

**03141870 LEATHERWOOD CREEK NEAR KIPLING, OH**

Muskingum Basin  
Wills Subbasin

LOCATION.--Lat 39°59'24", long 81°29'45" referenced to North American Datum of 1927, Guernsey County, OH, Hydrologic Unit 05040005, on left bank at Deerfield Road bridge, 0.5 mi southeast of village of Kipling, and 0.75 mi downstream from Hawkins Run.

DRAINAGE AREA.--69.5 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 2000 to current year.

REVISED RECORDS.--WSP 853: 1929(M). WSP 893: 1928. WSP 973: 1942.

GAGE.--Water-stage recorder. Datum of gage is 795.78 ft NGVD 1929.

REMARKS.--Records good except for periods of estimated record, which are poor. Satellite telemeter at gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 950 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 1	0930	1,110	10.97
Feb 25	2130	*1,520	*12.04
Mar 6	1500	1,090	10.88
Mar 11	0330	1,310	11.53
Apr 5	1530	1,190	11.19
Apr 13	0530	1,080	10.83
Apr 17	0230	1,500	12.00
Apr 20	0530	1,480	11.95

Minimum discharge, 0.55 ft<sup>3</sup>/s, Oct. 14, 17, gage height, 2.14 ft.

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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	3.0	2.1	936	71	45	283	45	106	15	19	3.8	5.0
2	2.2	1.5	227	120	692	146	44	103	13	16	3.0	4.6
3	2.1	1.2	71	e45	320	106	47	284	11	15	2.5	4.7
4	1.8	0.88	48	e29	e104	96	91	445	11	14	2.4	5.0
5	4.5	0.94	37	e23	e79	205	1,010	156	68	14	3.2	18
6	4.4	1.2	30	e21	e66	919	425	112	40	11	3.1	33
7	5.4	1.3	26	e18	e58	398	145	116	33	10	72	34
8	4.9	1.3	e22	e16	e61	167	110	91	82	10	20	35
9	3.7	1.6	e20	e15	e50	452	115	76	30	11	40	22
10	2.8	3.3	e19	e14	e39	1,080	89	63	21	8.6	24	13
11	2.1	5.2	e18	e13	e30	1,070	82	59	55	7.4	11	9.9
12	1.6	5.5	67	e13	e30	396	463	55	29	16	7.6	8.3
13	1.1	7.4	117	e12	e29	213	873	67	18	11	5.6	7.0
14	0.88	9.7	58	e12	e42	169	273	72	15	7.9	39	5.7
15	1.1	9.7	e41	e12	e45	144	145	128	13	6.2	22	6.2
16	0.80	12	e32	e12	e40	155	643	64	13	5.3	19	10
17	0.72	16	25	e12	e39	117	1,110	64	33	4.8	10	7.6
18	0.94	21	e22	e12	e44	99	264	224	499	5.7	7.1	5.5
19	2.1	19	e19	e26	e44	82	715	91	119	19	5.5	6.0
20	2.3	16	e17	42	e43	71	1,260	67	160	11	7.9	22
21	3.7	16	e17	e35	179	70	368	51	89	6.0	8.4	17
22	3.0	15	e16	e29	525	69	180	42	87	5.1	6.9	11
23	2.4	17	e16	e25	189	62	601	39	52	4.9	6.9	15
24	1.5	19	e15	21	170	63	444	42	62	23	5.1	19
25	1.3	32	e14	26	1,030	52	319	36	50	11	9.3	15
26	2.1	258	e14	34	764	50	281	30	34	7.2	21	28
27	34	60	e14	31	200	49	207	27	27	6.0	9.1	73
28	13	28	e13	28	495	45	307	33	88	4.4	6.5	e34
29	5.6	20	e13	26	---	43	168	24	45	3.9	5.3	e22
30	4.0	67	e13	e22	---	38	120	20	26	5.7	4.7	e17
31	2.8	---	22	e21	---	52	---	17	---	4.9	4.3	---
<b>Total</b>	121.84	668.82	2,019	836	5,452	6,961	10,944	2,804	1,838	305.0	396.2	513.5
<b>Mean</b>	3.93	22.3	65.1	27.0	195	225	365	90.5	61.3	9.84	12.8	17.1
<b>Max</b>	34	258	936	120	1,030	1,080	1,260	445	499	23	72	73
<b>Min</b>	0.72	0.88	13	12	29	38	44	17	11	3.9	2.4	4.6
<b>Cfsm</b>	0.06	0.32	0.94	0.39	2.80	3.23	5.25	1.30	0.88	0.14	0.18	0.25
<b>In.</b>	0.07	0.36	1.08	0.45	2.92	3.73	5.86	1.50	0.98	0.16	0.21	0.27

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	26.6	43.3	82.0	140	121	158	135	93.1	68.2	24.0	24.0	76.9
<b>Max</b>	123	169	161	529	195	355	365	151	213	79.3	141	711
<b>(WY)</b>	(2007)	(2004)	(2005)	(2005)	(2011)	(2008)	(2011)	(2002)	(2010)	(2006)	(2003)	(2004)
<b>Min</b>	2.15	3.02	34.3	27.0	33.8	28.6	24.5	25.3	9.61	4.55	1.42	1.52
<b>(WY)</b>	(2009)	(2009)	(2010)	(2011)	(2002)	(2009)	(2010)	(2007)	(2007)	(2009)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2000 - 2011	
<b>Annual total</b>	21,101.60		32,859.36			
<b>Annual mean</b>	57.8		90.0		82.9	
<b>Highest annual mean</b>					178	2004
<b>Lowest annual mean</b>					45.8	2009
<b>Highest daily mean</b>	1,710	Jun 6	1,260	Apr 20	8,100	Sep 18, 2004
<b>Lowest daily mean</b>	0.20	Sep 13	0.72	Oct 17	0.00	Aug 30, 2002
<b>Annual seven-day minimum</b>	0.37	Sep 9	1.0	Oct 12	0.00	Sep 9, 2002
<b>Maximum peak flow</b>			1,520	Feb 25	10,100	Sep 18, 2004
<b>Maximum peak stage</b>			12.04	Feb 25	17.21	Sep 18, 2004
<b>Instantaneous low flow</b>			0.55	Oct 14	0.00	Sep 2, 2003
<b>Annual runoff (cfsm)</b>	0.83		1.30		1.19	
<b>Annual runoff (inches)</b>	11.29		17.59		16.21	
<b>10 percent exceeds</b>	120		217		180	
<b>50 percent exceeds</b>	16		23		30	
<b>90 percent exceeds</b>	1.3		3.5		2.1	

