Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00332** **ANTIETAM**

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	7
Bay-wide Brook Trout Tier	14
NID ID	PA00332
State ID	01-073
River Name	East Branch Antietam Creek
Dam Height (ft)	70
Dam Type	Earth
Latitude	39.8172
Longitude	-77.4559
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	East Branch Antietam Creek
HUC 10	Antietam Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.26
% Natural Cover in Upstream Drainage Area	93.58
% Forested in Upstream Drainage Area	91.06
% Agriculture in Upstream Drainage Area	0.74
% Natural Cover in ARA of Upstream Network	95.02
% Natural Cover in ARA of Downstream Network	75.23
% Forest Cover in ARA of Upstream Network	87.2
% Forest Cover in ARA of Downstream Network	70.33
% Agricultral Cover in ARA of Upstream Network	0.77
% Agricultral Cover in ARA of Downstream Network	12.06
% Impervious Surf in ARA of Upstream Network	0.14
% Impervious Surf in ARA of Downstream Network	1.37

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	91.02
% Tree Cover in ARA of Downstream Network	79.4
% Herbaceaous Cover in ARA of Upstream Network	2.88
% Herbaceaous Cover in ARA of Downstream Network	16.93
% Barren Cover in ARA of Upstream Network	0.19
% Barren Cover in ARA of Downstream Network	0.39
% Road Impervious in ARA of Upstream Network	0.26
% Road Impervious in ARA of Downstream Network	0.85
% Other Impervious in ARA of Upstream Network	0.19
% Other Impervious in ARA of Downstream Network	1.7

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)	7.58	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	39.5	# Downsteam Natural Barriers	1
Absolute Gain (mi)	7.58	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	30.38
% Conserved Land in 100m Buffer of Downstream Network	65.87
Density of Crossings in Upstream Network Watershed (#/m2)	0.39
Density of Crossings in Downstream Network Watershed (#/m2)	0.73
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	1

Resident Fish

Barrier is in EBTJV BKT Catchment	Yes
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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Poor

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