

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1221**

DULLES AIRPORT DAM

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	19
Bay-wide Brook Trout Tier	N/A
NID ID	VA10708
State ID	1221
River Name	
Dam Height (ft)	15
Dam Type	Gravity
Latitude	38.9636
Longitude	-77.4453
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Horsepen Run
HUC 10	Broad Run-Potomac River
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	64.49	% Tree Cover in ARA of Upstream Network	12.63
% Natural Cover in Upstream Drainage Area	3.78	% Tree Cover in ARA of Downstream Network	33.47
% Forested in Upstream Drainage Area	0.16	% Herbaceous Cover in ARA of Upstream Network	18.21
% Agriculture in Upstream Drainage Area	0	% Herbaceous Cover in ARA of Downstream Network	33.28
% Natural Cover in ARA of Upstream Network	19.75	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	26.62	% Barren Cover in ARA of Downstream Network	1.01
% Forest Cover in ARA of Upstream Network	0	% Road Impervious in ARA of Upstream Network	8.92
% Forest Cover in ARA of Downstream Network	18.9	% Road Impervious in ARA of Downstream Network	7.07
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	41.84
% Agricultural Cover in ARA of Downstream Network	6.01	% Other Impervious in ARA of Downstream Network	24.26
% Impervious Surf in ARA of Upstream Network	47.47		
% Impervious Surf in ARA of Downstream Network	29.39		

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)	0.4	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	41.46	# Downstream Natural Barriers	1
Absolute Gain (mi)	0.4	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	3
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	7.35		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	2.22		
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	None Documented
Presence of 1 or More Downstream Anadromous Species	None Documented		
# 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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
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	Very Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	Moderate
PA IBI Stream Health	N/A

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