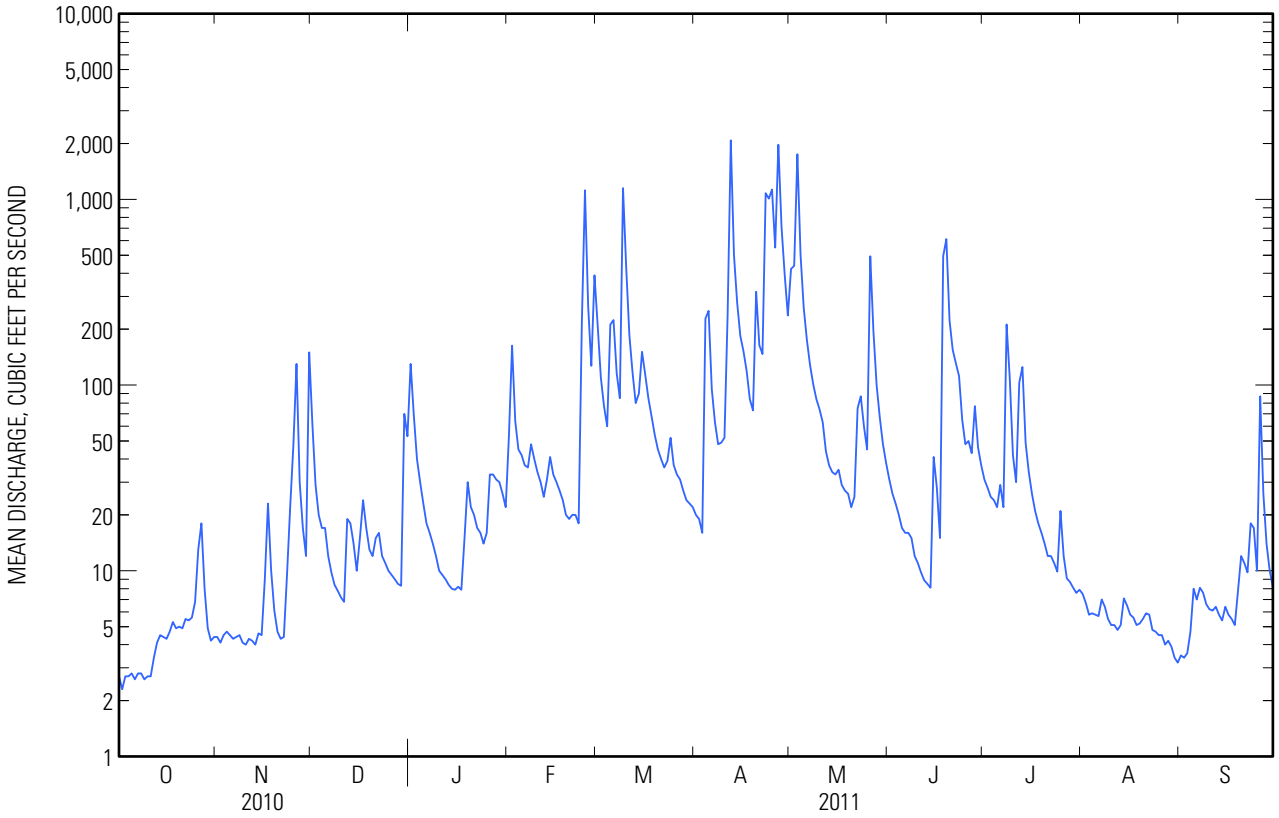
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.7	4.4	62	130	53	210	20	422	31	31	7.5	3.5
2	2.3	4.1	29	69	163	110	19	439	26	28	6.7	3.4
3	2.7	4.5	20	40	64	77	16	1,750	23	25	5.8	3.6
4	2.7	4.7	17	e30	45	60	228	504	20	24	5.9	4.7
5	2.8	4.5	17	e23	42	212	251	261	17	22	5.8	8.0
6	2.6	4.3	e12	e18	37	224	95	175	16	29	5.7	7.0
7	2.8	4.4	e9.8	e16	36	116	63	128	16	22	7.0	8.1
8	2.8	4.5	e8.4	e14	48	85	48	101	15	212	6.4	7.6
9	2.6	4.1	e7.8	e12	40	1,150	49	84	12	109	5.5	6.6
10	2.7	4.0	e7.2	e10	34	430	52	74	11	42	5.1	6.2
11	2.7	4.3	e6.8	e9.5	30	186	240	63	9.8	30	5.1	6.1
12	3.4	4.2	19	e9.0	25	117	2,080	44	8.9	103	4.8	6.4
13	4.1	4.0	18	e8.4	31	80	502	37	8.5	125	5.1	5.8
14	4.5	4.6	e14	e8.0	41	90	279	34	8.1	49	7.1	5.4
15	4.4	4.5	e10	e7.9	33	151	184	33	41	34	6.5	6.4
16	4.3	9.0	e15	8.2	30	114	152	35	28	26	5.8	5.8
17	4.7	23	24	7.9	27	85	119	29	15	21	5.6	5.5
18	5.3	10	17	15	24	68	84	27	495	18	5.1	5.1
19	4.9	6.1	e13	30	20	54	73	26	611	16	5.2	7.8
20	5.0	4.7	e12	e22	19	45	318	22	223	14	5.5	12
21	4.9	4.3	15	e20	20	40	164	25	155	12	5.9	11
22	5.5	4.4	16	e17	20	36	147	75	131	12	5.8	9.8
23	5.4	9.5	e12	e16	18	39	1,080	87	112	11	4.8	18
24	5.6	22	e11	14	212	52	1,010	60	65	9.9	4.7	17
25	6.8	47	e10	16	1,120	37	1,130	45	48	21	4.5	10
26	13	130	e9.5	33	267	33	550	494	50	12	4.5	87
27	18	30	e9.0	33	127	31	1,970	194	43	9.1	4.0	26
28	8.0	17	e8.5	31	390	27	712	100	77	8.7	4.2	14
29	4.9	12	e8.3	30	---	24	393	67	46	8.1	3.9	10
30	4.2	150	70	26	---	23	237	48	37	7.6	3.4	8.2
31	4.4	---	53	22	---	22	---	38	---	7.9	3.2	---
Total	150.7	544.1	561.3	745.9	3,016	4,028	12,265	5,521	2,399.3	1,099.3	166.1	336.0
Mean	4.86	18.1	18.1	24.1	108	130	409	178	80.0	35.5	5.36	11.2
Max	18	150	70	130	1,120	1,150	2,080	1,750	611	212	7.5	87
Min	2.3	4.0	6.8	7.9	18	22	16	22	8.1	7.6	3.2	3.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	39.7	38.9	77.1	85.5	104	102	127	110	25.7	21.2	13.7	37.0
Max	155	90.6	180	138	190	280	409	226	80.0	41.5	33.9	183
(WY)	(2010)	(2002)	(2008)	(2005)	(2008)	(2002)	(2011)	(2002)	(2011)	(2009)	(2005)	(2006)
Min	4.86	4.67	18.1	21.1	50.2	26.8	29.4	16.2	5.51	4.56	3.28	2.44
(WY)	(2011)	(2000)	(2011)	(2001)	(2002)	(2010)	(2001)	(2001)	(2007)	(1999)	(1999)	(2008)

03301700 MILL CREEK NEAR FORT KNOX, KY—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1999 - 2011	
Annual total	16,369.9		30,832.7			
Annual mean	44.8		84.5		65.0	
Highest annual mean					101	2008
Lowest annual mean					31.6	2001
Highest daily mean	2,470	May 2	2,080	Apr 12	2,810	Apr 4, 2008
Lowest daily mean	1.7	Sep 1	2.3	Oct 2	1.0	Sep 21, 2007
Annual seven-day minimum	1.7	Aug 31	2.7	Oct 1	1.1	Sep 19, 2007
Maximum peak flow			4,800	Apr 12	7,570	Sep 23, 2006
Maximum peak stage			11.21	Apr 12	13.11	Apr 4, 2008
Instantaneous low flow					0.91	Sep 14, 2008
10 percent exceeds	89		185		139	
50 percent exceeds	13		19		22	
90 percent exceeds	2.7		4.5		4.0