Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID:	VA_721 BOWLES DAM
Diadromous Tier	4
Brook Trout Tier	N/A
Resident Tier	2
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

James

Lower Chesapeake



	Land	lcover	
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		



HUC 6

HUC 4

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CIFFF Offique ID. VA_721	DOWLLS DAIVI					
	Network, Sys	tem T	ype and Cond	ition		
Functional Upstream Network (mi) 1.99			Upstream Size Class Gain (#)			0
Total Functional Network (mi) 5433.01			# Downsteam Natural Barriers			0
Absolute Gain (mi) 1.99			# Downstream Hydropower Dams			2
# Size Classes in Total Network 6			# Downstream Dams with Passage			4
# Upstream Network Size Classes 1			# of Downstream Barriers			4
NFHAP Cumulative Disturband	ce Index			Not Scored / Unav	ailable at th	is scale
Dam is on Conserved Land				No		
% Conserved Land in 100m Bu	ıffer of Upstream Networ	·k		0		
% Conserved Land in 100m Buffer of Downstream Network				11.23		
Density of Crossings in Upstream Network Watershed (#/I				0		
Density of Crossings in Downs			•	0.84		
Density of off-channel dams in	·			0		
Density of off-channel dams in	1 Downstream Network V	Vaters	shed (#/m2)	0		
	Di	adron	nous Fish			
Downstream Alewife	Potential Current	[Downstream Striped Bass No		None Doc	umented
Downstream Blueback	Potential Current		Downstream Atlantic Sturgeon		None Documented	
Downstream American Shad	None Documented	[Downstream S	Shortnose Sturgeon	None Doc	umented
Downstream Hickory Shad	None Documented	I	Downstream American Eel Curr			
Presence of 1 or More Downs	stream Anadromous Spec	ies F	Potential Curre	е		
# Diadromous Species Downs	tream (incl eel)	1	1			
Resident Fish				Strea	m Health	
Barrier is in EBTJV BKT Catchment		No	Chesape	Chesapeake Bay Program Stream Health FAIR		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Benthic IBI Stream Health		N/A
Barrier Blocks an EBTJV Catchment		Yes	MD MBS	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Combined IBI Stream Health		N/A
Native Fish Species Richness (HUC8)		51	VA INSTA	VA INSTAR mIBI Stream Health		Moderate
# Rare Fish (HUC8))	PA IBI St	ream Health		N/A
# Rare Mussel (HUC8)		3				
# Rare Crayfish (HUC8)	()				

