Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_797** **ADVANCE MILLS**

Diadromous Tier	4
Brook Trout Tier	N/A
Resident Tier	7
NID ID	VA00381
State ID	797
River Name	North Fork Rivanna River
Dam Height (ft)	12
Dam Type	Gravity
Latitude	38.1833
Longitude	-78.4399
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Jacobs Run-North Fork Rivanna
HUC 10	North Fork Rivanna River
HUC 8	Rivanna
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.91
% Natural Cover in Upstream Drainage Area	69.78
% Forested in Upstream Drainage Area	68.99
% Agriculture in Upstream Drainage Area	22.63
% Natural Cover in ARA of Upstream Network	55.32
% Natural Cover in ARA of Downstream Network	66.78
% Forest Cover in ARA of Upstream Network	54.82
% Forest Cover in ARA of Downstream Network	65.52
% Agricultral Cover in ARA of Upstream Network	37.52
% Agricultral Cover in ARA of Downstream Network	24.98
% Impervious Surf in ARA of Upstream Network	0.67
% Impervious Surf in ARA of Downstream Network	0.64

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	68.16
% Tree Cover in ARA of Downstream Network	76.14
% Herbaceaous Cover in ARA of Upstream Network	29.36
% Herbaceaous Cover in ARA of Downstream Network	19.69
% Barren Cover in ARA of Upstream Network	0.01
% Barren Cover in ARA of Downstream Network	0.35
% Road Impervious in ARA of Upstream Network	1.1
% Road Impervious in ARA of Downstream Network	0.4
% Other Impervious in ARA of Upstream Network	0.75
% Other Impervious in ARA of Downstream Network	0.35

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)	208.68	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	227.41	# Downsteam Natural Barriers	0
Absolute Gain (mi)	18.73	# Downstream Hydropower Dams	2
# Size Classes in Total Network	3	# Downstream Dams with Passage	4
# Upstream Network Size Classes	3	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	22.47
% Conserved Land in 100m Buffer of Downstream Network	5.32
Density of Crossings in Upstream Network Watershed (#/m2)	1.25
Density of Crossings in Downstream Network Watershed (#/m2)	0.75
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	Potential Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Potential Curre
# Diadromous Species Downstream (incl eel)	1

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	36
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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

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