

## Appendix G. Impaired Streams

### Youghiogheny Headwaters Management Unit

#### IMPAIRED STREAMS IN THE YOUGHIOGHENY RIVER HEADWATERS MANAGEMENT UNIT

##### *West Virginia*

TMDL Watershed	Stream Name	Trout	Iron	Aluminum	pH	Fecal Coliform	Biological Impairment
Snowy Creek	Snowy Creek	Yes	X			X	X
Snowy Creek	North Branch	Yes	X			X	
Snowy Creek	Laurel Run		X	X	X		
Snowy Creek	Little Laurel Run				X		
Snowy Creek	Wardwell Run		X			X	X
Snowy Creek	South Branch					X	
Rhine Creek	Rhine Creek	Yes				X	
Maple Run	Maple Run	Yes				X	X
Maple Run	UNT/Maple Run					X	

##### *Maryland*

Stream	Type of Impairment	TMDL or Water Quality Assessment (WQA)
Dunkard Lick Run	Temperature	WQA 2014
Hoyes Run	Temperature	WQA 2014
Little Youghiogheny River	Temperature	WQA 2014
Sections of Little Youghiogheny River	Bacteria	TMDL 2009
Sections of Little Youghiogheny River	Mercury	TMDL 2004
Broadford Lake	Mercury	WQA 2004
Herrington Lake	Mercury	TMDL 2004
Herrington Lake	Low pH	TMDL 2007
Murly Run tributary to Herrington Lake	Low pH	TMDL 2007
Millers Run	Low pH	TMDL 2007
Toliver Run	Low pH	TMDL 2007

Basin-wide - Sediment (TMDL 2007); Basin-wide Nutrients (TMDL 2004)  
 Basin-wide - Stream Modifications (Lack of Riparian Buffer) (TMDL 2014); Basin-wide - TMDL for pH (2008)  
 Basin-wide - Biological Stressor Identification (looking at TSS. Total Suspended Solids) (WQA 2010)

**Deep Creek Management Unit**

**IMPAIRED STREAMS IN THE DEEP CREEK WATERSHED**

<b>Stream</b>	<b>Source of Impairment</b>	<b>Type of Impairment</b>	<b>TMDL or Water Quality Assessment (WQA)</b>
Youghiogheny River Basin-wide	Unknown	Nitrogen, Phosphorus	WQA Biological Stressor Identification, 2014
Deep Creek Lake	Atmospheric Deposition	Mercury	TMDL, 2004 revised 2012
Deep Creek Lake	Runoff/Storm Sewers	Phosphorus	WQA, 2011
Tributary, Cherry Creek	Unknown	Fecal Bacteria	TMDL, 2009
Youghiogheny River Basin-wide	Runoff/Animal Grazing	Sediment	TMDL, 2007
Tributary, Cherry Creek	Abandoned Mine Drainage	low pH	TMDL, 2003

*Source: Maryland DOE List of TMDL and WQAs*

## Upper Youghiogheny River Management Unit

### IMPAIRED STREAMS IN THE UPPER YOUGHIOGHENY RIVER MANAGEMENT UNIT

Stream Name	Segment (mile)	Type of Impairment	TMDL or Other Assessment
Unnamed Tributary to Mill Run	1.70	low pH (Mine Drainage)	Maryland
N. Branch of Laurel Run	2.51	low pH (Mine Drainage)	TMDL
Unnamed Tributary to Glade Run	0.76	low pH (Mine Drainage)	September
Buffalo Run	2.00	low pH (Mine Drainage)	2007
Buffalo Run	0.41	High Temperature	Water Quality Assessment
Unnamed Tributary to Lake	Maryland	Benzo(a)pyrene, one sample (MD)	Will Re-assess
All tributaries in Youghiogheny River Watershed	Maryland Entire	Total Suspended Solids (TSS) for Nitrogen and Phosphorous	TMDL February, 2006
All tributaries in Youghiogheny River Watershed	Maryland Entire	Lack of Riparian Buffer	TMDL Biological Stressor Identification Report March 2014
Youghiogheny Lake in both Pennsylvania and Maryland; Youghiogheny River in Maryland	Entire	Mercury	No TMDL but listed in 2010
Youghiogheny Lake	Maryland	PCB in Fish Tissue - 2010	Will re-assess
Youghiogheny Lake in Pennsylvania Mercury, no Pennsylvania streams entering the lake are impaired			
<i>Source: Maryland DOE and PA DEP Water Program</i>			

**Casselman River Management Unit**

**LIST OF IMPAIRED STREAMS IN THE CASSELMAN RIVER WATERSHED**

*Maryland*

<b>Stream Name</b>	<b>High Temperature</b>	<b>Low pH/ Metals</b>	<b>Habitat Alterations</b>	<b>Mercury</b>	<b>TDS</b>	<b>Salinity/ Chlorides/</b>	<b>Sediment</b>
Big Laurel Run	X						
Red Run	X						
Sections South Branch Casselman River	X						
Meadow Run		X					
Sections North Branch Casselman River		X					
Pleasant Valley Run		X					
Little Shade Run		X					
Little Laurel Run		X					
Main stem of Casselman and tributaries					X		
Big Piney Reservoir				X			
Basin-wide - Sediment (TMDL 2007); Basin-wide Nutrients (TMDL 2004) Basin-wide - Stream Modifications (Lack of Riparian Buffer) (TMDL 2014); Basin-wide - TMDL for pH (2008) Basin-wide - Biological Stressor Identification (looking at TSS. Total Suspended Solids) (WQA 2010) Basin-wide TMDL Chlorides (WQA 2010 & 2022) and Analysis of Eutrophication (WQA 2001)							

**LIST OF IMPAIRED STREAMS IN THE CASSELMAN RIVER WATERSHED (Continued)**

*Pennsylvania*

<b>Stream Name</b>	<b>High Temperature</b>	<b>Low pH/ Metals</b>	<b>Habitat Alterations</b>	<b>Mercury</b>	<b>TDS Salinity/ Chlorides /Sulfates</b>	<b>Sediment</b>
Little Piney Creek						X
Unnamed Trib to Flaugherty Run						X
Segments of Biebers Creek		X				
Unnamed Trib to Bluelick Run		X			X	X
Tubs Run, Tributary to Buffalo Run		X				
Headwaters of Buffalo Run					X	
Unnamed Trib to Lick Run		X				
Entire Weimer Run		X				
Coxes Creek (entire)		X	X		X	
South Glade Run			X			X
Cucumber Run		X				
Whites Creek from intersection of Laurel Run to Mouth		X				
Unnamed Tributaries to Casselman		X	X		X	
Acid Mine Drainage Affected Streams for Wilson Run TMDL (2008)						
Acid Mine Drainage Affected Streams for Shafer Run TMDL (2007)						
Acid Mine Drainage Affected Streams for Whites Creek TMDL (2009)						

Source: EPA's 'How's My Waterway'

**Middle Youghiogheny River Management Unit**

**IMPAIRED STREAMS IN MIDDLE YOUGH WATERSHED**

<b>Stream or Subwatershed</b>	<b>Miles</b>	<b>Assessed Use</b>	<b>Impairment Source</b>	<b>Impairment Cause</b>
Laurel Run	1.43	Aquatic Life	AMD	TDS, Metals
Deadman Run	7.38	Aquatic Life	Septic System	Siltation and Organic Enrichment
Jonathan Run	4.93	Aquatic Life	AMD	Metals
Gist Run	1.32	Aquatic Life	Residential Area	Siltation
Gist Run	1.94	Aquatic Life	AMD	Siltation
Ferguson Run	4.67	Aquatic Life	AMD	Metals, pH
Glade Run	7.55	Aquatic Life	AMD	Metals, pH
<i>Ferguson Run Total Maximum Daily Load - 2009</i>			<i>Glade Run Total Maximum Daily Load - 2009</i>	
<i>Laurel Run Total Maximum Daily Load - 2003</i>				

**Indian Creek Management Unit**

**INDIAN CREEK MANAGEMENT UNIT IMPAIRED STREAM SEGMENTS**

<b>STREAMS</b>	<b>IMPAIRMENT SOURCE</b>	<b>CAUSES OF IMPAIRMENT</b>	<b>LENGTH OF IMPAIRMENT</b>	<b>GENERALIZED LOCATION</b>
<b>Indian Creek</b>				
Unnamed Tributary	Removal of Vegetation Abandoned Mine Drainage	Siltation, Turbidity TDS	0.43 miles	Enters Indian Creek on the opposite side from Mt. Pines Campground
Unnamed Tributary	Removal of Vegetation	Siltation	2.82 miles	Kibe Road near Pine Slopes Road and follows Calvary Church Road and enters Indian Creek south of Nebo Road extension behind the former Clifford Pritts Elementary School
Unnamed Tributary	Removal of Vegetation	Siltation & Turbidity	0.31 miles	Enters Indian Creek south of Pine Slopes Road
	Abandoned Mine Drainage	TDS		
Unnamed Tributary	Abandoned Mine Drainage	Metals, TDS, pH	1.58 miles	Hopewell Road to confluence with Indian Creek above the Kalp Treatment System

**5.14 Miles of Impairment to Indian Creek**

**Champion Creek**

Champion Creek	Abandoned Mine Drainage	Metals	0.84 miles	From Shirley Lane to confluence with Indian Creek
Unnamed Tributary	Abandoned Mine Drainage	Metals	0.74 miles	Tributary that enters Champion Creek at Shirley Lane

**1.58 Miles of Impairment to Champion Creek**

**INDIAN CREEK MANAGEMENT UNIT IMPAIRED STREAM SEGMENTS (Continued)**

<b>STREAMS</b>	<b>IMPAIRMENT SOURCE</b>	<b>CAUSES OF IMPAIRMENT</b>	<b>LENGTH OF IMPAIRMENT</b>	<b>GENERALIZED LOCATION</b>
<b>Poplar Run</b>				
Poplar Run	Land Development Abandoned Mine Drainage	Siltation Metals	2.79 miles	Confluence with Newmyer Run to confluence with Indian Creek
Unnamed Tributary	Land Development Abandoned Mine Drainage	Siltation Metals	0.73 miles	Starts at Imel Road
Unnamed Tributary	Land Development Abandoned Mine Drainage	Siltation Metals	0.75 miles	Between Bunbaugh & Ike Prinkey Road
Unnamed Tributary	Land Development	Siltation	0.72 miles	Follows Ike Prinkey Road
	Abandoned Mine Drainage	Metals		
Newmyer Run	Abandoned Mine Drainage	Metals	2.81 miles	

**7.8 Miles of Impairment to Poplar Run**