Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_547 HAPPY CREEK DAM

Bay-wide Diadromous Tier 16
Bay-wide Resident Tier 12

Bay-wide Brook Trout Tier N/A

NID ID VA00366

State ID 547

River Name

Dam Height (ft) 20

Dam Type Gravity
Latitude 38.134

Longitude -78.2352

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Dove Fork-South Anna River

HUC 10 Upper South Anna River

HUC 8 Pamunkey

HUC 6 Lower Chesapeake

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	0.45	% Tree Cover in ARA of Upstream Network	52.45					
% Natural Cover in Upstream Drainage Area	50.83	% Tree Cover in ARA of Downstream Network	66.8					
% Forested in Upstream Drainage Area	49.88	% Herbaceaous Cover in ARA of Upstream Network	42.59					
% Agriculture in Upstream Drainage Area	40.46	% Herbaceaous Cover in ARA of Downstream Network	26.26					
% Natural Cover in ARA of Upstream Network	46.19	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	64.63	% Barren Cover in ARA of Downstream Network	0					
% Forest Cover in ARA of Upstream Network	40.72	% Road Impervious in ARA of Upstream Network	0.91					
% Forest Cover in ARA of Downstream Network	53.89	% Road Impervious in ARA of Downstream Network	0.41					
% Agricultral Cover in ARA of Upstream Network	43.88	% Other Impervious in ARA of Upstream Network	0.59					
% Agricultral Cover in ARA of Downstream Network	33	% Other Impervious in ARA of Downstream Network	0.55					
% Impervious Surf in ARA of Upstream Network	0.56							
% Impervious Surf in ARA of Downstream Network	0.22							



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CITTY Offique ID. VA_347	HAPPI CREEK D	AIVI					
	Network, S	ystem	Type and Cor	ndition			
Functional Upstream Network (mi) 5.17			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 31.7			# Do	# Downsteam Natural Barriers		0	
Absolute Gain (mi) 5.17			# Do	# Downstream Hydropower Dams		0	
‡ Size Classes in Total Network 2			# Do	# Downstream Dams with Passage		0	
# Upstream Network Size Classes 1			# of I	# of Downstream Barriers		6	
NFHAP Cumulative Disturband	ce Index			High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Netwo		ork		29.38			
% Conserved Land in 100m Bu				18.5			
Density of Crossings in Upstre	am Network Watershe	d (#/m	12)	2.28			
Density of Crossings in Downs	tream Network Waters	shed (#	‡/m2)	0.99			
Density of off-channel dams in	n Upstream Network W	'atersh	ned (#/m2)	0			
Density of off-channel dams in	n Downstream Network	(Wate	ershed (#/m2)	0			
		Diadro	omous Fish				
Downstream Alewife	Historical	I		Downstream Striped Bass		None Documented	
Downstream Blueback	Historical	I		Downstream Atlantic Sturgeon		None Documented	
Downstream American Shad	None Documented		Downstream	n Shortnose Sturgeon	None Doc	cumented	
Downstream Hickory Shad	None Documented		Downstream	n American Eel	None Doo	cumented	
Presence of 1 or More Downs	stream Anadromous Spo	ecies	Historical				
# Diadromous Species Downs	tream (incl eel)		0				
Resident Fish			Stream Health				
Barrier is in EBTJV BKT Catchment		No	Chesa	Chesapeake Bay Program Stream Health POOR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD M	MD MBSS Benthic IBI Stream Health		N/A	
Barrier Blocks an EBTJV Catchment		No	MD M	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD M	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8)		56	VA INS	VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8)		1	PA IBI	PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)		3					
# Rare Crayfish (HUC8)		0					

