Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_GU009**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	GU009
River Name	Gunpowder Falls
Dam Height (ft)	117
Dam Type	Unspecified Type
Latitude	39.4306
Longitude	-76.5439
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Lock Raven Reservoir-Gunpowd
HUC 10	Middle Gunpowder Falls
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.39
% Natural Cover in Upstream Drainage Area	46.44
% Forested in Upstream Drainage Area	41.26
% Agriculture in Upstream Drainage Area	36.64
% Natural Cover in ARA of Upstream Network	66.04
% Natural Cover in ARA of Downstream Network	87.07
% Forest Cover in ARA of Upstream Network	52.81
% Forest Cover in ARA of Downstream Network	72.84
% Agricultral Cover in ARA of Upstream Network	20
% Agricultral Cover in ARA of Downstream Network	0
% Impervious Surf in ARA of Upstream Network	2.29
% Impervious Surf in ARA of Downstream Network	2.81

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	62.08
% Tree Cover in ARA of Downstream Network	77.14
% Herbaceaous Cover in ARA of Upstream Network	26.08
% Herbaceaous Cover in ARA of Downstream Network	6.09
% Barren Cover in ARA of Upstream Network	0.37
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	1.09
% Road Impervious in ARA of Downstream Network	1.3
% Other Impervious in ARA of Upstream Network	2.71
% Other Impervious in ARA of Downstream Network	3.13

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)	403.38	Upstream Size Class Gain (#)	3
Total Functional Network (mi)	404.93	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.55	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	4	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	40.9
% Conserved Land in 100m Buffer of Downstream Network	68.7
Density of Crossings in Upstream Network Watershed (#/m2)	1.08
Density of Crossings in Downstream Network Watershed (#/m2)	1.34
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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	52
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

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

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