

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12084** **SMITHVILLE DAM**

Bay-wide Diadromous Tier	3
Bay-wide Resident Tier	9
Bay-wide Brook Trout Tier	N/A
NID ID	MD00048
State ID	12084
River Name	Tommy Wright Branch
Dam Height (ft)	14
Dam Type	Earth
Latitude	38.7739
Longitude	-75.7296
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Tommy Wright Branch-Marshy
HUC 10	Marshyhope Creek
HUC 8	Nanticoke
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.69	% Tree Cover in ARA of Upstream Network	38.54
% Natural Cover in Upstream Drainage Area	34.1	% Tree Cover in ARA of Downstream Network	43.34
% Forested in Upstream Drainage Area	12.53	% Herbaceous Cover in ARA of Upstream Network	58.96
% Agriculture in Upstream Drainage Area	59.64	% Herbaceous Cover in ARA of Downstream Network	49.7
% Natural Cover in ARA of Upstream Network	35.78	% Barren Cover in ARA of Upstream Network	0.12
% Natural Cover in ARA of Downstream Network	50.61	% Barren Cover in ARA of Downstream Network	0.22
% Forest Cover in ARA of Upstream Network	12.84	% Road Impervious in ARA of Upstream Network	1
% Forest Cover in ARA of Downstream Network	11.37	% Road Impervious in ARA of Downstream Network	0.98
% Agricultural Cover in ARA of Upstream Network	58.27	% Other Impervious in ARA of Upstream Network	0.78
% Agricultural Cover in ARA of Downstream Network	43.1	% Other Impervious in ARA of Downstream Network	1.52
% Impervious Surf in ARA of Upstream Network	0.72		
% Impervious Surf in ARA of Downstream Network	1.22		

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)	24.48	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1230.17	# Downstream Natural Barriers	0
Absolute Gain (mi)	24.48	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	Yes		
% Conserved Land in 100m Buffer of Upstream Network	48.87		
% Conserved Land in 100m Buffer of Downstream Network	31.2		
Density of Crossings in Upstream Network Watershed (#/m2)	0.62		
Density of Crossings in Downstream Network Watershed (#/m2)	0.61		
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	Current	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	4		

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	46
# 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	Fair
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf