Water-Data Report 2013

01599000 GEORGES CREEK AT FRANKLIN, MD

Potomac Basin
North Branch Potomac Subbasin

LOCATION.--Lat 39°29'38.1", long 79°02'40.9" referenced to North American Datum of 1983, Allegany County, MD, Hydrologic Unit 02070002, on right bank at Franklin, and 1.2 mi upstream from Westernport and mouth.

DRAINAGE AREA.--72.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1905 to July 1906 (published as "at Westernport"), October 1929 to current year.

REVISED RECORDS.--WSP 726: Drainage area. WSP 1502: 1940. WDR MD-DE-86-1: 1984(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 958.18 ft above North American Vertical Datum of 1988. May 4, 1905, to July 15, 1906, nonrecording gage at bridge 0.8 mi downstream at different gage datum. Oct. 16, 1929, to Oct. 1, 1937, water-stage recorder at site 95 ft downstream at present gage datum.

REMARKS.--Records good except those for estimated daily discharges (lagging intakes and ice effect), which are poor. Records include about 0.5 ft^3/s of sewage from city of Frostburg, which obtains its water supply from Big Piney Run (Monongahela River basin) and Savage River. A negligible discharge is diverted upstream from station by Frostburg Water Co. for municipal supplies of Eckhart and Welsh Hill. An undetermined amount of water is diverted from the upper third of basin into the Wills Creek basin by the Hoffman drainage tunnel (see station 01601500). U.S. Geological Survey satellite data-collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1924, reached a stage of about 10 ft, from floodmarks, at site 95 ft downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 29	2345	*2,680	*8.64
May 8	0145	2,280	8.03

Minimum discharge, 8.2 ft^3/s, Sept. 30.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01599000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01599000.2013.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	12	191	24	70	298	99	251	90	35	26	12	19
2	18	155	23	67	219	88	235	82	33	25	12	18
3	17	117	24	60	184	82	198	78	32	22	12	16
4	14	97	24	59	153	76	168	75	30	19	12	15
5	12	85	23	56	140	72	154	71	28	23	11	14
6	11	75	22	57	123	81	146	68	53	48	10	13
7	11	68	21	56	107	75	138	216	64	74	13	12
8	12	60	23	53	103	69	138	1,160	46	92	25	12
9	13	53	35	63	96	72	134	533	34	49	29	11
10	12	e53	83	111	85	101	124	400	55	61	34	11
11	11	e77	89	137	124	158	114	485	57	44	19	11
12	10	112	73	301	162	312	491	365	38	41	15	51
13	9.7	126	64	415	132	260	302	276	73	35	141	23
14	9.8	96	57	367	121	207	235	221	59	30	42	18
15	10	79	53	310	112	168	188	180	39	25	25	14
16	11	70	50	443	104	155	161	165	33	22	20	13
17	10	61	48	354	95	139	193	137	32	20	17	12
18	10	53	60	258	85	135	146	116	30	18	23	11
19	14	47	61	202	89	154	163	106	30	17	20	10
20	12	43	65	e168	83	154	181	98	27	16	17	10
21	11	40	341	e138	71	134	137	90	25	17	37	11
22	10	36	172	e115	68	117	127	85	23	17	64	15
23	9.7	33	132	e96	67	111	119	93	22	21	78	12
24	9.6	31	114	e84	66	114	115	74	21	19	60	10
25	9.4	29	102	e73	60	118	111	65	20	17	32	9.7
26	9.3	28	100	e71	68	112	95	58	19	15	26	9.2
27	9.2	28	93	e70	120	113	87	53	28	14	22	8.7
28	9.4	30	81	e70	127	106	97	51	35	16	47	8.6
29	680	27	81	e132	---	109	109	47	26	13	40	8.6
30	981	25	75	175	---	132	99	42	21	12	28	8.6
31	288	---	70	568	---	188	---	38	---	12	22	---
Total	2,266.1	2,025	2,283	5,199	3,262	4,011	4,956	5,618	1,068	880	965	415.4
Mean	73.1	67.5	73.6	168	116	129	165	181	35.6	28.4	31.1	13.8
Max	981	191	341	568	298	312	491	1,160	73	92	141	51
Min	9.2	25	21	53	60	69	87	38	19	12	10	8.6
Cfsm	1.01	0.93	1.02	2.32	1.61	1.79	2.28	2.50	0.49	0.39	0.43	0.19
In.	1.16	1.04	1.17	2.67	1.68	2.06	2.55	2.89	0.55	0.45	0.50	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 – 1906, 1930 – 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.3	45.6	77.1	95.8	122	208	171	126	61.1	30.1	23.5	27.7
Max	270	355	314	371	355	682	420	351	288	185	120	277
(WY)	(1943)	(1986)	(1973)	(1937)	(1998)	(1936)	(1993)	(2011)	(2003)	(1989)	(1955)	(1996)
Min	1.78	3.40	3.42	10.9	8.77	43.2	40.0	27.7	12.5	5.19	3.97	2.65
(WY)	(1931)	(1931)	(1944)	(1940)	(1954)	(1990)	(1954)	(1934)	(1969)	(1930)	(1930)	(1932)

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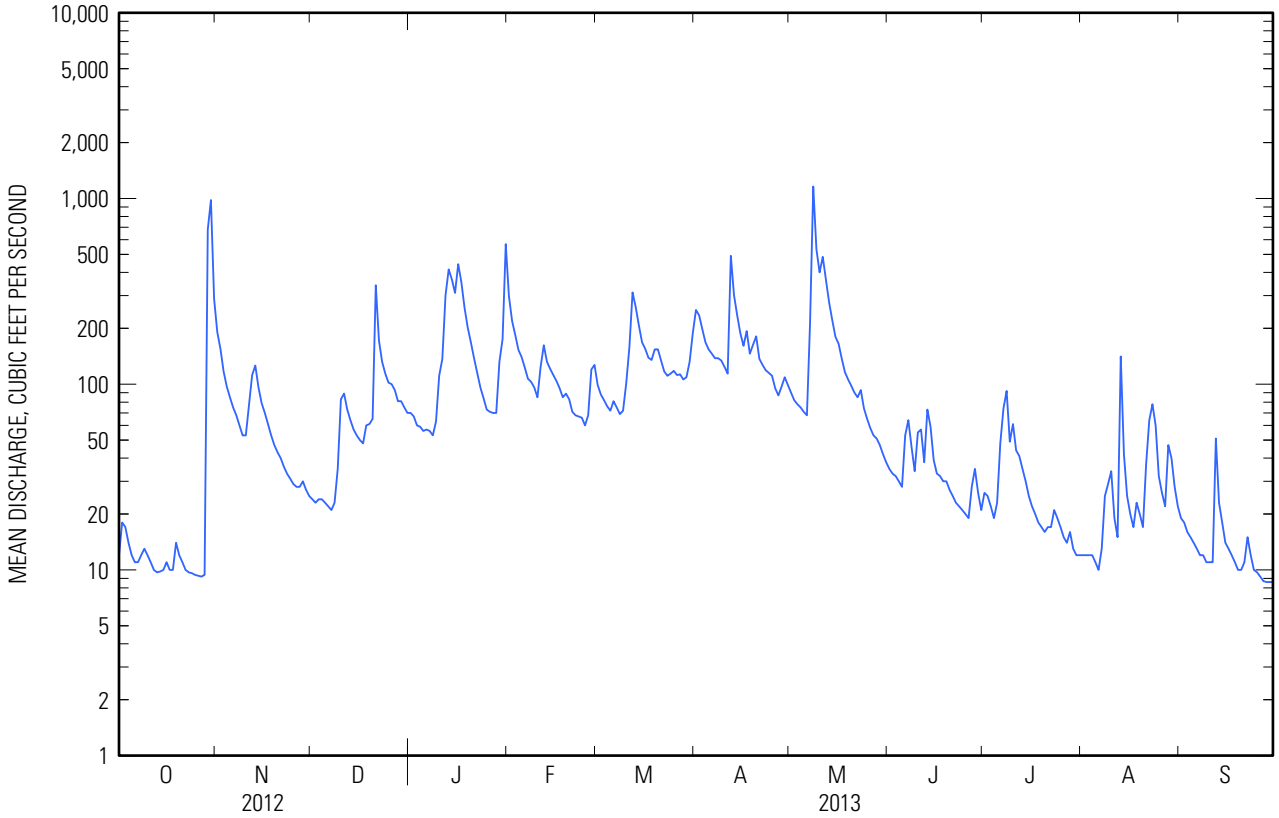
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1905 – 1906, 1930 – 2013	
Annual total	24,645.9		32,948.5			
Annual mean	67.3		90.3		84.2	
Highest annual mean					151	2003
Lowest annual mean					30.7	1969
Highest daily mean	981	Oct 30	1,160	May 8	4,130	Mar 17, 1936
Lowest daily mean	5.9	Sep 16	8.6	Sep 28[a]	1.6	Sep 29, 1930[b]
Annual seven-day minimum	6.4	Sep 11	9.1	Sep 24	1.6	Sep 29, 1930
Maximum peak flow			2,680	Oct 29	[c]8,500	Mar 17, 1936
Maximum peak stage			8.64	Oct 29	[d]9.60	Mar 17, 1936
Instantaneous low flow			8.2	Sep 30	1.6	Sep 29, 1930[f]
Annual runoff (cfsm)	0.930		1.25		1.16	
Annual runoff (inches)	12.66		16.93		15.80	
10 percent exceeds	141		186		201	
50 percent exceeds	42		60		39	
90 percent exceeds	9.9		12		7.4	

[a] Sept. 28-30.
[b] Sept. 29, 30, 1930.
[c] From rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow.
[d] At site then in use.
[f] Sept. 29 to Oct. 13, 1930.