Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1247** **BROAD RUN DAM** **T. Nelson Elliott Dam**

Diadromous Tier	10
Brook Trout Tier	N/A
Resident Tier	3
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)	
% Impervious Surface in Upstream Drainage Area	2.69
% Natural Cover in Upstream Drainage Area	50.62
% Forested in Upstream Drainage Area	43.17
% Agriculture in Upstream Drainage Area	32.85
% Natural Cover in ARA of Upstream Network	59.89
% Natural Cover in ARA of Downstream Network	51.34
% Forest Cover in ARA of Upstream Network	38.39
% Forest Cover in ARA of Downstream Network	29.25
% Agricultral Cover in ARA of Upstream Network	25.57
% Agricultral Cover in ARA of Downstream Network	35.24
% Impervious Surf in ARA of Upstream Network	2.16
% Impervious Surf in ARA of Downstream Network	2.9

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	59.8
% Tree Cover in ARA of Downstream Network	58.05
% Herbaceaous Cover in ARA of Upstream Network	28.19
% Herbaceaous Cover in ARA of Downstream Network	36.33
% Barren Cover in ARA of Upstream Network	0.28
% Barren Cover in ARA of Downstream Network	0.27
% Road Impervious in ARA of Upstream Network	1.72
% Road Impervious in ARA of Downstream Network	1.42
% Other Impervious in ARA of Upstream Network	1.5
% Other Impervious in ARA of Downstream Network	2.58

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	# Downsteam 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

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)	62
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	5
# 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	Moderate
PA IBI Stream Health	N/A

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