

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_475**

WILLIS DAM

Diadromous Tier	10
Brook Trout Tier	N/A
Resident Tier	11
NID ID	VA14530
State ID	475
River Name	
Dam Height (ft)	26
Dam Type	Earth
Latitude	37.5959
Longitude	-78.0576
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Maxey Mill Creek-Deep Creek
HUC 10	Deep Creek-James River
HUC 8	Middle James-Willis
HUC 6	James
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.27	% Tree Cover in ARA of Upstream Network	11.69
% Natural Cover in Upstream Drainage Area	22.41	% Tree Cover in ARA of Downstream Network	92.84
% Forested in Upstream Drainage Area	19.54	% Herbaceous Cover in ARA of Upstream Network	47.25
% Agriculture in Upstream Drainage Area	74.96	% Herbaceous Cover in ARA of Downstream Network	5.77
% Natural Cover in ARA of Upstream Network	56.76	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	94.49	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	22.97	% Road Impervious in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	67.46	% Road Impervious in ARA of Downstream Network	0.19
% Agricultural Cover in ARA of Upstream Network	43.24	% Other Impervious in ARA of Upstream Network	0
% Agricultural Cover in ARA of Downstream Network	4.85	% Other Impervious in ARA of Downstream Network	0.28
% Impervious Surf in ARA of Upstream Network	0		
% Impervious Surf in ARA of Downstream Network	0.04		

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)	0.1	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	162.04	# Downstream Natural Barriers	0
Absolute Gain (mi)	0.1	# Downstream Hydropower Dams	2
# Size Classes in Total Network	3	# Downstream Dams with Passage	4
# Upstream Network Size Classes	0	# of Downstream Barriers	5
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	11.25		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	0.39		
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	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Historical		
# 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)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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	High
PA IBI Stream Health	N/A

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