Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_BA037**

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	16
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	BA037
River Name	Stemmers Run
Dam Height (ft)	8
Dam Type	Unspecified Type
Latitude	39.3702
Longitude	-76.5267
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Back River-Hawk Cove-Chesapea
HUC 10	Back River-Chesapeake Bay
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	27.58
% Natural Cover in Upstream Drainage Area	15.93
% Forested in Upstream Drainage Area	15.7
% Agriculture in Upstream Drainage Area	0
% Natural Cover in ARA of Upstream Network	55.04
% Natural Cover in ARA of Downstream Network	71.22
% Forest Cover in ARA of Upstream Network	52.94
% Forest Cover in ARA of Downstream Network	71.22
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	0
% Impervious Surf in ARA of Upstream Network	9.25
% Impervious Surf in ARA of Downstream Network	6.68

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	65.15
% Tree Cover in ARA of Downstream Network	81.43
% Herbaceaous Cover in ARA of Upstream Network	23.18
% Herbaceaous Cover in ARA of Downstream Network	6.97
% Barren Cover in ARA of Upstream Network	0.06
% Barren Cover in ARA of Downstream Network	0.19
% Road Impervious in ARA of Upstream Network	3.3
% Road Impervious in ARA of Downstream Network	0.27
% Other Impervious in ARA of Upstream Network	8.31
% Other Impervious in ARA of Downstream Network	11.13

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)	0.6	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1.8	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.6	# Downstream Hydropower Dams	0
# Size Classes in Total Network	1	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	29.83
% Conserved Land in 100m Buffer of Downstream Network	51.18
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.45
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	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	1

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)	52
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

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

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