





Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1247		BROAD RUN DAM		T. Nelson Elliott Dam	
Bay-wide Diadromous Tier	10	 			
Bay-wide Resident Tier	3				
Bay-wide Brook Trout Tier	N/A				
NID ID	VA15302				
State ID	1247	 			
River Name	Broad Run				
Dam Height (ft)	79				
Dam Type	Gravity				
Latitude	38.7635				
Longitude	-77.6226				
Passage Facilities	None Documented				
Passage Year	N/A				
Size Class	2: Small River (38.61 - 200 sq mi				
HUC 12	Rocky Branch-Broad Run				
HUC 10	Broad Run				
HUC 8	Middle Potomac-Anacostia-Occ				
HUC 6	Potomac				
HUC 4	Potomac				

Landcover					
NLCD (2011)			Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	2.69		% Tree Cover in ARA of Upstream Network	59.8	
% Natural Cover in Upstream Drainage Area	50.62		% Tree Cover in ARA of Downstream Network	58.05	
% Forested in Upstream Drainage Area	43.17		% Herbaceous Cover in ARA of Upstream Network	28.19	
% Agriculture in Upstream Drainage Area	32.85		% Herbaceous Cover in ARA of Downstream Network	36.33	
% Natural Cover in ARA of Upstream Network	59.89		% Barren Cover in ARA of Upstream Network	0.28	
% Natural Cover in ARA of Downstream Network	51.34		% Barren Cover in ARA of Downstream Network	0.27	
% Forest Cover in ARA of Upstream Network	38.39		% Road Impervious in ARA of Upstream Network	1.72	
% Forest Cover in ARA of Downstream Network	29.25		% Road Impervious in ARA of Downstream Network	1.42	
% Agricultural Cover in ARA of Upstream Network	25.57		% Other Impervious in ARA of Upstream Network	1.5	
% Agricultural Cover in ARA of Downstream Network	35.24		% Other Impervious in ARA of Downstream Network	2.58	
% Impervious Surf in ARA of Upstream Network	2.16				
% Impervious Surf in ARA of Downstream Network	2.9				

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)	131.74	Upstream Size Class Gain (#)		0	
Total Functional Network (mi)	775.97	# Downstream Natural Barriers		0	
Absolute Gain (mi)	131.74	# Downstream Hydropower Dams		2	
# Size Classes in Total Network	4	# Downstream Dams with Passage		0	
# Upstream Network Size Classes	3	# of Downstream Barriers		3	
NFHAP Cumulative Disturbance Index		High			
Dam is on Conserved Land		No			
% Conserved Land in 100m Buffer of Upstream Network		21.4			
% Conserved Land in 100m Buffer of Downstream Network		18.86			
Density of Crossings in Upstream Network Watershed (#/m2)		1.35			
Density of Crossings in Downstream Network Watershed (#/m2)		1.35			
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	Historical	Downstream Shortnose Sturgeon		None Documented	
Downstream Hickory Shad	None Documented	Downstream American Eel		None Documented	
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)		0	
Resident Fish and Rare Species			Stream Health		
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health		POOR	
Barrier is in Modeled BKT Catchment (DeWeber)	No	MD MBSS Benthic IBI Stream Health		N/A	
Barrier Blocks an EBTJV Catchment	No	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8)	62	VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8)	1	PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)	5				
# Rare Crayfish (HUC8)	0				
Globally rare or fed listed fish/mussel sp HUC12	No	Rare fish or mussel sp in HUC12		Yes	
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No	Rare fish or mussel in upstream or downstream functional network		Yes	

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