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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CFPPP Unique ID: VA 547 **HAPPY CREEK DAM** Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) 0 5.17 Total Functional Network (mi) 31.7 # Downsteam Natural Barriers 0 Absolute Gain (mi) 5.17 \cap # Downstream Hydropower Dams # Size Classes in Total Network # Downstream Dams with Passage O 2 # Upstream Network Size Classes # of Downstream Barriers 1 NEHAP Cumulative Disturbance Index High Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 29.38 % Conserved Land in 100m Buffer of Downstream Network 18.5 Density of Crossings in Upstream Network Watershed (#/m2) 2.28 Density of Crossings in Downstream Network Watershed (#/m2) 0.99 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) \cap Diadromous Fish Downstream Alewife Historical None Documented **Downstream Striped Bass** Downstream Blueback Historical Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented None Documented Downstream Shortnose Sturgeon None Documented Downstream Hickory Shad None Documented Downstream American Eel One or More DS Anadromous Species Historical # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health POOR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment Nο MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health Moderate # Rare Fish (HUC8) 1 PA IBI Stream Health N/A # Rare Mussel (HUC8) 3 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Nο No Globally rare or fed listed fish/mussel sp in Rare fish or mussel in upstream or No No



downstream functional network

upstream or downstream functional network