Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12025** **BRIGHTON DAM**

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	4
Bay-wide Brook Trout Tier	N/A
NID ID	MD00005
State ID	12025
River Name	Patuxent River
Dam Height (ft)	82
Dam Type	Concrete Buttress
Latitude	39.193
Longitude	-77.0054
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Triadelphia Reservoir-Patuxent
HUC 10	Headwaters Patuxent River
HUC 8	Patuxent
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.1
% Natural Cover in Upstream Drainage Area	39.66
% Forested in Upstream Drainage Area	32.68
% Agriculture in Upstream Drainage Area	49.85
% Natural Cover in ARA of Upstream Network	71.57
% Natural Cover in ARA of Downstream Network	73.16
% Forest Cover in ARA of Upstream Network	50.42
% Forest Cover in ARA of Downstream Network	55.22
% Agricultral Cover in ARA of Upstream Network	23.87
% Agricultral Cover in ARA of Downstream Network	17.66
% Impervious Surf in ARA of Upstream Network	0.36
% Impervious Surf in ARA of Downstream Network	1.17

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	65.78
% Tree Cover in ARA of Downstream Network	69.99
% Herbaceaous Cover in ARA of Upstream Network	24.82
% Herbaceaous Cover in ARA of Downstream Network	20.25
% Barren Cover in ARA of Upstream Network	0.73
% Barren Cover in ARA of Downstream Network	0.16
% Road Impervious in ARA of Upstream Network	0.32
% Road Impervious in ARA of Downstream Network	0.36
% Other Impervious in ARA of Upstream Network	0.77
% Other Impervious in ARA of Downstream Network	1.29

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)	139.89	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	267.79	# Downsteam Natural Barriers	0
Absolute Gain (mi)	127.9	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	3	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	40.75
% Conserved Land in 100m Buffer of Downstream Network	35.13
Density of Crossings in Upstream Network Watershed (#/m2)	0.59
Density of Crossings in Downstream Network Watershed (#/m2)	0.65
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	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	0

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)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	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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