Chesapeake Fish Passage Prioritization - Dam Fact Sheet

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

Diadromous Tier	2
Brook Trout Tier	N/A
Resident Tier	4
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)	
% Impervious Surface in Upstream Drainage Area	3.02
% Natural Cover in Upstream Drainage Area	41.2
% Forested in Upstream Drainage Area	34.7
% Agriculture in Upstream Drainage Area	40.91
% Natural Cover in ARA of Upstream Network	73.27
% Natural Cover in ARA of Downstream Network	77.78
% Forest Cover in ARA of Upstream Network	52.13
% Forest Cover in ARA of Downstream Network	69.95
% Agricultral Cover in ARA of Upstream Network	18.78
% Agricultral Cover in ARA of Downstream Network	11.76
% Impervious Surf in ARA of Upstream Network	1.01
% Impervious Surf in ARA of Downstream Network	1.36

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	61.75
% Tree Cover in ARA of Downstream Network	73.89
% Herbaceaous Cover in ARA of Upstream Network	21.66
% Herbaceaous Cover in ARA of Downstream Network	19.39
% Barren Cover in ARA of Upstream Network	0.16
% Barren Cover in ARA of Downstream Network	1.36
% Road Impervious in ARA of Upstream Network	0.61
% Road Impervious in ARA of Downstream Network	0.71
% Other Impervious in ARA of Upstream Network	1.59
% Other Impervious in ARA of Downstream Network	2.48

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	# Downsteam 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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