

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1198**

WILLOW DAM

Diadromous Tier	19
Brook Trout Tier	N/A
Resident Tier	10
NID ID	VA06129
State ID	1198
River Name	
Dam Height (ft)	24
Dam Type	Gravity
Latitude	38.8627
Longitude	-77.755
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Trapp Branch-Broad Run
HUC 10	Broad Run
HUC 8	Middle Potomac-Anacostia-Occ
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.16	% Tree Cover in ARA of Upstream Network	19.59
% Natural Cover in Upstream Drainage Area	36	% Tree Cover in ARA of Downstream Network	59.8
% Forested in Upstream Drainage Area	33.28	% Herbaceous Cover in ARA of Upstream Network	55.3
% Agriculture in Upstream Drainage Area	58.56	% Herbaceous Cover in ARA of Downstream Network	28.19
% Natural Cover in ARA of Upstream Network	27.41	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	59.89	% Barren Cover in ARA of Downstream Network	0.28
% Forest Cover in ARA of Upstream Network	8.15	% Road Impervious in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	38.39	% Road Impervious in ARA of Downstream Network	1.72
% Agricultural Cover in ARA of Upstream Network	72.59	% Other Impervious in ARA of Upstream Network	0.12
% Agricultural Cover in ARA of Downstream Network	25.57	% Other Impervious in ARA of Downstream Network	1.5
% Impervious Surf in ARA of Upstream Network	0		
% Impervious Surf in ARA of Downstream Network	2.16		

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)	1.45	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	133.19	# Downstream Natural Barriers	0
Absolute Gain (mi)	1.45	# Downstream Hydropower Dams	3
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	4
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	94.88		
% Conserved Land in 100m Buffer of Downstream Network	21.4		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
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	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)	62
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

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

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