Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_PO041**

Bay-wide Diadromous Tier	12
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	PO041
River Name	Big Duke Creek
Dam Height (ft)	10
Dam Type	Unspecified Type
Latitude	38.1936
Longitude	-76.5365
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Poplar Hill Creek
HUC 10	Saint Clements Bay-Potomac Riv
HUC 8	Lower Potomac
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.26
% Natural Cover in Upstream Drainage Area	70.88
% Forested in Upstream Drainage Area	48.14
% Agriculture in Upstream Drainage Area	24.49
% Natural Cover in ARA of Upstream Network	93.31
% Natural Cover in ARA of Downstream Network	49.76
% Forest Cover in ARA of Upstream Network	45.02
% Forest Cover in ARA of Downstream Network	29.34
% Agricultral Cover in ARA of Upstream Network	5.79
% Agricultral Cover in ARA of Downstream Network	38.23
% Impervious Surf in ARA of Upstream Network	0.07
% Impervious Surf in ARA of Downstream Network	1.75

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	85.9
% Tree Cover in ARA of Downstream Network	45.81
% Herbaceaous Cover in ARA of Upstream Network	11.46
% Herbaceaous Cover in ARA of Downstream Network	46.37
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.02
% Road Impervious in ARA of Upstream Network	0.16
% Road Impervious in ARA of Downstream Network	1.36
% Other Impervious in ARA of Upstream Network	0.77
% Other Impervious in ARA of Downstream Network	2.43

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)	0.83	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	11.63	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.83	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# 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	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	3.08
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.63
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	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
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	0

Resident Fish and Rare Species

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)	55
# Rare Fish (HUC8)	3
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

Stream Health

Chesapeake Bay Program Stream Health	GOOD
MD MBSS Benthic IBI Stream Health	Good
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

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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