Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12052** **SASSAFRAS MILL DAM**

Bay-wide Diadromous Tier	3
Bay-wide Resident Tier	12
Bay-wide Brook Trout Tier	N/A
NID ID	MD00025
State ID	12052
River Name	Herring Branch
Dam Height (ft)	10
Dam Type	Earth
Latitude	39.3719
Longitude	-75.8037
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Upper Sassafras River
HUC 10	Sassafras River
HUC 8	Chester-Sassafras
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.26
% Natural Cover in Upstream Drainage Area	45.19
% Forested in Upstream Drainage Area	21.95
% Agriculture in Upstream Drainage Area	50.38
% Natural Cover in ARA of Upstream Network	55.2
% Natural Cover in ARA of Downstream Network	55.28
% Forest Cover in ARA of Upstream Network	14.37
% Forest Cover in ARA of Downstream Network	18.29
% Agricultral Cover in ARA of Upstream Network	38
% Agricultral Cover in ARA of Downstream Network	40.86
% Impervious Surf in ARA of Upstream Network	0.22
% Impervious Surf in ARA of Downstream Network	0.49

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	50.13
% Tree Cover in ARA of Downstream Network	38.66
% Herbaceaous Cover in ARA of Upstream Network	42.73
% Herbaceaous Cover in ARA of Downstream Network	44.74
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.13
% Road Impervious in ARA of Upstream Network	0.59
% Road Impervious in ARA of Downstream Network	0.51
% Other Impervious in ARA of Upstream Network	1.17
% Other Impervious in ARA of Downstream Network	1.27

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)	1.23	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	151.45	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.23	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	24.21
% Conserved Land in 100m Buffer of Downstream Network	15.49
Density of Crossings in Upstream Network Watershed (#/m2)	0.41
Density of Crossings in Downstream Network Watershed (#/m2)	0.25
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01

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
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	4

Resident Fish and Rare Species

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)	48
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	Poor
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

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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