

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_800		BRASFIELD (APPOMATTOX)	GEORGE F. BRASFIELD DAM
Diadromous Tier	1		
Brook Trout Tier	N/A		
Resident Tier	1		
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)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.53	% Tree Cover in ARA of Upstream Network	86.58
% Natural Cover in Upstream Drainage Area	78.27	% Tree Cover in ARA of Downstream Network	74.57
% Forested in Upstream Drainage Area	62.59	% Herbaceous Cover in ARA of Upstream Network	9.87
% Agriculture in Upstream Drainage Area	17.95	% Herbaceous Cover in ARA of Downstream Network	9.99
% Natural Cover in ARA of Upstream Network	88.39	% Barren Cover in ARA of Upstream Network	0.08
% Natural Cover in ARA of Downstream Network	86.42	% Barren Cover in ARA of Downstream Network	2.2
% Forest Cover in ARA of Upstream Network	61	% Road Impervious in ARA of Upstream Network	0.36
% Forest Cover in ARA of Downstream Network	58.36	% Road Impervious in ARA of Downstream Network	1.08
% Agricultural Cover in ARA of Upstream Network	9.87	% Other Impervious in ARA of Upstream Network	0.38
% Agricultural Cover in ARA of Downstream Network	7.46	% Other Impervious in ARA of Downstream Network	2.13
% Impervious Surf in ARA of Upstream Network	0.27		
% Impervious Surf in ARA of Downstream Network	1.26		

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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BRASFIELD (APPOMATTOX)

GEORGE F. BRASFIELD DAM

Network, System Type and Condition

Functional Upstream Network (mi)	2956.68	Upstream Size Class Gain (#)	3
Total Functional Network (mi)	2966.67	# Downstream 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
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	2		

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)	58
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

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

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