Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1304a TOWN OF ORANGE DAM

Bay-wide Diadromous Tier 8
Bay-wide Resident Tier 5

Bay-wide Brook Trout Tier N/A

NID ID VA02929 State ID 1304a

River Name Rapidan River

Dam Height (ft) 38

Dam Type Gravity
Latitude 38.2658

Longitude -78.1572

Passage Facilities Denil
Passage Year 2003

Size Class 3a: Medium Tributary River (200

HUC 12 Poplar Run-Rapidan River HUC 10 Blue Run-Rapidan River

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	0.59	% Tree Cover in ARA of Upstream Network	59.12					
% Natural Cover in Upstream Drainage Area	60.26	% Tree Cover in ARA of Downstream Network	55.58					
% Forested in Upstream Drainage Area	58.8	% Herbaceaous Cover in ARA of Upstream Network	37.94					
% Agriculture in Upstream Drainage Area	34.16	% Herbaceaous Cover in ARA of Downstream Network	41.39					
% Natural Cover in ARA of Upstream Network	45.08	% Barren Cover in ARA of Upstream Network	0.35					
% Natural Cover in ARA of Downstream Network	41.91	% Barren Cover in ARA of Downstream Network	0					
% Forest Cover in ARA of Upstream Network	42.26	% Road Impervious in ARA of Upstream Network	0.72					
% Forest Cover in ARA of Downstream Network	37.83	% Road Impervious in ARA of Downstream Network	0.93					
% Agricultral Cover in ARA of Upstream Network	49.71	% Other Impervious in ARA of Upstream Network	0.61					
% Agricultral Cover in ARA of Downstream Network	51.17	% Other Impervious in ARA of Downstream Network	0.87					
% Impervious Surf in ARA of Upstream Network	0.5							
% Impervious Surf in ARA of Downstream Network	0.76							



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CITTE Offique ID. VA_1304a	TOWN OF ORAIN	GL DAIV	•			
	Network, Sys	stem Ty	pe and Cond	ition		
Functional Upstream Network	unctional Upstream Network (mi) 520.49		Upstream Size Class Gain (#)			0
Total Functional Network (mi) 1061.27			# Downsteam Natural Barriers			0
Absolute Gain (mi)	520.49		# Downstream Hydropower Dams		r Dams	0
# Size Classes in Total Network 4			# Downstream Dams with Passage			0
# Upstream Network Size Classes 4			# of Downstream Barriers			1
NFHAP Cumulative Disturbanc	ce Index			High		
Dam is on Conserved Land				No		
% Conserved Land in 100m Buffer of Upstream Network				33.18		
% Conserved Land in 100m Bu	iffer of Downstream Net	work		10.22		
Density of Crossings in Upstre	am Network Watershed	(#/m2)		0.88		
Density of Crossings in Downs				0.87		
Density of off-channel dams ir				0		
Density of off-channel dams ir	n Downstream Network \	Watersh	ned (#/m2)	0		
	D	iadrom	ous Fish			
Downstream Alewife	Historical	D	Downstream Striped Bass None Doc			umented
Downstream Blueback	eam Blueback Historical		Downstream Atlantic Sturgeon None Doc			umented
Downstream American Shad	Historical	D	ownstream S	Shortnose Sturgeon	None Doc	umented
Downstream Hickory Shad	None Documented	D	ownstream A	American Eel	Current	
Presence of 1 or More Downs	tream Anadromous Spe	cies H	storical			
# Diadromous Species Downs	tream (incl eel)	1				
Resident Fish				Stream Health		
Barrier is in EBTJV BKT Catchment		No	Chesape	Chesapeake Bay Program Stream Health POOR		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Benthic IBI Stream Health		N/A
Barrier Blocks an EBTJV Catchment No.		No	MD MBS	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD MBS	MD MBSS Combined IBI Stream Health		
Native Fish Species Richness (HUC8) 38		38	VA INSTA	VA INSTAR mIBI Stream Health		
# Rare Fish (HUC8)		0	PA IBI St	PA IBI Stream Health		
# Rare Mussel (HUC8)		4				
# Rare Crayfish (HUC8) 0		0				

