Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12286** **HAGERSTOWN MUNICIPAL PWR PLANT**

Diadromous Tier	19
Brook Trout Tier	N/A
Resident Tier	15
NID ID	MD00264
State ID	12286
River Name	Antietam Creek
Dam Height (ft)	10
Dam Type	Gravity
Latitude	39.6305
Longitude	-77.7099
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Sharmans Branch-Antietam Cre
HUC 10	Antietam Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	4.56
% Natural Cover in Upstream Drainage Area	31.03
% Forested in Upstream Drainage Area	29.98
% Agriculture in Upstream Drainage Area	51.64
% Natural Cover in ARA of Upstream Network	7.35
% Natural Cover in ARA of Downstream Network	24.28
% Forest Cover in ARA of Upstream Network	3.9
% Forest Cover in ARA of Downstream Network	16.45
% Agricultral Cover in ARA of Upstream Network	25.4
% Agricultral Cover in ARA of Downstream Network	37.73
% Impervious Surf in ARA of Upstream Network	22.69
% Impervious Surf in ARA of Downstream Network	14.7

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	21.26
% Tree Cover in ARA of Downstream Network	31.61
% Herbaceaous Cover in ARA of Upstream Network	49.52
% Herbaceaous Cover in ARA of Downstream Network	48.3
% Barren Cover in ARA of Upstream Network	0.63
% Barren Cover in ARA of Downstream Network	0.13
% Road Impervious in ARA of Upstream Network	5.89
% Road Impervious in ARA of Downstream Network	3.68
% Other Impervious in ARA of Upstream Network	20.62
% Other Impervious in ARA of Downstream Network	11.85

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)	12.8	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	49.58	# Downsteam Natural Barriers	1
Absolute Gain (mi)	12.8	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	3	# of Downstream Barriers	4

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	5.99
% Conserved Land in 100m Buffer of Downstream Network	9.7
Density of Crossings in Upstream Network Watershed (#/m2)	2.22
Density of Crossings in Downstream Network Watershed (#/m2)	1.03
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	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)	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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