

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12247** **GUNNERS LAKE**

Bay-wide Diadromous Tier	13
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	MD00279
State ID	12247
River Name	Gunners Branch
Dam Height (ft)	28
Dam Type	Earth
Latitude	39.1618
Longitude	-77.257
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Great Seneca Creek
HUC 10	Seneca Creek
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	26.24	% Tree Cover in ARA of Upstream Network	54.25
% Natural Cover in Upstream Drainage Area	22.34	% Tree Cover in ARA of Downstream Network	50.17
% Forested in Upstream Drainage Area	17.05	% Herbaceous Cover in ARA of Upstream Network	21.91
% Agriculture in Upstream Drainage Area	5.31	% Herbaceous Cover in ARA of Downstream Network	39.72
% Natural Cover in ARA of Upstream Network	29.21	% Barren Cover in ARA of Upstream Network	0.07
% Natural Cover in ARA of Downstream Network	43.71	% Barren Cover in ARA of Downstream Network	0.35
% Forest Cover in ARA of Upstream Network	18.57	% Road Impervious in ARA of Upstream Network	5.09
% Forest Cover in ARA of Downstream Network	30.17	% Road Impervious in ARA of Downstream Network	1.96
% Agricultural Cover in ARA of Upstream Network	2.8	% Other Impervious in ARA of Upstream Network	14.07
% Agricultural Cover in ARA of Downstream Network	38.99	% Other Impervious in ARA of Downstream Network	3.66
% Impervious Surf in ARA of Upstream Network	20.8		
% Impervious Surf in ARA of Downstream Network	3.98		

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)	4.92	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	2917.33	# Downstream Natural Barriers	1
Absolute Gain (mi)	4.92	# Downstream Hydropower Dams	0
# Size Classes in Total Network	7	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	2
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	16.47		
% Conserved Land in 100m Buffer of Downstream Network	19.33		
Density of Crossings in Upstream Network Watershed (#/m2)	3.2		
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	Potential Current	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	Potential Current		
# 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)	Yes
Native Fish Species Richness (HUC8)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

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

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf