

**03159540 SHADE RIVER NEAR CHESTER OH**

Upper Ohio-Little Kanawha Basin  
Upper Ohio-Shade Subbasin

LOCATION.--Lat 39°03'49", long 81°52'55" referenced to North American Datum of 1927, Meigs County, OH, Hydrologic Unit 05030202, on right bank at downstream side of bridge on Oak Hill Road, 200 ft upstream from Sugar Run, 2.8 mi southeast of Chester, and 8.5 mi northeast of Pomeroy.

DRAINAGE AREA.--156 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Water years 1956, 1962-64 (occasional low-flow measurements), June 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 576.91 NGVD 1929.

REMARKS.--Records fair except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 20	0300	2,810	16.69
Oct 27	1700	2,450	15.82
Nov 23	0900	2,940	17.28
Mar 1	1700	*3,160	*17.90
May 3	0030	2,930	17.08
May 9	0500	2,920	17.05

Minimum discharge, 0.20 ft<sup>3</sup>/s, Aug. 31, Sept. 1, gage height, 4.37 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	126	323	176	174	2,850	141	120	29	8.7	3.1	0.66
2	16	106	224	150	156	662	127	2,350	65	11	2.6	14
3	14	91	175	129	132	846	134	1,190	47	9.1	2.1	7.6
4	13	79	149	97	120	370	99	695	28	21	2.0	88
5	15	65	132	113	120	233	85	1,270	21	26	5.5	87
6	11	55	399	101	112	174	71	561	18	18	154	38
7	9.6	48	645	96	101	150	58	236	17	11	61	19
8	8.0	43	453	85	94	146	51	1,830	15	7.4	18	11
9	7.0	42	270	75	92	766	45	1,850	14	5.9	9.4	36
10	6.3	42	200	71	86	329	41	357	12	4.6	6.0	38
11	5.5	40	155	103	86	211	37	204	11	3.7	4.5	17
12	40	35	129	375	65	180	33	149	13	3.3	3.5	10
13	106	32	119	445	58	201	31	129	14	2.7	2.9	6.8
14	415	29	113	243	86	172	30	347	12	2.7	2.4	4.9
15	180	338	119	159	101	156	56	256	11	2.4	3.7	3.8
16	103	1,330	143	117	135	219	67	160	9.1	3.0	8.3	3.2
17	66	1,080	129	922	240	185	40	120	8.2	2.8	4.5	2.5
18	44	344	110	1,520	162	156	32	97	9.0	2.3	4.6	48
19	657	204	98	383	127	160	29	83	8.5	3.2	5.4	20
20	2,320	173	112	253	107	190	27	71	7.5	29	2.9	10
21	472	391	133	253	89	162	28	60	6.9	19	2.9	5.8
22	225	1,580	201	296	84	133	39	53	5.9	10	3.3	4.1
23	150	2,590	359	617	81	116	37	50	5.0	7.1	2.5	2.8
24	112	531	291	664	82	124	30	46	4.4	5.2	1.9	2.1
25	88	291	200	297	71	126	24	40	3.8	4.0	1.7	1.5
26	72	217	160	324	58	110	510	35	3.1	3.6	1.5	1.2
27	1,690	180	490	1,920	53	90	692	31	2.8	13	1.3	176
28	931	370	1,060	690	50	80	181	27	2.6	8.3	1.2	308
29	332	1,280	381	334	887	76	154	26	3.0	6.2	1.0	36
30	218	750	258	243	---	73	113	31	5.9	4.0	0.59	15
31	157	---	209	201	---	110	---	25	---	3.2	0.36	---
<b>Total</b>	8,496.4	12,482	7,939	11,452	3,809	9,556	3,042	12,499	412.7	261.4	324.65	1,017.96
<b>Mean</b>	274	416	256	369	131	308	101	403	13.8	8.43	10.5	33.9
<b>Max</b>	2,320	2,590	1,060	1,920	887	2,850	692	2,350	65	29	154	308
<b>Min</b>	5.5	29	98	71	50	73	24	25	2.6	2.3	0.36	0.66
<b>Cfsm</b>	1.76	2.67	1.64	2.37	0.84	1.98	0.65	2.58	0.09	0.05	0.07	0.22
<b>In.</b>	2.03	2.98	1.89	2.73	0.91	2.28	0.73	2.98	0.10	0.06	0.08	0.24

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2012, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	63.1	113	197	248	303	360	281	250	103	61.4	52.9	52.3
<b>Max</b>	607	529	765	755	884	1,088	868	912	488	384	406	900
<b>(WY)</b>	(2007)	(2004)	(1991)	(1994)	(1994)	(1997)	(2011)	(1968)	(1998)	(1980)	(1980)	(2004)
<b>Min</b>	0.42	0.99	20.2	24.0	40.7	53.4	48.6	27.3	2.37	2.40	0.72	0.38
<b>(WY)</b>	(1988)	(1988)	(1988)	(1977)	(1978)	(1969)	(1995)	(2007)	(1988)	(1987)	(1988)	(1987)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1965 - 2012	
<b>Annual total</b>	104,827.8		71,292.11			
<b>Annual mean</b>	287		195		174	
<b>Highest annual mean</b>					319	2004
<b>Lowest annual mean</b>					45.4	1988
<b>Highest daily mean</b>	3,230	Apr 20	2,850	Mar 1	10,300	Mar 2, 1997
<b>Lowest daily mean</b>	1.1	Aug 5	0.36	Aug 31	0.00	Sep 6, 2007
<b>Annual seven-day minimum</b>	1.5	Jul 30	0.94	Aug 26	0.00	Oct 5, 2007
<b>Maximum peak flow</b>			3,160	Mar 1	15,600	Mar 2, 1997
<b>Maximum peak stage</b>			17.90	Mar 1	31.44	Mar 2, 1997
<b>Instantaneous low flow</b>			0.20	Aug 31	0.00	Sep 5, 2007
<b>Annual runoff (cfsm)</b>	1.84		1.25		1.11	
<b>Annual runoff (inches)</b>	25.00		17.00		15.15	
<b>10 percent exceeds</b>	849		447		385	
<b>50 percent exceeds</b>	110		76		56	
<b>90 percent exceeds</b>	6.0		3.3		3.8	

