Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_721 BOWLES DAM

Bay-wide Diadromous Tier 4
Bay-wide Resident Tier 2

Bay-wide Brook Trout Tier N/A

NID ID VA06507

State ID 721

River Name Horsepen Creek

Dam Height (ft) 23

Dam Type Earth

Latitude 37.8672

Longitude -78.092

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Upper Byrd Creek

HUC 10 Byrd Creek

HUC 8 Middle James-Willis

HUC 6 James

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	0.09	% Tree Cover in ARA of Upstream Network	81.88					
% Natural Cover in Upstream Drainage Area	79.71	% Tree Cover in ARA of Downstream Network	79.1					
% Forested in Upstream Drainage Area	70.17	% Herbaceaous Cover in ARA of Upstream Network	8.95					
% Agriculture in Upstream Drainage Area	18.81	% Herbaceaous Cover in ARA of Downstream Network	15.73					
% Natural Cover in ARA of Upstream Network	94.99	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1					
% Forest Cover in ARA of Upstream Network	79.36	% Road Impervious in ARA of Upstream Network	0.01					
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6					
% Agricultral Cover in ARA of Upstream Network	5.01	% Other Impervious in ARA of Upstream Network	0.07					
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78					
% Impervious Surf in ARA of Upstream Network	0							
% Impervious Surf in ARA of Downstream Network	0.71							



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CITTY Offique ID. VA_721	DOWLLS DAIVI						
	Network, Sy	/stem	Type and Condition	on			
Functional Upstream Network	(mi) 1.99		Upstream	n Size Class Gain (#)	0	
Total Functional Network (mi)	5433.01		# Downsteam Natural Barriers		ers	0	
Absolute Gain (mi)	1.99		# Downst	# Downstream Hydropower Da		2	
# Size Classes in Total Networ	6		# Downst	# Downstream Dams with Pas		4	
# Upstream Network Size Clas	ses 1		# of Dowi	# of Downstream Barriers		4	
NFHAP Cumulative Disturband	e Index		N	Not Scored / Unava	ailable at th	is scale	
Dam is on Conserved Land			N	No			
% Conserved Land in 100m Buffer of Upstream Network			C	0			
% Conserved Land in 100m Bu	ffer of Downstream Ne	twork	1	11.23			
Density of Crossings in Upstream Network Watershed (#/m			2) C)			
Density of Crossings in Downs	tream Network Waters	hed (#	/m2) C	0.84			
Density of off-channel dams in	Upstream Network Wa	atersh	ed (#/m2) 0)			
Density of off-channel dams in	Downstream Network	Wate	rshed (#/m2) C)			
	[Diadro	mous Fish				
Downstream Alewife	Potential Current	tential Current		ownstream Striped Bass		None Documented	
Downstream Blueback	Potential Current	tial Current		ownstream Atlantic Sturgeon		None Documented	
Downstream American Shad	None Documented		Downstream Sho	ortnose Sturgeon	None Doc	umented	
Downstream Hickory Shad	None Documented		Downstream Am	ierican Eel	Current		
Presence of 1 or More Downs	tream Anadromous Spe	ecies	Potential Curre				
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish			Stream Health				
		No	Chesapeak	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS I	MD MBSS Benthic IBI Stream Health N		N/A	
Barrier Blocks an EBTJV Catchment		Yes	MD MBSS I	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) N		No	MD MBSS (MD MBSS Combined IBI Stream Health N		N/A	
Native Fish Species Richness (HUC8) 5		51	VA INSTAR	VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8) 0		0	PA IBI Strea	PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)		3					
# Rare Crayfish (HUC8) 0		0					

