

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_67-494**

CROWN AMERICAN CORP RETENTION

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	19
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	67-494
River Name	Willis Run
Dam Height (ft)	10
Dam Type	Earth
Latitude	39.9724
Longitude	-76.7671
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Willis Run-Codorus Creek
HUC 10	Codorus Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	23.32	% Tree Cover in ARA of Upstream Network	14.65
% Natural Cover in Upstream Drainage Area	12.16	% Tree Cover in ARA of Downstream Network	16.14
% Forested in Upstream Drainage Area	5.43	% Herbaceous Cover in ARA of Upstream Network	52.04
% Agriculture in Upstream Drainage Area	2.84	% Herbaceous Cover in ARA of Downstream Network	29.44
% Natural Cover in ARA of Upstream Network	0.66	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	1.37	% Barren Cover in ARA of Downstream Network	14.43
% Forest Cover in ARA of Upstream Network	0.66	% Road Impervious in ARA of Upstream Network	5.38
% Forest Cover in ARA of Downstream Network	0.36	% Road Impervious in ARA of Downstream Network	7.76
% Agricultural Cover in ARA of Upstream Network	0.22	% Other Impervious in ARA of Upstream Network	25.62
% Agricultural Cover in ARA of Downstream Network	0.77	% Other Impervious in ARA of Downstream Network	31.25
% Impervious Surf in ARA of Upstream Network	32.77		
% Impervious Surf in ARA of Downstream Network	56.02		

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)	1.24	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	5.09	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.24	# Downstream Hydropower Dams	3
# Size Classes in Total Network	2	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# 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		0	
Density of Crossings in Upstream Network Watershed (#/m2)		4.38	
Density of Crossings in Downstream Network Watershed (#/m2)		1.8	
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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	1
Resident Fish and Rare Species		Stream Health	
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health	POOR
Barrier is in Modeled BKT Catchment (DeWeber)	No	MD MBSS Benthic IBI Stream Health	N/A
Barrier Blocks an EBTJV Catchment	No	MD MBSS Fish IBI Stream Health	N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No	MD MBSS Combined IBI Stream Health	N/A
Native Fish Species Richness (HUC8)	53	VA INSTAR mIBI Stream Health	N/A
# Rare Fish (HUC8)	2	PA IBI Stream Health	Poor
# Rare Mussel (HUC8)	3		
# Rare Crayfish (HUC8)	0		
Globally rare or fed listed fish/mussel sp HUC12	No	Rare fish or mussel sp in HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No	Rare fish or mussel in upstream or downstream functional network	No

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