

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_VA06147		Volgenau Dam	Shelton Dam
Diadromous Tier	10		
Brook Trout Tier	N/A		
Resident Tier	13		
NID ID	VA06147		
State ID	6147		
River Name			
Dam Height (ft)	34.84		
Dam Type	Earth		
Latitude	38.7862		
Longitude	-77.9738		
Passage Facilities	None Documented		
Passage Year	N/A		
Size Class	1a: Headwater (0 - 3.861 sq mi)		
HUC 12	Thumb Run		
HUC 10	Thumb Run-Rappahannock Rive		
HUC 8	Rapidan-Upper Rappahannock		
HUC 6	Lower Chesapeake		
HUC 4	Lower Chesapeake		

Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.3	% Tree Cover in ARA of Upstream Network	71.42
% Natural Cover in Upstream Drainage Area	58.18	% Tree Cover in ARA of Downstream Network	60.89
% Forested in Upstream Drainage Area	55.04	% Herbaceous Cover in ARA of Upstream Network	11.54
% Agriculture in Upstream Drainage Area	35	% Herbaceous Cover in ARA of Downstream Network	37.37
% Natural Cover in ARA of Upstream Network	81.77	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	43.57	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	67.83	% Road Impervious in ARA of Upstream Network	0.67
% Forest Cover in ARA of Downstream Network	42.77	% Road Impervious in ARA of Downstream Network	0.51
% Agricultural Cover in ARA of Upstream Network	13.94	% Other Impervious in ARA of Upstream Network	0.2
% Agricultural Cover in ARA of Downstream Network	52.5	% Other Impervious in ARA of Downstream Network	0.42
% Impervious Surf in ARA of Upstream Network	0.12		
% Impervious Surf in ARA of Downstream Network	0.14		

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)	1.33	Upstream Size Class Gain (#)	0		
Total Functional Network (mi)	72.64	# Downstream Natural Barriers	0		
Absolute Gain (mi)	1.33	# Downstream Hydropower Dams	0		
# Size Classes in Total Network	2	# Downstream Dams with Passage	0		
# Upstream Network Size Classes	1	# of Downstream Barriers	1		
NFHAP Cumulative Disturbance Index		Moderate			
Dam is on Conserved Land		No			
% Conserved Land in 100m Buffer of Upstream Network		43.7			
% Conserved Land in 100m Buffer of Downstream Network		40.95			
Density of Crossings in Upstream Network Watershed (#/m2)		0.8			
Density of Crossings in Downstream Network Watershed (#/m2)		1.11			
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			Stream Health		
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health	FAIR		
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)	38	VA INSTAR mIBI Stream Health	High		
# Rare Fish (HUC8)	0	PA IBI Stream Health	N/A		
# Rare Mussel (HUC8)	4				
# Rare Crayfish (HUC8)	0				

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