

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_PA026** **Liberty Lake**

Bay-wide Diadromous Tier	2
Bay-wide Resident Tier	4
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	PA026
River Name	North Branch Patapsco River
Dam Height (ft)	175
Dam Type	Unspecified Type
Latitude	39.3765
Longitude	-76.8904
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi)
HUC 12	Falls Run-Liberty Lake-North Bra
HUC 10	North Branch Patapsco River
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.02	% Tree Cover in ARA of Upstream Network	61.75
% Natural Cover in Upstream Drainage Area	41.2	% Tree Cover in ARA of Downstream Network	73.89
% Forested in Upstream Drainage Area	34.7	% Herbaceous Cover in ARA of Upstream Network	21.66
% Agriculture in Upstream Drainage Area	40.91	% Herbaceous Cover in ARA of Downstream Network	19.39
% Natural Cover in ARA of Upstream Network	73.27	% Barren Cover in ARA of Upstream Network	0.16
% Natural Cover in ARA of Downstream Network	77.78	% Barren Cover in ARA of Downstream Network	1.36
% Forest Cover in ARA of Upstream Network	52.13	% Road Impervious in ARA of Upstream Network	0.61
% Forest Cover in ARA of Downstream Network	69.95	% Road Impervious in ARA of Downstream Network	0.71
% Agricultural Cover in ARA of Upstream Network	18.78	% Other Impervious in ARA of Upstream Network	1.59
% Agricultural Cover in ARA of Downstream Network	11.76	% Other Impervious in ARA of Downstream Network	2.48
% Impervious Surf in ARA of Upstream Network	1.01		
% Impervious Surf in ARA of Downstream Network	1.36		

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)	244.01	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	309.05	# Downstream Natural Barriers	0
Absolute Gain (mi)	65.04	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	3	# of Downstream Barriers	1
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	Yes		
% Conserved Land in 100m Buffer of Upstream Network	22.24		
% Conserved Land in 100m Buffer of Downstream Network	40.29		
Density of Crossings in Upstream Network Watershed (#/m2)	0.79		
Density of Crossings in Downstream Network Watershed (#/m2)	1.23		
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	Historical	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	3		

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
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	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

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