03230500 BIG DARBY CREEK AT DARBYVILLE OH

Scioto Basin
Upper Scioto Subbasin

LOCATION.--Lat 39°42′02″, long 83°06′37″ referenced to North American Datum of 1927, Pickaway County, OH, Hydrologic Unit 05060001, on right bank at upstream side of State Highway 316, 0.4 mi northeast of Darbyville, 0.4 mi upstream from Lizard Run, and 3.0 mi downstream from Greenbrier Creek.

DRAINAGE AREA.--534 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.

REVISED RECORDS.--WSP 1083: 1922(M), 1924(M), 1927(M), 1933(M), 1938(M). WSP 1305: 1928-31(M), 1934(M), 1945(M). WSP 1505: 1932(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 713.69 ft NGVD 1929. Prior to Mar. 17, 1940, nonrecording gage at same site and datum.

REMARKS.--Records fair except for periods of estimated record, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 30	1000	5,850	9.46
Dec 7	1100	*11,600	*12.45
Dec 23	0300	5,560	9.23
Jan 28	0400	6,780	10.16

Minimum discharge, 7.5 ft^3/s, Aug. 30, gage height, 1.48 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 03230500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03230500.2012.pdf

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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	159	196	3,790	1,110	825	751	418	359	148	54	33	11
2	175	168	1,690	827	688	617	377	1,490	224	62	27	20
3	147	148	1,130	667	580	772	352	2,020	347	55	21	10
4	113	135	868	570	519	873	357	911	260	47	19	8.8
5	91	124	2,030	535	506	567	455	2,760	210	54	20	9.5
6	74	113	7,970	494	496	465	371	1,440	179	48	19	9.8
7	64	105	10,700	480	475	411	330	788	158	42	17	11
8	56	98	4,380	457	443	434	307	864	141	38	15	15
9	50	95	1,810	427	418	625	296	2,160	128	34	15	16
10	46	96	1,240	416	402	630	287	1,080	120	33	34	182
11	43	93	936	411	395	497	279	662	114	32	31	135
12	45	89	746	415	373	466	265	512	118	30	27	73
13	48	86	633	461	347	536	254	439	113	27	23	47
14	57	92	632	463	348	569	259	395	104	26	21	34
15	55	821	1,280	385	351	496	312	357	95	27	22	26
16	50	1,840	3,050	369	367	515	297	317	87	25	23	20
17	48	1,020	1,560	509	479	497	283	279	84	23	20	17
18	50	637	970	1,970	501	458	258	246	96	24	17	18
19	154	475	753	1,350	433	996	245	226	98	28	15	18
20	1,090	402	666	731	393	1,320	240	214	94	32	14	16
21	1,420	400	1,940	553	370	759	261	200	83	34	12	14
22	885	846	4,520	486	367	563	275	192	77	34	11	14
23	486	2,960	4,300	888	368	476	260	196	67	33	11	13
24	314	2,490	2,460	3,150	365	618	246	209	58	30	9.9	27
25	249	1,160	1,400	2,160	342	1,660	236	187	53	42	9.0	69
26	214	786	1,020	2,210	317	1,400	270	171	48	45	8.6	56
27	223	657	949	5,870	294	801	451	157	44	46	8.3	45
28	421	1,870	1,790	6,210	284	603	406	141	40	61	8.3	33
29	396	5,070	1,470	2,610	338	524	316	137	40	51	8.1	32
30	292	5,710	963	1,360	---	444	274	138	46	39	8.0	63
31	233	---	957	994	---	426	---	133	---	34	8.1	---
Total	7,748	28,782	68,603	39,538	12,384	20,769	9,237	19,380	3,474	1,190	535.3	1,063.1
Mean	250	959	2,213	1,275	427	670	308	625	116	38.4	17.3	35.4
Max	1,420	5,710	10,700	6,210	825	1,660	455	2,760	347	62	34	182
Min	43	86	632	369	284	411	236	133	40	23	8.0	8.8
Cfsm	0.47	1.80	4.14	2.39	0.80	1.25	0.58	1.17	0.22	0.07	0.03	0.07
In.	0.54	2.01	4.78	2.75	0.86	1.45	0.64	1.35	0.24	0.08	0.04	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	125	271	510	758	774	991	840	614	473	245	148	103
Max	1,223	1,745	2,287	4,537	2,146	3,340	2,190	2,766	2,228	1,868	1,216	1,652
(WY)	(1927)	(1986)	(1991)	(2005)	(1975)	(2008)	(1957)	(1996)	(1997)	(1993)	(1980)	(1979)
Min	3.91	13.6	18.5	23.4	37.2	84.0	133	42.6	14.9	9.08	9.82	6.43
(WY)	(1964)	(1954)	(1964)	(1945)	(1934)	(1931)	(1925)	(1934)	(1934)	(1934)	(1930)	(1964)

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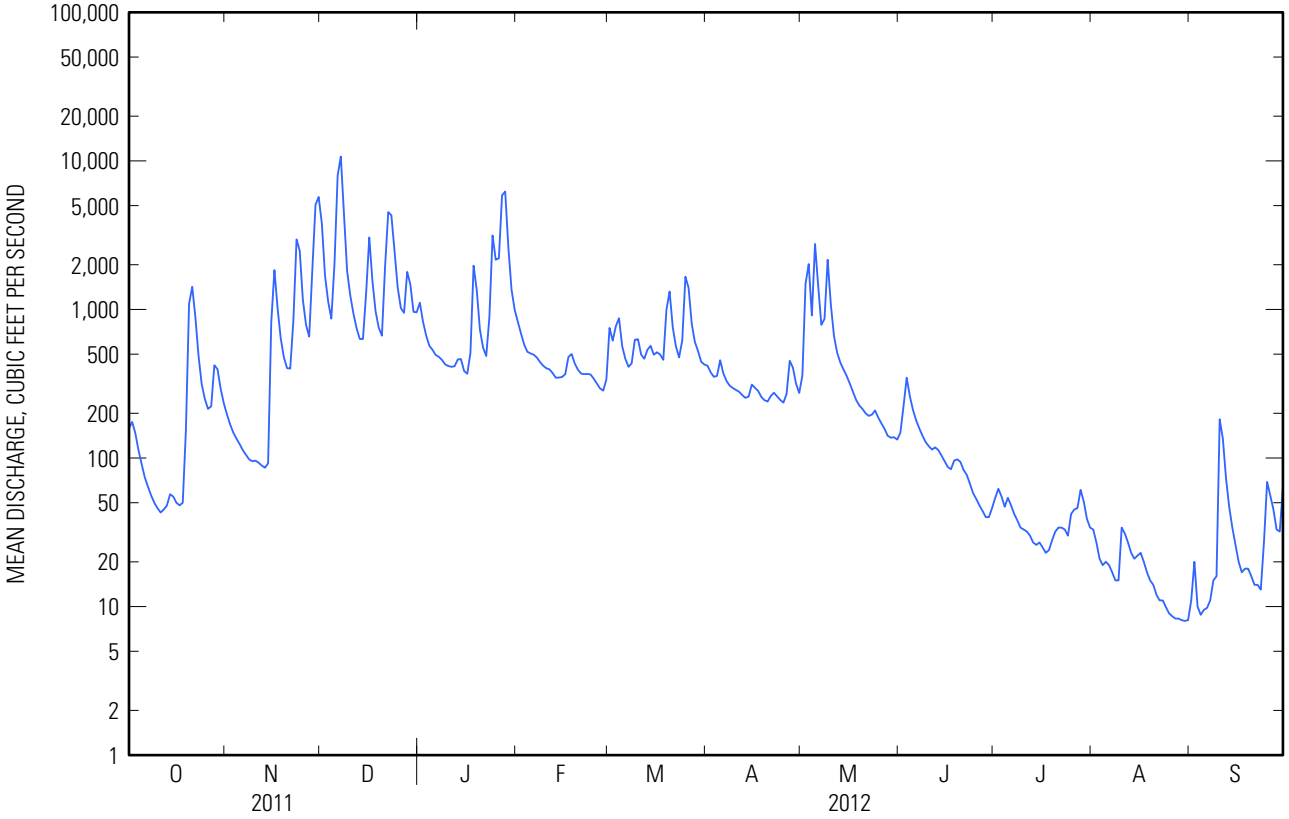
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1922 - 2012	
Annual total	368,656		212,703.4			
Annual mean	1,010		581		486	
Highest annual mean					840	1996
Lowest annual mean					79.1	1934
Highest daily mean	10,700	Dec 7	10,700	Dec 7	38,400	Jan 22, 1959
Lowest daily mean	25	Sep 3	8.0	Aug 30	1.4	Sep 17, 1932
Annual seven-day minimum	31	Aug 29	8.3	Aug 25	2.0	Oct 7, 1963
Maximum peak flow			11,600	Dec 7	49,000	Jan 22, 1959
Maximum peak stage			12.45	Dec 7	17.94	Jan 22, 1959
Instantaneous low flow			7.5	Aug 30	1.4	Sep 17, 1932
Annual runoff (cfsm)	1.89		1.09		0.91	
Annual runoff (inches)	25.68		14.82		12.37	
10 percent exceeds	3,070		1,400		1,170	
50 percent exceeds	331		272		168	
90 percent exceeds	54		20		27