Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_11-115** **SWARTZ**

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	7
Bay-wide Brook Trout Tier	17
NID ID	PA01488
State ID	11-115
River Name	Swartz Run
Dam Height (ft)	12.7
Dam Type	Earth
Latitude	40.5761
Longitude	-78.5654
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Headwaters Clearfield Creek
HUC 10	Clearfield Creek
HUC 8	Upper West Branch Susquehann
HUC 6	West Branch Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.35
% Natural Cover in Upstream Drainage Area	52.1
% Forested in Upstream Drainage Area	50.74
% Agriculture in Upstream Drainage Area	42.97
% Natural Cover in ARA of Upstream Network	72.05
% Natural Cover in ARA of Downstream Network	86.05
% Forest Cover in ARA of Upstream Network	69.36
% Forest Cover in ARA of Downstream Network	82.43
% Agricultral Cover in ARA of Upstream Network	24.24
% Agricultral Cover in ARA of Downstream Network	4.57
% Impervious Surf in ARA of Upstream Network	0.17
% Impervious Surf in ARA of Downstream Network	1.14

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	54.5
% Tree Cover in ARA of Downstream Network	78.49
% Herbaceaous Cover in ARA of Upstream Network	41.21
% Herbaceaous Cover in ARA of Downstream Network	16.23
% Barren Cover in ARA of Upstream Network	0.03
% Barren Cover in ARA of Downstream Network	0.32
% Road Impervious in ARA of Upstream Network	0.56
% Road Impervious in ARA of Downstream Network	0.91
% Other Impervious in ARA of Upstream Network	0.75
% Other Impervious in ARA of Downstream Network	1.29

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

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Network, System Type and Condition

Functional Upstream Network (mi)	3.74	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	631.89	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.74	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	6
# Upstream Network Size Classes	1	# of Downstream Barriers	9

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	13.83
Density of Crossings in Upstream Network Watershed (#/m2)	0.59
Density of Crossings in Downstream Network Watershed (#/m2)	0.86
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0

Diadromous Fish

Downstream Alewife	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	1

Resident Fish

Barrier is in EBTJV BKT Catchment	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	Yes
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	29
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Poor

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