

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_741		RESERVOIR #1
Diadromous Tier	13	 
Brook Trout Tier	N/A	
Resident Tier	15	
NID ID		
State ID	741	 
River Name	Broad Branch	
Dam Height (ft)	28	
Dam Type	Earth	
Latitude	37.6455	
Longitude	-77.706	
Passage Facilities	None Documented	
Passage Year	N/A	
Size Class	1a: Headwater (0 - 3.861 sq mi)	
HUC 12	Tuckahoe Creek	
HUC 10	Tuckahoe Creek-James River	
HUC 8	Middle James-Willis	
HUC 6	James	
HUC 4	Lower Chesapeake	

Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.11	% Tree Cover in ARA of Upstream Network	32.72
% Natural Cover in Upstream Drainage Area	42.32	% Tree Cover in ARA of Downstream Network	18.37
% Forested in Upstream Drainage Area	38.78	% Herbaceous Cover in ARA of Upstream Network	44.75
% Agriculture in Upstream Drainage Area	12.02	% Herbaceous Cover in ARA of Downstream Network	26.17
% Natural Cover in ARA of Upstream Network	34.78	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	53.01	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	21.74	% Road Impervious in ARA of Upstream Network	0.07
% Forest Cover in ARA of Downstream Network	13.11	% Road Impervious in ARA of Downstream Network	0.21
% Agricultural Cover in ARA of Upstream Network	2.54	% Other Impervious in ARA of Upstream Network	4.25
% Agricultural Cover in ARA of Downstream Network	0	% Other Impervious in ARA of Downstream Network	14.76
% Impervious Surf in ARA of Upstream Network	3.66		
% Impervious Surf in ARA of Downstream Network	6		

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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RESERVOIR #1

Network, System Type and Condition

Functional Upstream Network (mi)	2.14	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	3.11	# Downstream Natural Barriers	0
Absolute Gain (mi)	0.96	# Downstream Hydropower Dams	3
# Size Classes in Total Network	1	# Downstream Dams with Passage	2
# Upstream Network Size Classes	1	# of Downstream Barriers	5
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	0		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	0		
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)	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	High
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf