





Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: PA_38-086		SWATARA INTAKE	LEBANON WATER AUTH. DAM	
Diadromous Tier	2	   		
Brook Trout Tier	N/A			
Resident Tier	7			
NID ID				
State ID	38-086			
River Name	Swatara Creek			
Dam Height (ft)	4.5			
Dam Type	Concrete			
Latitude	40.416			
Longitude	-76.4895			
Passage Facilities	Notch			
Passage Year	2006			
Size Class	2: Small River (38.61 - 200 sq mi)			
HUC 12	Lower Swatara Creek			
HUC 10	Upper 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	1.6	% Tree Cover in ARA of Upstream Network	63.56
% Natural Cover in Upstream Drainage Area	70.49	% Tree Cover in ARA of Downstream Network	36.03
% Forested in Upstream Drainage Area	67.4	% Herbaceous Cover in ARA of Upstream Network	28.6
% Agriculture in Upstream Drainage Area	20.46	% Herbaceous Cover in ARA of Downstream Network	53.85
% Natural Cover in ARA of Upstream Network	63.78	% Barren Cover in ARA of Upstream Network	1.02
% Natural Cover in ARA of Downstream Network	31.55	% Barren Cover in ARA of Downstream Network	0.54
% Forest Cover in ARA of Upstream Network	58.37	% Road Impervious in ARA of Upstream Network	1.7
% Forest Cover in ARA of Downstream Network	24.78	% Road Impervious in ARA of Downstream Network	1.43
% Agricultural Cover in ARA of Upstream Network	20.8	% Other Impervious in ARA of Upstream Network	3.28
% Agricultural Cover in ARA of Downstream Network	50.68	% Other Impervious in ARA of Downstream Network	5.87
% Impervious Surf in ARA of Upstream Network	3		
% Impervious Surf in ARA of Downstream Network	4.85		

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot2/images/Metric_Glossary.pdf

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Network, System Type and Condition					
Functional Upstream Network (mi)	197.95	Upstream Size Class Gain (#)	0		
Total Functional Network (mi)	582.94	# Downstream Natural Barriers	0		
Absolute Gain (mi)	197.95	# Downstream Hydropower Dams	4		
# Size Classes in Total Network	4	# Downstream Dams with Passage	5		
# Upstream Network Size Classes	3	# of Downstream Barriers	6		
NFHAP Cumulative Disturbance Index		Very High			
Dam is on Conserved Land		No			
% Conserved Land in 100m Buffer of Upstream Network		15.29			
% Conserved Land in 100m Buffer of Downstream Network		0.19			
Density of Crossings in Upstream Network Watershed (#/m2)		0.97			
Density of Crossings in Downstream Network Watershed (#/m2)		1.24			
Density of off-channel dams in Upstream Network Watershed (#/m2)		0.01			
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			Stream Health		
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health	POOR		
Barrier is in Modeled BKT Catchment (DeWeber)	No	MD MBSS Benthic IBI Stream Health	N/A		
Barrier Blocks an EBTJV Catchment	No	MD MBSS Fish IBI Stream Health	N/A		
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes	MD MBSS Combined IBI Stream Health	N/A		
Native Fish Species Richness (HUC8)	38	VA INSTAR mIBI Stream Health	N/A		
# Rare Fish (HUC8)	0	PA IBI Stream Health	Fair		
# Rare Mussel (HUC8)	2				
# Rare Crayfish (HUC8)	0				

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