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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	Network, S	System	Туре	and Condi	ition		
Functional Upstream Network (mi)	1.99	Upstream Size Class Gain (#)			am Size Class Gain (#)	0	
Total Functional Network (mi)	5433.01		# Downsteam Natural Barriers		nsteam Natural Barriers	0	
Absolute Gain (mi)	1.99		# Downstream Hydropower Da		nstream Hydropower Dam	s 2	
# Size Classes in Total Network	6		# Downstream Dams with Pass		nstream Dams with Passag	e 4	
# Upstream Network Size Classes	1		# of Downstream Barriers		wnstream Barriers	4	
NFHAP Cumulative Disturbance Inc	lex				Not Scored / Unavailable	at this scale	е
Dam is on Conserved Land					No		
% Conserved Land in 100m Buffer of Upstream Network					0		
% Conserved Land in 100m Buffer of Downstream Network			(11.23		
Density of Crossings in Upstream Network Watershed (#/m2) 0							
Density of Crossings in Downstrear	n Network Waters	shed (#	‡/m2)		0.84		
Density of off-channel dams in Ups	tream Network W	/atersh	ned (#	/m2)	0		
Density of off-channel dams in Dov	vnstream Network	k Wate	ershed	l (#/m2)	0		
		Diadro	mou	s Fish			
Downstream Alewife	Potential Current	nt Downstream Striped Bass		triped Bass	None Documented		
Downstream Blueback	Potential Current	ent D		Downstream Atlantic Sturgeon		None Documented	
Downstream American Shad	None Document	ed	Downstream Shortnose Sturgeon		hortnose Sturgeon	None Documented	
Downstream Hickory Shad	None Document	ed	Downstream American Eel		merican Eel	Current	
One or More DS Anadromous Spec	Anadromous Species Potential Curre # Diadromous Sp Dnstrm (incl eel)				Sp Dnstrm (incl eel)	1	
Resident Fish and Rare Species				Stream Health			
Barrier is in EBTJV BKT Catchment		No		Chesapeake Bay Program Stream Health			FAI
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			N/
Barrier Blocks a Modeled BKT Catchment (DeWeber)) No		MD MBSS Combined IBI Stream Health		alth	N/
Native Fish Species Richness (HUC8)		51		VA INSTAR mIBI Stream Health			Moderat
# Rare Fish (HUC8)		0		PA IBI Stream Health			N/
# Rare Mussel (HUC8)		3					
# Rare Crayfish (HUC8)		0					
Globally rare or fed listed fish/mussel sp HUC12		No		Rare fish or mussel sp in HUC12			N
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network		Yes		Rare fish or mussel in upstream or downstream functional network			Ye

