Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_800** **BRASFIELD (APPOMATTOX)** **GEORGE F. BRASFIELD DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	VA04101
State ID	800
River Name	Appomattox River
Dam Height (ft)	73
Dam Type	Gravity
Latitude	37.2204
Longitude	-77.5249
Passage Facilities	Fish Lift
Passage Year	2004
Size Class	3b: Medium Mainstem River (1,
HUC 12	Oldtown Creek-Appomattox Riv
HUC 10	Ashton Creek-Appomattox River
HUC 8	Appomattox
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.53
% Natural Cover in Upstream Drainage Area	78.27
% Forested in Upstream Drainage Area	62.59
% Agriculture in Upstream Drainage Area	17.95
% Natural Cover in ARA of Upstream Network	88.39
% Natural Cover in ARA of Downstream Network	86.42
% Forest Cover in ARA of Upstream Network	61
% Forest Cover in ARA of Downstream Network	58.36
% Agricultral Cover in ARA of Upstream Network	9.87
% Agricultral Cover in ARA of Downstream Network	7.46
% Impervious Surf in ARA of Upstream Network	0.27
% Impervious Surf in ARA of Downstream Network	1.26

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	86.58
% Tree Cover in ARA of Downstream Network	74.57
% Herbaceaous Cover in ARA of Upstream Network	9.87
% Herbaceaous Cover in ARA of Downstream Network	9.99
% Barren Cover in ARA of Upstream Network	0.08
% Barren Cover in ARA of Downstream Network	2.2
% Road Impervious in ARA of Upstream Network	0.36
% Road Impervious in ARA of Downstream Network	1.08
% Other Impervious in ARA of Upstream Network	0.38
% Other Impervious in ARA of Downstream Network	2.13

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)	2956.68	Upstream Size Class Gain (#)	3
Total Functional Network (mi)	2966.67	# Downsteam Natural Barriers	0
Absolute Gain (mi)	9.99	# Downstream Hydropower Dams	2
# Size Classes in Total Network	5	# Downstream Dams with Passage	2
# Upstream Network Size Classes	5	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	5.91
% Conserved Land in 100m Buffer of Downstream Network	3.77
Density of Crossings in Upstream Network Watershed (#/m2)	0.5
Density of Crossings in Downstream Network Watershed (#/m2)	1.02
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.05

Diadromous Fish

Downstream Alewife	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Potential Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	2

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)	58
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	3
# 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	POOR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Very High
PA IBI Stream Health	N/A

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

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