

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1121**

MASSANUTTEN DAM

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	13
Bay-wide Brook Trout Tier	10
NID ID	VA16512
State ID	1121
River Name	Stony Run
Dam Height (ft)	35
Dam Type	Gravity
Latitude	38.408
Longitude	-78.7463
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Hawksbill Creek-South Fork She
HUC 10	Naked Creek-South Fork Shenan
HUC 8	South Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	4.03	% Tree Cover in ARA of Upstream Network	76.29
% Natural Cover in Upstream Drainage Area	76.84	% Tree Cover in ARA of Downstream Network	46.52
% Forested in Upstream Drainage Area	76.38	% Herbaceous Cover in ARA of Upstream Network	5.51
% Agriculture in Upstream Drainage Area	2.23	% Herbaceous Cover in ARA of Downstream Network	44.63
% Natural Cover in ARA of Upstream Network	58.09	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	40.71	% Barren Cover in ARA of Downstream Network	0.19
% Forest Cover in ARA of Upstream Network	56.47	% Road Impervious in ARA of Upstream Network	8.67
% Forest Cover in ARA of Downstream Network	38.31	% Road Impervious in ARA of Downstream Network	2.26
% Agricultural Cover in ARA of Upstream Network	0.27	% Other Impervious in ARA of Upstream Network	7.45
% Agricultural Cover in ARA of Downstream Network	42.34	% Other Impervious in ARA of Downstream Network	4.74
% Impervious Surf in ARA of Upstream Network	4.67		
% Impervious Surf in ARA of Downstream Network	4.76		

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)	4.87	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1394.1	# Downstream Natural Barriers	2
Absolute Gain (mi)	4.87	# Downstream Hydropower Dams	4
# Size Classes in Total Network	5	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	8
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	21.68		
% Conserved Land in 100m Buffer of Downstream Network	20.2		
Density of Crossings in Upstream Network Watershed (#/m2)	2.6		
Density of Crossings in Downstream Network Watershed (#/m2)	1.71		
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	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# 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	High
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf