

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_22-067** **SWATARA**

Bay-wide Diadromous Tier	2
Bay-wide Resident Tier	13
Bay-wide Brook Trout Tier	N/A
NID ID	PA01541
State ID	22-067
River Name	Swatara Creek
Dam Height (ft)	10
Dam Type	Concrete
Latitude	40.2907
Longitude	-76.6756
Passage Facilities	Denil
Passage Year	2006
Size Class	3a: Medium Tributary River (200
HUC 12	Swatara Creek-Susquehanna Riv
HUC 10	Lower Swatara Creek
HUC 8	Lower Susquehanna-Swatara
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.97	% Tree Cover in ARA of Upstream Network	36.03
% Natural Cover in Upstream Drainage Area	44.7	% Tree Cover in ARA of Downstream Network	34.39
% Forested in Upstream Drainage Area	42.15	% Herbaceous Cover in ARA of Upstream Network	53.85
% Agriculture in Upstream Drainage Area	39.7	% Herbaceous Cover in ARA of Downstream Network	39.34
% Natural Cover in ARA of Upstream Network	31.55	% Barren Cover in ARA of Upstream Network	0.54
% Natural Cover in ARA of Downstream Network	25.1	% Barren Cover in ARA of Downstream Network	2
% Forest Cover in ARA of Upstream Network	24.78	% Road Impervious in ARA of Upstream Network	1.43
% Forest Cover in ARA of Downstream Network	10.85	% Road Impervious in ARA of Downstream Network	2.59
% Agricultural Cover in ARA of Upstream Network	50.68	% Other Impervious in ARA of Upstream Network	5.87
% Agricultural Cover in ARA of Downstream Network	16.4	% Other Impervious in ARA of Downstream Network	13.01
% Impervious Surf in ARA of Upstream Network	4.85		
% Impervious Surf in ARA of Downstream Network	17.49		

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_22-067**

SWATARA

Network, System Type and Condition

Functional Upstream Network (mi)	384.99	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	398.78	# Downstream Natural Barriers	0
Absolute Gain (mi)	13.8	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	4
# Upstream Network Size Classes	4	# of Downstream Barriers	5
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0.19		
% Conserved Land in 100m Buffer of Downstream Network	0.32		
Density of Crossings in Upstream Network Watershed (#/m2)	1.24		
Density of Crossings in Downstream Network Watershed (#/m2)	2.44		
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	2		

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf