

**ATTACHMENT 2**  
**APPLICATION FEE & WORKSHEET**

## CHAPTER 105 FEE(S) CALCULATION WORKSHEET

Additional information can be found at [25 PA Code §105.13](#) (relating to regulated activities – information and fees), the General Permit Registration ([3150-PM-BWEW0500](#)), the Joint Permit Application ([3150-PM-BWEW0036](#)) and the Dam Permit Application ([3140-PM-BWEW0001](#))

Federal, State, county or municipal agencies or municipal authorities:

EXEMPT from fees

These entities are exempt from these fees. If the applicant falls into one of these categories, please check the box above and provide only the first page of this worksheet with the project application or registration.

### ALL OTHERS:

1. Please place an "X" in the box next to all authorizations that apply to the project and complete the fee information below those authorization(s). Projects may require multiple authorizations and fees, further clarification and examples are included below and at the end of this document.
2. Total each authorization, Section, and Part. Part One is for Water Obstructions and Encroachment authorizations, Part Two is for Dam Safety authorizations.
3. Please provide this completed worksheet (page 1 and page 2 and/or page 3, as is appropriate to the project) and a check for the applicable fee(s) with the project application or registration. The check should be made payable to the "**Commonwealth of Pennsylvania Clean Water Fund**" OR "**\_\_\_\_\_ Conservation District Clean Water Fund**", whichever is the reviewing entity.

### NOTES:

Per 25 PA Code §105.13(c)(2)(iii) Disturbance review fees are calculated by individually adding all of the permanent and temporary impacts to waterways, floodways, floodplains and bodies of water including wetlands to the next highest tenth acre and multiplying the permanent and temporary impacts by the respective fees and then these amounts are added to the other applicable fees.

Entities proposing structures or activities to occupy a Submerged Lands of the Commonwealth must obtain a Submerged Lands License Agreement (SLLA) and pay the appropriate annual charge. The applicant will be contacted if this charge applies to the project.

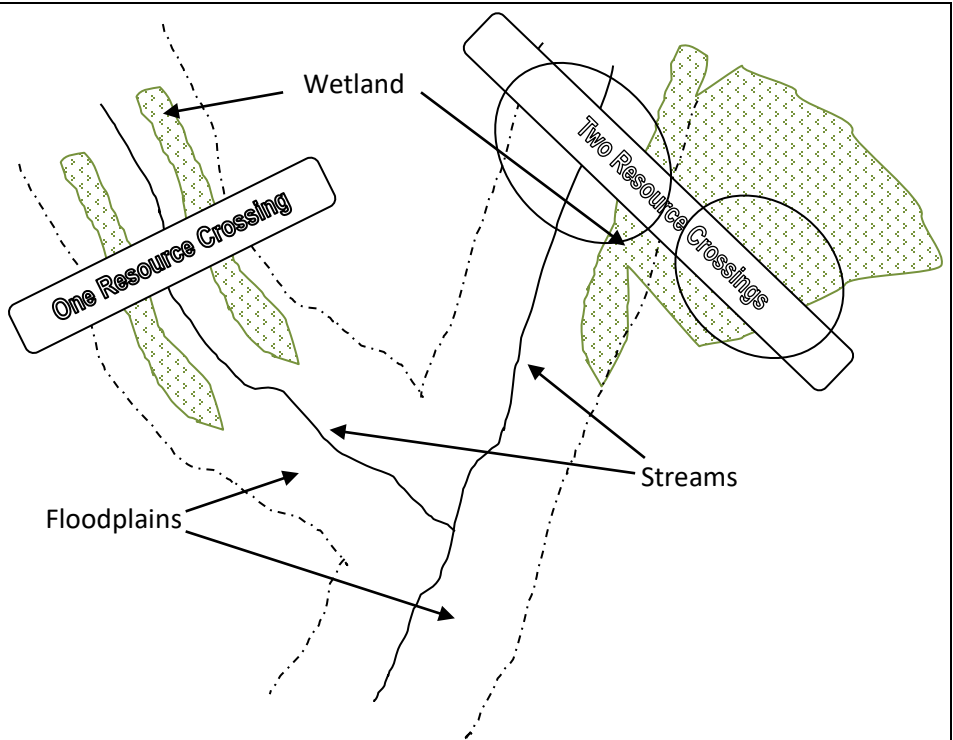
**Floodway** – The channel of the watercourse and portions of the adjoining floodplains which are reasonably required to carry and discharge the 100-year frequency flood. Unless otherwise specified, the boundary of the floodway is as indicated on maps and flood insurance studies provided by FEMA. In an area where no FEMA maps or studies have defined the boundary of the 100-year frequency floodway, it is assumed, absent evidence to the contrary, that the floodway extends from the stream to 50 feet from the top of the bank of the stream.

### Wetland and Stream Clarification:

<sup>1</sup> In many instances, wetlands are located within the floodplain of a stream. These resources for the purposes of calculating disturbance fees are considered co-located or overlapping and the area of disturbance would only be used once.

<sup>2</sup> In the case of GP-5, GP-7 and GP-8 fees are charged per structure per resource crossing and the following also applies to the disturbance fees:

- A crossing of the stream and the floodplain with wetlands present within the floodplain is considered one resource crossing.
- When the crossing traverses a stream and the floodplain and a wetland that is located outside of the floodplain or a wetland that extends out beyond the floodplain, it is considered two resource crossings.



**PART ONE: WATER OBSTRUCTIONS AND ENCROACHMENTS**

**SECTION A. APPLICATION FEES**

**WATER OBSTRUCTION AND ENCROACHMENT PERMIT** (Joint Permit Application)

Some activities or structures within a project may also qualify for an accumulation of General Permit fees, please mark the box above indicating an Individual Water Obstruction and Encroachment Permit AND the corresponding fee(s) in the General Permit section below those. Activities or structures not qualifying for a General Permit fee must include a disturbance fee.

<input checked="" type="checkbox"/> Administrative Filing Fee <sup>1</sup> .....		\$ 1,750	+	
<input checked="" type="checkbox"/> Temporary Disturbance (\$400/0.1ac) .....	4.4 acres x \$4,000 =	\$ 17,600	+	
<input checked="" type="checkbox"/> Permanent Disturbance (\$800/0.1ac) .....	0.1 acres x \$8,000 =	\$ 800		= \$ 20,150

**WO&E FEE subtotal (a)                    \$ 20,150**

**GENERAL PERMIT(S)** (select activity/structure(s) below, see page 4 for “#” explanation)

Some activities or structures within a project requiring an Individual Water Obstruction and Encroachment Permit may qualify for an accumulation of General Permit fees, please mark the corresponding fee(s) below but not the box above indicating a General Permit.

<input type="checkbox"/> GP-1 Fish Habitat Enhancement Structures.....		\$ 50	= \$	_____
<input type="checkbox"/> GP-2 Small Docks and Boat Launching Ramps.....	_____ (#) X	\$ 175	= \$	_____
<input type="checkbox"/> GP-3 Bank Rehabilitation, Bank Protection and Gravel Bar Removal .....	_____ (#) X	\$ 250	= \$	_____
<input type="checkbox"/> GP-4 Intake and Outfall Structures .....	_____ (#) X	\$ 200	= \$	_____
<input type="checkbox"/> GP-5 Utility Line Stream Crossings <sup>2</sup> .....	_____ (#) X _____ (#) X	\$ 250	= \$	_____
<input type="checkbox"/> GP-6 Agricultural Crossings and Ramps .....	_____ (#) X	\$ 50	= \$	_____
<input type="checkbox"/> GP-7 Minor Road Crossings <sup>2</sup> .....	_____ (#) X	\$ 350	= \$	_____
<input type="checkbox"/> GP-8 Temporary Road Crossings <sup>2</sup> .....	_____ (#) X	\$ 175	= \$	_____
<input type="checkbox"/> GP-9 Agricultural Activities.....		\$ 50	= \$	_____
<input type="checkbox"/> GP-10 Abandoned Mine Reclamation .....		\$ 500	= \$	_____
<input type="checkbox"/> GP-11 Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments <sup>1</sup> .....		\$ 750	+	
<input type="checkbox"/> Temporary Disturbance (\$400/0.1ac) .....	_____ acres x \$4,000 =	\$ _____	+	
<input type="checkbox"/> Permanent Disturbance (\$800/0.1ac) .....	_____ acres x \$8,000 =	\$ _____		= \$ _____
<input type="checkbox"/> GP-15 Private Residential Construction in Wetlands <sup>1</sup> .....		\$ 750	+	
<input type="checkbox"/> Temporary Disturbance (\$400/0.1ac) .....	_____ acres x \$4,000 =	\$ _____	+	
<input type="checkbox"/> Permanent Disturbance (\$800/0.1ac) .....	_____ acres x \$8,000 =	\$ _____		= \$ _____

**GP(s) FEE subtotal (b)                    \$ 0**

**PART ONE: SECTION A. APPLICATION FEE(S) subtotal (a+b=c)                    \$ 20,150**

**SECTION B. OTHER FEES**

<input type="checkbox"/> Environmental Assessment for Waived Activities (§105.13(c)(2)(iv)).....		\$ 500		\$ _____
<input type="checkbox"/> Amendment to Water Obstruction and Encroachment Permit				
<input type="checkbox"/> Major Amendment <sup>1</sup> .....		\$ 500	+	
<input type="checkbox"/> Temporary Disturbance.....	_____ acres x \$4,000 =	\$ _____	+	\$ _____
<input type="checkbox"/> Permanent Disturbance.....	_____ acres x \$8,000 =	\$ _____		= \$ _____
<input type="checkbox"/> Minor Amendment.....		\$ 250		\$ _____

Transfer of Water Obstruction and Encroachment Permit *does not require submission of this form;*  
see [Application for Transfer of Permit / Submerged Lands License Agreement \(3150-PM-BWEW-0016\)](#)

**PART ONE: SECTION B. OTHER FEE(S) subtotal (d)                    \$ 0**

**PART ONE: FEE(S) TOTAL (c+d=e)                    \$ 20,150**

**DEP USE ONLY**

FEE TOTAL: _____	Permit / Authorization Number (s): _____
Correct Amount: _____	Check #: _____
Check Amount: _____	Payable to: _____

**Aquatic Resource Areas Crossed by the Project Facilities, Potter County**

Grouped Resource Crossing Number	Resource Crossing	Feature Classification	PADEP Permanent Impacts <sup>b</sup>		PADEP Temporary Impacts <sup>c</sup> (acres)
			Operations and Maintenance (acres)	Fill (acres)	
<b>Replacement Pipeline (Z20 Pipeline)</b>					
1	W01z, S73z <sup>a</sup>	PEM, S73z Waived	0.00	0.00	0.027
2	W01, S01, S02	PSS, Perennial, Perennial, Floodways	0.00	0.00	0.477
3	W02, S03, S04, S05 <sup>a</sup>	PEM/PSS, Perennial, Perennial, Floodways, Waived	0.00	0.00	1.230
4	W03	PEM/PFO	0.00	0.00	0.170
5	W04, S06 <sup>a</sup> , S07 <sup>a</sup> , S08 <sup>a</sup>	PEM/PFO, Waived	0.00	0.00	0.389
6	W05, S09 <sup>a</sup> , S10 <sup>a</sup>	PEM, Waived	0.00	0.00	0.114
7	W06, S11, S12, S13	PEM/PSS, Perennial, Perennial, Perennial, Floodways	0.00	0.00	0.999
8	W07, S14	PEM/PFO, Perennial, Floodway	0.00	0.00	0.210
9	S15 <sup>a</sup>	Waived	0.00	0.00	0.00
10	W08, S16	PEM, Perennial, Floodway	0.00	0.00	0.282
<b>Total Replacement Pipeline (Line Z20)</b>			<b>0.00</b>	<b>0.00</b>	<b>3.898</b>
<b>Mainline Pipeline (YM59 Pipeline)</b>					
11	S17	Perennial, Floodway	0.027	0.00	0.181
12	S18a	Perennial, Floodway	0.030	0.00	0.201
13	W10	PFO	0.030	0.00	0.044
<b>Total Mainline Pipeline (YM59 Pipeline)</b>			<b>0.087</b>	<b>0.00</b>	<b>0.426</b>
<b>Aboveground Facilities</b>					
14	W45, W46, S55	PEM, PEM, Perennial, Floodway - AVOIDED	0.00	0.00	0.00
15	W47	PEM - AVOIDED	0.00	0.00	0.00
<b>Total Aboveground Facilities</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Potter County Totals</b>			<b>0.087</b>	<b>0.00</b>	<b>4.324</b>
<p>Notes:</p> <p>Due to rounding, the totals may not reflect the sum of the totals. Also, resources were grouped together when their boundaries (wetland, stream, and floodway) overlapped to avoid double-counting resource impacts.</p> <p>a Per Chapter 105.12(a)(2), stream is considered waived as its' drainage area is less than 100 acres (see attached drainage calculations); therefore, the acreage of the waterbody and floodway is not included in fee calculations.</p> <p>b Per DEP, "Permanent Impacts are those areas affected by a water obstruction or encroachment that consist of both direct and indirect impacts that result from the placement or construction of a water obstruction or encroachment and include areas necessary for the operation and maintenance of the water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water." Accordingly, these values represent the acreage of wetland cover type that will be converted from PFO or PSS to a lower successional cover type (e.g., PSS or PEM) because of vegetation maintenance procedures within the 30-foot-wide portion of the permanent ROW that will undergo routine vegetation maintenance. Specifically, in accordance with the FERC Procedures, National Fuel will not conduct routine vegetation mowing or clearing over the full width of the permanent ROW. However, to facilitate periodic</p>					

Grouped Resource Crossing Number	Resource Crossing	Feature Classification	PADEP Permanent Impacts <sup>b</sup>		PADEP Temporary Impacts <sup>c</sup> (acres)
			Operations and Maintenance (acres)	Fill (acres)	

corrosion/leak surveys, a corridor centered on the pipeline and up to 10 feet wide may be cleared through all wetlands (PEM, PSS, PFO) at a frequency necessary to maintain the 10-foot corridor in an herbaceous state. In addition, PFO trees within 15 feet of the pipeline with roots that could compromise the integrity of pipeline coating may be selectively cut and removed from the permanent ROW.

All streams and floodways will be restored to pre-existing conditions and there will be no long-term impact to the substrate, banks, flow, aquatic/terrestrial life, or floodway. However, National Fuel will maintain a 10 feet wide corridor centered over the pipeline in an herbaceous state and has conservatively identified stream and floodway impacts within this corridor as permanent.

C Per DEP, "Temporary Impacts are those areas affected during the construction of a water obstruction or encroachment that consists of both direct and indirect impacts located in, along or across, or projecting into a watercourse, floodway or body of water that are restored upon completion of construction. This does not include areas that will be maintained as a result of the operation and maintenance of the water obstruction or encroachment located in, along or across, or projecting into a watercourse, floodway or body of water (these are considered permanent impacts)." Accordingly, these values reflect the entire 75-foot-wide limit of disturbance through regulated stream and floodway resources minus the maintained areas described in the permanent impacts. Note: all stream/floodway impacts associated with the Z20 replacement pipeline are considered temporary as they will occur within an existing pipeline ROW.

# S05 - StreamStats Report

Region ID: PA  
Workspace ID: PA20240906200619159000  
Clicked Point (Latitude, Longitude): 41.96807, -77.70350  
Time: 2024-09-06 16:06:39 -0400



S05 drainage area is approximately 0.0705 sq miles (45.12 acres) S05 is not mapped on Stream Stats. Drainage area was estimated by subtracting from larger basin.

[+ Collapse All](#)

## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0705	square miles
FOREST	Percentage of area covered by forest	73.9846	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent

## General Disclaimers

This watershed has been edited, computed flows and basin characteristics may not apply. For more information, submit a support request from the 'Help' button in the upper-right of the screen, attach a pdf of this report and request assistance from your local StreamStats regional representative.

## ➤ General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0705	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	73.9846	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.0095	ft <sup>3</sup> /s

#### *General Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.23.0

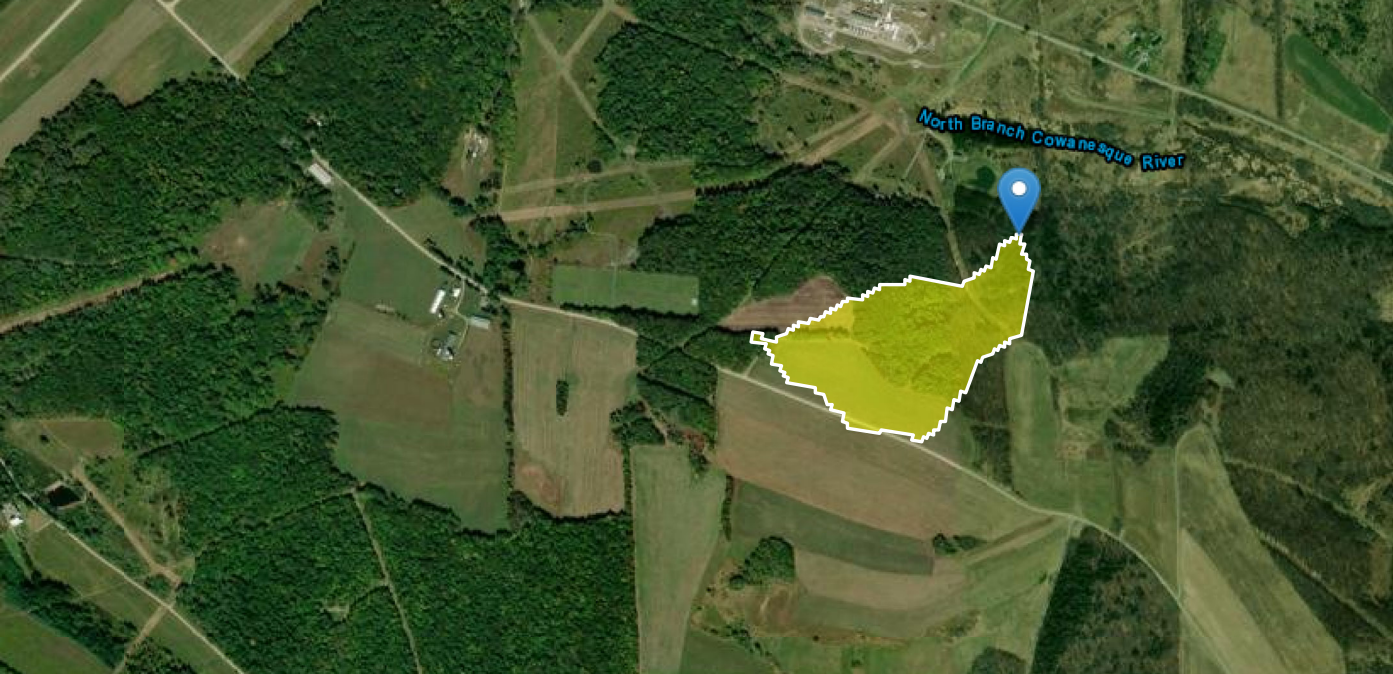
StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1



# S06 - StreamStats Report

**Region ID:** PA  
**Workspace ID:** PA20240906204029121000  
**Clicked Point (Latitude, Longitude):** 41.97523, -77.68353  
**Time:** 2024-09-06 16:40:52 -0400



S06 drainage area is approximately 0.0478 sq miles (30.59 acres)

[+ Collapse All](#)

**> Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0478	square miles
FOREST	Percentage of area covered by forest	49.5561	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent



## ➤ General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0478	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	49.5561	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.00549	ft <sup>3</sup> /s

#### *General Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

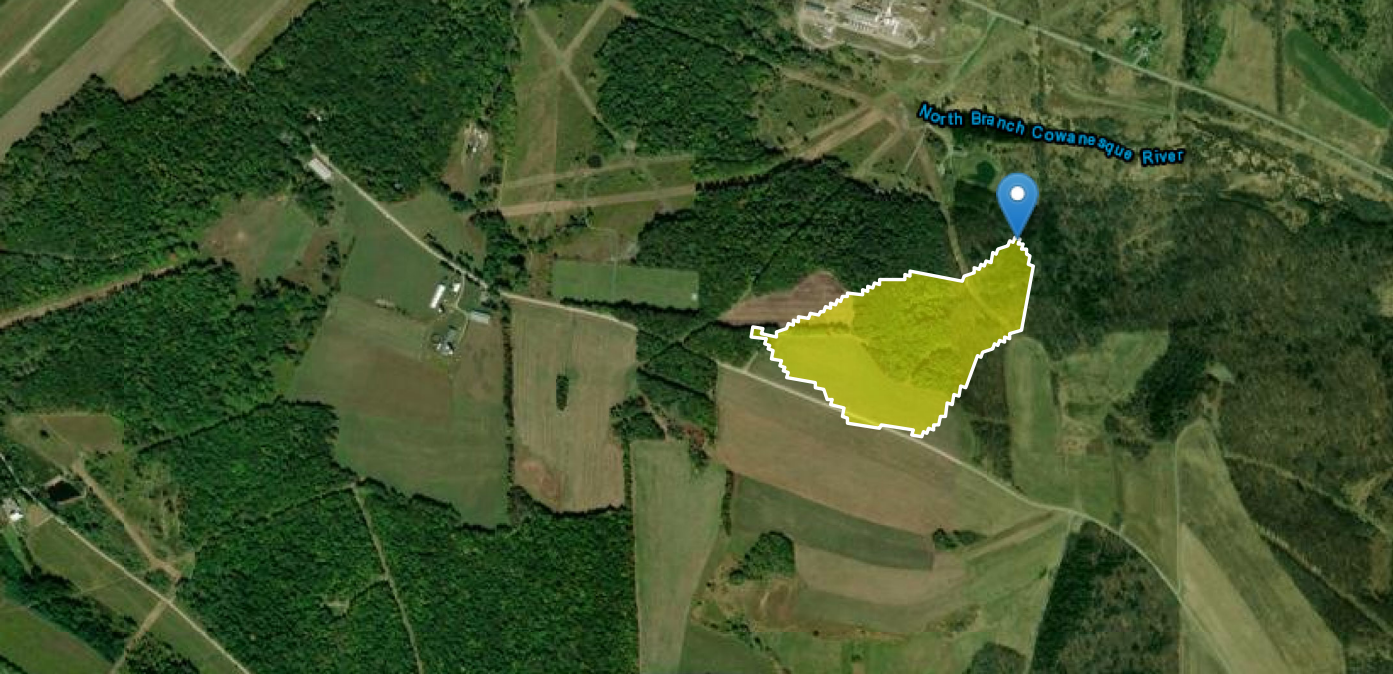
Application Version: 4.23.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

# S07 - StreamStats Report

**Region ID:** PA  
**Workspace ID:** PA20240906204801654000  
**Clicked Point (Latitude, Longitude):** 41.97508, -77.68355  
**Time:** 2024-09-06 16:48:25 -0400



S07 drainage area is approximately 0.0475 sq miles (30.4 acres)

[+ Collapse All](#)

**> Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0475	square miles
FOREST	Percentage of area covered by forest	49.187	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent

## ➤ General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0475	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	49.187	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.00545	ft <sup>3</sup> /s

#### *General Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

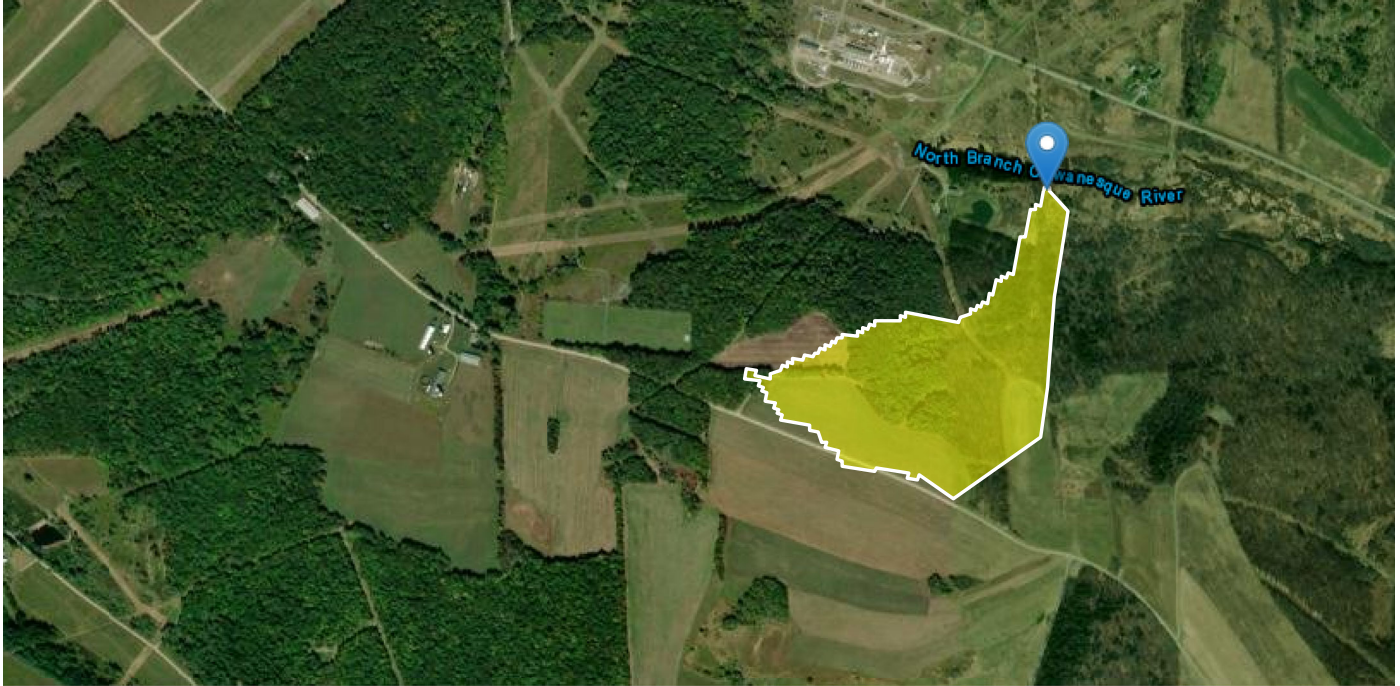
Application Version: 4.23.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

# S08 - StreamStats Report

Region ID: PA  
Workspace ID: PA20240906212048339000  
Clicked Point (Latitude, Longitude): 41.97680, -77.68276  
Time: 2024-09-06 17:21:29 -0400



S08 drainage area is approximately 0.0711 sq miles (45.5 acres) Area was added to the Stream Stats generated basin to account for actual delineated location of stream.

[+ Collapse All](#)

## > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0711	square miles
FOREST	Percentage of area covered by forest	49.8912	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent



## General Disclaimers

This watershed has been edited, computed flows and basin characteristics may not apply. For more information, submit a support request from the 'Help' button in the upper-right of the screen, attach a pdf of this report and request assistance from your local StreamStats regional representative.

## ➤ General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0711	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	49.8912	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.00842	ft <sup>3</sup> /s

#### *General Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

# S09 - StreamStats Report

Region ID: PA  
Workspace ID: PA20240906213747581000  
Clicked Point (Latitude, Longitude): 41.97674, -77.68117  
Time: 2024-09-06 17:38:31 -0400



S09 drainage area is approximately 0.0736 sq miles (47.1 acres). Area was added to the Stream Stats generated basin to account for actual delineated location of the stream.

[+ Collapse All](#)

## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0736	square miles
FOREST	Percentage of area covered by forest	53.9149	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent

## General Disclaimers

This watershed has been edited, computed flows and basin characteristics may not apply. For more information, submit a support request from the 'Help' button in the upper-right of the screen, attach a pdf of this report and request assistance from your local StreamStats regional representative.



## ➤ General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0736	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	53.9149	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.00894	ft <sup>3</sup> /s

#### *General Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

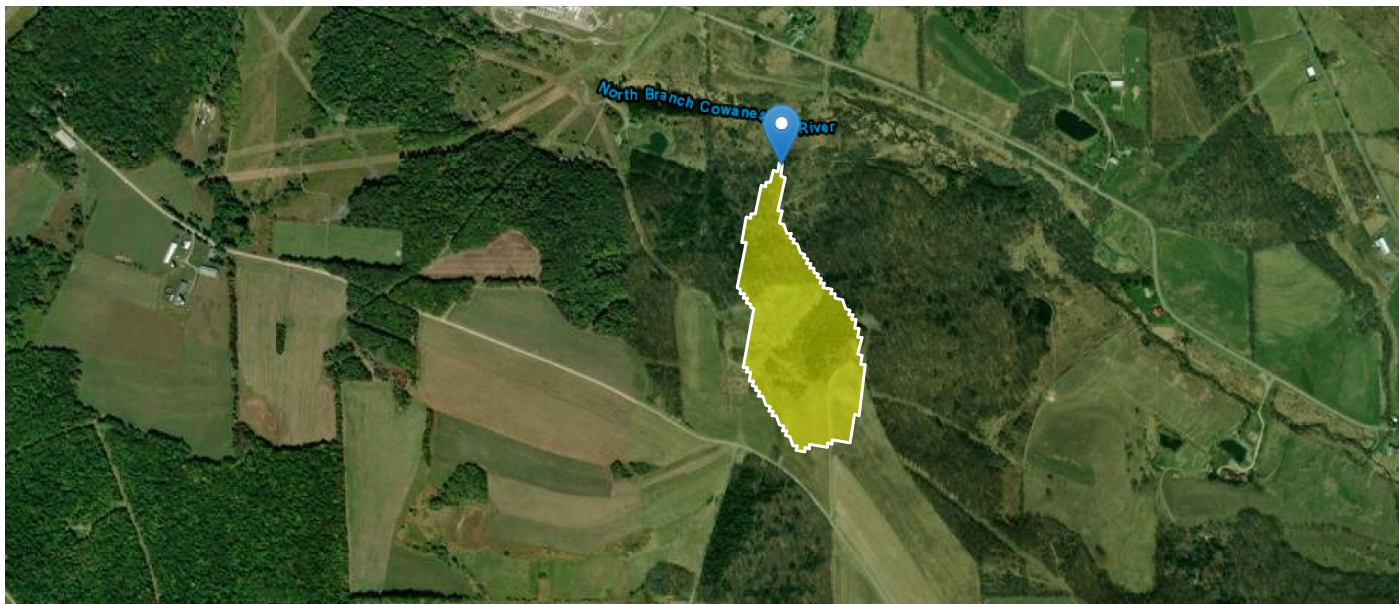
Application Version: 4.23.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

# S10 - StreamStats Report

**Region ID:** PA  
**Workspace ID:** PA20240906214240392000  
**Clicked Point (Latitude, Longitude):** 41.97586, -77.68091  
**Time:** 2024-09-06 17:43:04 -0400



S10 drainage area is approximately 0.0439 sq miles (28.1 acres)

[+ Collapse All](#)

## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0439	square miles
FOREST	Percentage of area covered by forest	62.3571	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent

## General Flow Statistics

General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0439	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	62.3571	percent	5.1	100

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
URBAN	Percent Urban	0	percent	0	89

General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.00539	ft <sup>3</sup> /s

*General Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.23.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

# S15 - StreamStats Report

Region ID: PA  
Workspace ID: PA20240906214843351000  
Clicked Point (Latitude, Longitude): 41.97842, -77.65683  
Time: 2024-09-06 17:49:04 -0400



S15 drainage area is approximately 0.0963 sq miles (61.63 acres). S15 is not mapped on Stream Stats. Drainage area was estimated by subtracting from larger basin.

[+ Collapse All](#)

## > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.0963	square miles
FOREST	Percentage of area covered by forest	91.8702	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent

## General Disclaimers

This watershed has been edited, computed flows and basin characteristics may not apply. For more information, submit a support request from the 'Help' button in the upper-right of the screen, attach a pdf of this report and request assistance from your local

## ➤ General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0963	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	91.8702	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.0144	ft <sup>3</sup> /s

#### General Flow Statistics Citations

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.23.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1



# S73z - StreamStats Report

Region ID: PA  
Workspace ID: PA20240906220920078000  
Clicked Point (Latitude, Longitude): 41.96791, -77.71690  
Time: 2024-09-06 18:09:39 -0400



S73z drainage area is approximately 0.13 sq miles (83.2 acres). S73z is not mapped on Stream Stats. Drainage area was estimated by subtracting from larger basin.

[+ Collapse All](#)

## ➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.13	square miles
FOREST	Percentage of area covered by forest	87.5218	percent
PRECIP	Mean Annual Precipitation	37	inches
URBAN	Percentage of basin with urban development	0	percent



## General Disclaimers

This watershed has been edited, computed flows and basin characteristics may not apply. For more information, submit a support request from the 'Help' button in the upper-right of the screen, attach a pdf of this report and request assistance from your local StreamStats regional representative.

## > General Flow Statistics

### General Flow Statistics Parameters [Statewide Mean and Base Flow]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.13	square miles	2.26	1720
PRECIP	Mean Annual Precipitation	37	inches	33.1	50.4
CARBON	Percent Carbonate	0	percent	0	99
FOREST	Percent Forest	87.5218	percent	5.1	100
URBAN	Percent Urban	0	percent	0	89

### General Flow Statistics Disclaimers [Statewide Mean and Base Flow]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### General Flow Statistics Flow Report [Statewide Mean and Base Flow]

Statistic	Value	Unit
Harmonic Mean Streamflow	0.0195	ft <sup>3</sup> /s

#### *General Flow Statistics Citations*

**Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.