

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD\_12217**      **RILEY MILL POND**

Diadromous Tier	11
Brook Trout Tier	N/A
Resident Tier	13
NID ID	MD00190
State ID	SA013
River Name	Mill Creek
Dam Height (ft)	14
Dam Type	Earth
Latitude	39.3501
Longitude	-75.8702
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 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	1.56	% Tree Cover in ARA of Upstream Network	58.53
% Natural Cover in Upstream Drainage Area	22.74	% Tree Cover in ARA of Downstream Network	41.56
% Forested in Upstream Drainage Area	12.8	% Herbaceous Cover in ARA of Upstream Network	17.98
% Agriculture in Upstream Drainage Area	64.62	% Herbaceous Cover in ARA of Downstream Network	21.76
% Natural Cover in ARA of Upstream Network	75.94	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	84.75	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	32.89	% Road Impervious in ARA of Upstream Network	1.36
% Forest Cover in ARA of Downstream Network	16.95	% Road Impervious in ARA of Downstream Network	0
% Agricultural Cover in ARA of Upstream Network	17.11	% Other Impervious in ARA of Upstream Network	1.38
% Agricultural Cover in ARA of Downstream Network	15.25	% Other Impervious in ARA of Downstream Network	0.8
% Impervious Surf in ARA of Upstream Network	0.53		
% Impervious Surf in ARA of Downstream Network	0		

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)	1.34	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	1.52	# Downstream Natural Barriers	0
Absolute Gain (mi)	0.18	# 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	Yes		
% Conserved Land in 100m Buffer of Upstream Network	45.08		
% Conserved Land in 100m Buffer of Downstream Network	93.98		
Density of Crossings in Upstream Network Watershed (#/m2)	2.45		
Density of Crossings in Downstream Network Watershed (#/m2)	0		
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)	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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