01580520 DEER CREEK NEAR DARLINGTON, MD

Lower Susquehanna Basin
Lower Susquehanna Subbasin

LOCATION.--Lat 39°37'02.8", long 76°11'30.7" referenced to North American Datum of 1983, Harford County, MD, Hydrologic Unit 02050306, on right bank at Deer Creek pumping station, 1.4 miles southeast of Darlington, 0.7 miles east of Wilson Mill, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--164 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 2000 to September 2004 (operated as a low-flow partial-record station). October 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 46.99 ft above North American Vertical Datum of 1988.

REMARKS.--Records good except those above 600 ft^3/s which are fair, and those for estimated daily discharges (ice effect, erroneous record) which are poor. U.S. Geological Survey satellite data-collection platform at station. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 30	0115	*6,180	*8.75
Jan 31	1000	5,160	7.97
Jun 11	0000	3,480	6.48

Minimum discharge, 73 ft^3/s, Oct. 2.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01580520, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01580520.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	77	455	129	204	609	239	224	204	e145	240	213	112
2	299	343	128	196	423	225	209	185	e142	233	209	110
3	414	285	128	184	359	216	201	178	e145	205	153	106
4	155	249	126	178	316	209	196	173	e141	192	143	100
5	116	219	124	174	284	203	199	169	139	174	136	97
6	101	198	121	171	269	244	193	168	135	162	170	95
7	93	188	121	169	249	311	190	186	646	153	163	93
8	91	181	131	163	249	249	190	217	441	154	369	94
9	88	171	134	160	265	226	188	186	232	153	361	92
10	88	164	160	157	232	216	185	180	758	151	243	91
11	84	158	147	157	273	212	191	461	991	162	176	90
12	78	153	133	186	274	769	250	327	333	396	157	88
13	76	192	127	170	240	522	272	216	532	515	918	105
14	76	217	124	163	255	331	202	195	394	236	382	101
15	94	168	123	226	243	289	190	191	273	182	218	87
16	116	157	123	688	256	273	187	188	239	163	184	88
17	88	150	129	379	241	266	186	180	237	150	162	89
18	80	145	142	263	217	259	185	170	316	143	150	85
19	175	143	136	229	223	353	206	173	284	138	148	84
20	378	141	125	220	238	282	590	175	211	134	144	83
21	140	139	1,110	209	213	252	287	174	194	132	135	87
22	114	136	359	194	204	239	237	169	185	142	131	184
23	105	134	239	e142	212	230	221	186	180	488	131	124
24	100	132	209	e164	221	225	213	307	179	201	129	96
25	95	128	205	e158	207	256	204	195	171	160	121	91
26	94	127	299	e159	202	295	192	170	169	148	118	88
27	94	145	616	e159	384	270	186	161	171	139	116	87
28	95	168	313	e157	282	239	182	162	231	139	132	86
29	2,340	140	254	e166	---	227	216	168	314	275	128	85
30	3,590	132	237	260	---	219	236	156	188	165	120	84
31	717	---	214	2,640	---	218	---	149	---	138	115	---
Total	10,251	5,458	6,666	8,845	7,640	8,564	6,608	6,119	8,716	6,163	6,175	2,902
Mean	331	182	215	285	273	276	220	197	291	199	199	96.7
Max	3,590	455	1,110	2,640	609	769	590	461	991	515	918	184
Min	76	127	121	142	202	203	182	149	135	132	115	83
Cfsm	2.02	1.11	1.31	1.74	1.66	1.68	1.34	1.20	1.77	1.21	1.21	0.59
In.	2.33	1.24	1.51	2.01	1.73	1.94	1.50	1.39	1.98	1.40	1.40	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	228	217	278	254	259	306	296	232	238	159	126	182
Max	393	383	524	371	325	501	467	301	554	261	199	598
(WY)	(2006)	(2007)	(2010)	(2010)	(2010)	(2010)	(2005)	(2011)	(2006)	(2005)	(2013)	(2011)
Min	99.6	92.6	177	120	124	112	187	184	159	107	75.9	55.6
(WY)	(2009)	(2008)	(2008)	(2011)	(2009)	(2009)	(2012)	(2012)	(2010)	(2012)	(2008)	(2007)

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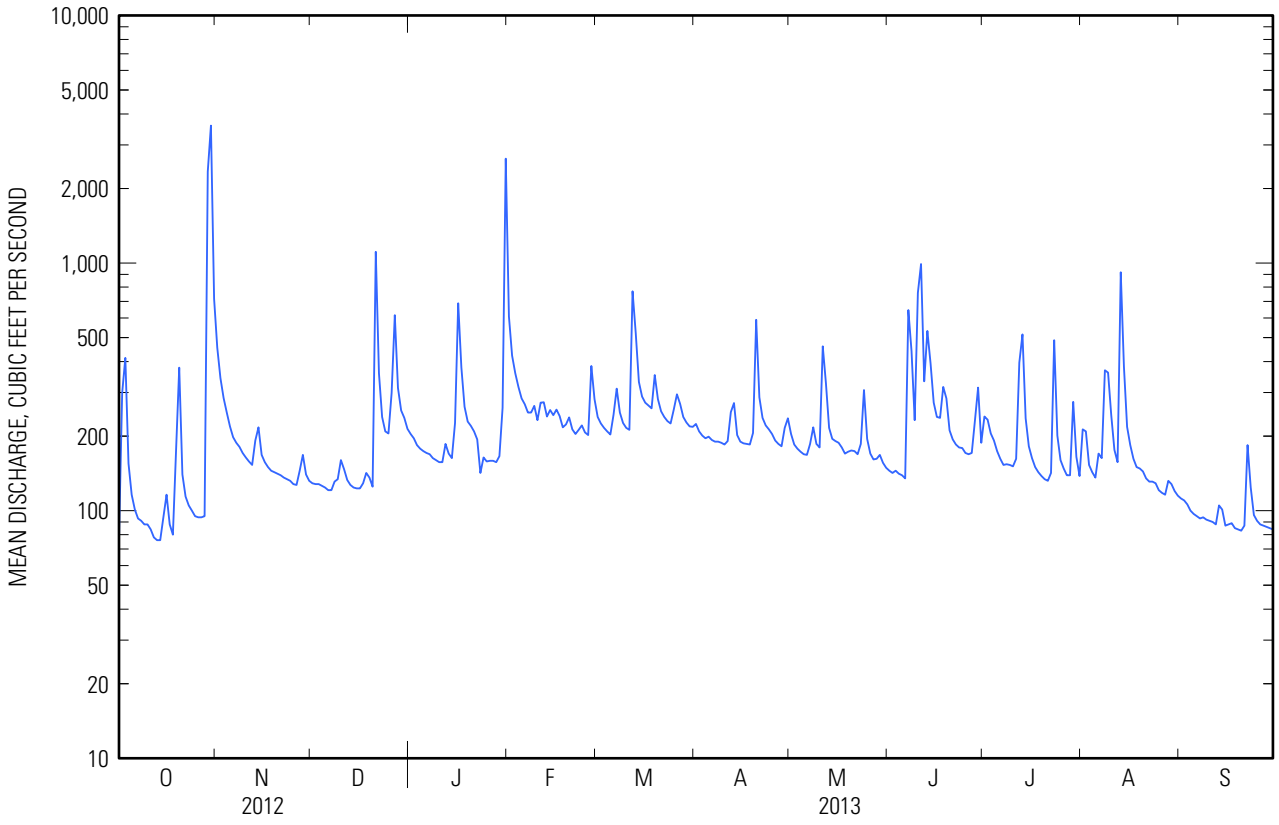
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2005 - 2013	
Annual total	70,717		84,107			
Annual mean	193		230		231	
Highest annual mean					286	2010
Lowest annual mean					163	2009
Highest daily mean	3,590	Oct 30	3,590	Oct 30	[e]6,200	Oct 8, 2005
Lowest daily mean	58	Sep 17	76	Oct 13[a]	45	Sep 27, 2007[b]
Annual seven-day minimum	63	Sep 11	83	Oct 8	46	Sep 30, 2007
Maximum peak flow			6,180	Oct 30	[c]11,600	Jun 28, 2006
Maximum peak stage			8.75	Oct 30	12.32	Jun 28, 2006
Instantaneous low flow			73	Oct 2	44	Sep 25, 2007[d]
Annual runoff (cfsm)	1.18		1.41		1.41	
Annual runoff (inches)	16.04		19.08		19.13	
10 percent exceeds	281		332		366	
50 percent exceeds	158		182		182	
90 percent exceeds	77		96		87	

[e] Estimated.
[a] Oct. 13, 14.
[b] Sept. 27, Oct. 1, 2, 9, 2007.
[c] From rating curve extended above 4,500 ft³/s on basis of slope-area measurement at gage height 11.86 ft.
[d] Sept. 25, 27, Oct. 9, 2007.