

## 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)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.26	% Tree Cover in ARA of Upstream Network	50.13
% Natural Cover in Upstream Drainage Area	45.19	% Tree Cover in ARA of Downstream Network	38.66
% Forested in Upstream Drainage Area	21.95	% Herbaceous Cover in ARA of Upstream Network	42.73
% Agriculture in Upstream Drainage Area	50.38	% Herbaceous Cover in ARA of Downstream Network	44.74
% Natural Cover in ARA of Upstream Network	55.2	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	55.28	% Barren Cover in ARA of Downstream Network	0.13
% Forest Cover in ARA of Upstream Network	14.37	% Road Impervious in ARA of Upstream Network	0.59
% Forest Cover in ARA of Downstream Network	18.29	% Road Impervious in ARA of Downstream Network	0.51
% Agricultural Cover in ARA of Upstream Network	38	% Other Impervious in ARA of Upstream Network	1.17
% Agricultural Cover in ARA of Downstream Network	40.86	% Other Impervious in ARA of Downstream Network	1.27
% Impervious Surf in ARA of Upstream Network	0.22		
% Impervious Surf in ARA of Downstream Network	0.49		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](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	# Downstream 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
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)	48
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0

## 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

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[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf)