

**01542790 BENNETT BRANCH SINNEMAHONING CREEK AT DRIFTWOOD, PA**

West Branch Susquehanna Basin  
Sinnemahoning Subbasin

LOCATION.--Lat 41°20'02", long 78°08'10" referenced to North American Datum of 1927, Cameron County, PA, Hydrologic Unit 02050202, at bridge on Township Route 343 at Driftwood and 1,000 ft upstream from mouth.

DRAINAGE AREA.--365 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--1975 to current year.

GAGE.--Non-recording gage. Datum of gage is 789.66 ft above National Geodetic Vertical Datum of 1929.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Oct 17, 2012	26.2
Nov 29, 2012	75.8
Mar 11, 2013	499
May 22, 2013	247
Jul 31, 2013	109

## 01542790 BENNETT BRANCH SINNEMAHONING CREEK AT DRIFTWOOD, PA—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

COOPERATION.--Water-quality samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection. Occasionally, values for filtered parameters may exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods.

REMARKS.--Analysis for pH, water temperature, specific conductance, and dissolved oxygen is performed on site. All other sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 1 of 4

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Osmotic pressure, water, unfiltered, milliosmoles per kilogram (82550)	pH, water, field, standard units (00400)	pH, water, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
11-29-2012	0930	76	13.7	< 1.0	7.0	7.0	199	198	0.7	140
01-17-2013	1100	1,520	10.1	2.0	8.4	6.7	81	85	3.6	58
03-06-2013	0900	274	12.3	3.0	7.2	6.9	155	162	2.2	106
05-23-2013	0920	200	7.1	3.0	6.7	7.2	133	132	20.0	80
07-10-2013	1315	395	7.4	3.0	6.9	7.2	122	126	20.3	110
09-19-2013	0900	34	10.3	4.0	7.4	7.4	242	231	14.6	224

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 2 of 4

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Sodium, water, unfiltered, recoverable, mg/L (00929)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO <sub>3</sub> (00417)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)
11-29-2012	0930	69	< 5	16.8	6.6	5.5	7	M	6.7	68.4
01-17-2013	1100	28	< 5	7.1	2.4	2.0	4	< 0.025	2.7	24.0
03-06-2013	0900	51	< 5	13.3	4.3	3.8	6	< 0.025	6.1	49.6
05-23-2013	0920	46	< 5	12.0	4.0	3.0	7	< 0.025	3.9	41.9
07-10-2013	1315	43	< 5	10.5	4.0	2.7	7	< 0.025	3.4	40.4
09-19-2013	0900	87	< 5	22.0	7.8	5.8	13	M	7.3	81.2

## 01542790 BENNETT BRANCH SINNEMAHONING CREEK AT DRIFTWOOD, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 3 of 4

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate, water, unfiltered, mg/L as N (00620)	Nitrite, water, unfiltered, mg/L as N (00615)	Orthophosphate, water, unfiltered, mg/L as P (70507)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Barium, water, unfiltered, recoverable, µg/L (01007)	Copper, water, unfiltered, recoverable, µg/L (01042)
11-29-2012	0930	0.020	0.12	< .040	< .01	< .010	< .25	< 200	M	< 4
01-17-2013	1100	< .020	.14	< .040	< .01	< .010	< .25	200	M	< 4
03-06-2013	0900	< .020	.14	< .040	< .01	< .010	< .25	300	M	< 4
05-23-2013	0920	< .020	< .04	< .040	< .01	< .010	< .25	< 200	M	< 4
07-10-2013	1315	< .020	.08	< .040	< .01	< .010	< .25	< 200	M	< 4
09-19-2013	0900	< .020	< .04	< .040	< .01	< .010	< .25	< 200	M	< 4

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 4 of 4

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Date	Sample start time	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Nickel, water, unfiltered, recoverable, µg/L (01067)	Strontium, water, unfiltered, recoverable, micrograms per liter (01082)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Boron, water, unfiltered, recoverable, micrograms per liter (01022)	Selenium, water, unfiltered, µg/L (01147)
11-29-2012	0930	80	< 1.0	160	< 50	120	< 10	< 200	< 7
01-17-2013	1100	240	< 1.0	100	< 50	40	< 10	< 200	< 7
03-06-2013	0900	310	< 1.0	220	< 50	80	20	< 200	< 7
05-23-2013	0920	50	< 1.0	30	< 50	80	< 10	< 200	< 7
07-10-2013	1315	140	< 1.0	110	< 50	70	< 10	< 200	< 7
09-19-2013	0900	40	< 1.0	10	< 50	140	< 10	< 200	< 7