Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_77 NEALS DAM

Bay-wide Diadromous Tier 15
Bay-wide Resident Tier 13

Bay-wide Brook Trout Tier N/A

NID ID VA13705

State ID 77

River Name

Dam Height (ft) 20

Dam Type Gravity
Latitude 38.1753

Longitude -78.1924

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Blue Run

HUC 10 Blue Run-Rapidan River

HUC 8 Rapidan-Upper Rappahannock

HUC 6 Lower Chesapeake
HUC 4 Lower Chesapeake







	Land	Chesapeake Conservancy (2016) % Tree Cover in ARA of Upstream Network 27.57 % Tree Cover in ARA of Downstream Network 59.12 % Herbaceaous Cover in ARA of Upstream Network 38.44 % Herbaceaous Cover in ARA of Downstream Network 37.94 % Barren Cover in ARA of Upstream Network 0 % Barren Cover in ARA of Downstream Network 0.35 % Road Impervious in ARA of Upstream Network 0			
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	0.39	% Tree Cover in ARA of Upstream Network	27.57		
% Natural Cover in Upstream Drainage Area	44.16	% Tree Cover in ARA of Downstream Network	59.12		
% Forested in Upstream Drainage Area	41.99	% Herbaceaous Cover in ARA of Upstream Network	38.44		
% Agriculture in Upstream Drainage Area	49.85	% Herbaceaous Cover in ARA of Downstream Network	37.94		
% Natural Cover in ARA of Upstream Network	41.73	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	45.08	% Barren Cover in ARA of Downstream Network	0.35		
% Forest Cover in ARA of Upstream Network	7.09	% Road Impervious in ARA of Upstream Network	0		
% Forest Cover in ARA of Downstream Network	42.26	% Road Impervious in ARA of Downstream Network	0.72		
% Agricultral Cover in ARA of Upstream Network	47.24	% Other Impervious in ARA of Upstream Network	0		
% Agricultral Cover in ARA of Downstream Network	49.71	% Other Impervious in ARA of Downstream Network	0.61		
% Impervious Surf in ARA of Upstream Network	0.92				
% Impervious Surf in ARA of Downstream Network	0.5				



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	Network, S	ystem	Туре	and Condition	
Functional Upstream Network (mi)	1.18		Upstream Size Class Gain (#)		0
Total Functional Network (mi)	521.66			# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.18			# Downstream Hydropower Dams	0
# Size Classes in Total Network	4			# Downstream Dams with Passage	1
# Upstream Network Size Classes	1			# of Downstream Barriers	2
NFHAP Cumulative Disturbance Ind	ex			Very High	
Dam is on Conserved Land				Yes	
% Conserved Land in 100m Buffer of	of Upstream Netw	ork		100	
% Conserved Land in 100m Buffer of Downstream Networ				33.18	
Density of Crossings in Upstream N					
Density of Crossings in Downstrean	n Network Waters	hed (#	‡/m2)	0.88	
Density of off-channel dams in Ups	tream Network W	atersh	ed (#	/m2) 0	
Density of off-channel dams in Dow	nstream Network	Wate	rshed	d (#/m2) 0	
		Diadro	mou	s Fish	
Downstream Alewife	Historical	Downstream Striped Bass		None Documented	
Downstream Blueback	Historical	Downstream Atlantic Sturgeon		nstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documente	ed	d Downstream Shortnose Sturgeon		None Documented
Downstream Hickory Shad	None Documente	ed	Downstream American Eel		Current
One or More DS Anadromous Spec	ies Historical		# Di	adromous Sp Dnstrm (incl eel)	1
Resident Fish and	d Rare Species			Stream Health	
Barrier is in EBTJV BKT Catchment		No		Chesapeake Bay Program Stream He	ealth POO
Barrier is in Modeled BKT Catchment (DeWeber)		No		MD MBSS Benthic IBI Stream Health	N/
Barrier Blocks an EBTJV Catchment		Yes		MD MBSS Fish IBI Stream Health	
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No		MD MBSS Combined IBI Stream Hea	ılth N/
Native Fish Species Richness (HUC8)		56		VA INSTAR mIBI Stream Health	Moderat
# Rare Fish (HUC8)		1		PA IBI Stream Health	N/
# Rare Mussel (HUC8) 3		3			
# Rare Crayfish (HUC8)		0			
		No		Rare fish or mussel sp in HUC12	N
Globally rare or fed listed fish/mussel so in		No		Rare fish or mussel in upstream or downstream functional network	N

