Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_404 MOTOAKA DAM

Bay-wide Diadromous TierBay-wide Resident Tier5

Bay-wide Brook Trout Tier N/A

NID ID VA09510

State ID 404

River Name College Creek

Dam Height (ft) 24

Dam Type Earth

Latitude 37.2638

Longitude -76.7222

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 College Creek

HUC 10 Lawnes Creek-James River

HUC 8 Lower James

HUC 6 James

HUC 4 Lower Chesapeake







Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	17.1	% Tree Cover in ARA of Upstream Network	68.75
% Natural Cover in Upstream Drainage Area	56.01	% Tree Cover in ARA of Downstream Network	59.94
% Forested in Upstream Drainage Area	49.6	% Herbaceaous Cover in ARA of Upstream Network	8.49
% Agriculture in Upstream Drainage Area	0.82	% Herbaceaous Cover in ARA of Downstream Network	13.22
% Natural Cover in ARA of Upstream Network	72.85	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	82.3	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	51.13	% Road Impervious in ARA of Upstream Network	3.42
% Forest Cover in ARA of Downstream Network	27.79	% Road Impervious in ARA of Downstream Network	1.82
% Agricultral Cover in ARA of Upstream Network	1.59	% Other Impervious in ARA of Upstream Network	7.16
% Agricultral Cover in ARA of Downstream Network	2.23	% Other Impervious in ARA of Downstream Network	2.15
% Impervious Surf in ARA of Upstream Network	8.66		
% Impervious Surf in ARA of Downstream Network	2.19		



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CFPPP Unique ID: VA 404 **MOTOAKA DAM** Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) 0 5.71 Total Functional Network (mi) 49.68 # Downsteam Natural Barriers 0 Absolute Gain (mi) 5.71 \cap # Downstream Hydropower Dams # Size Classes in Total Network 3 # Downstream Dams with Passage O # Upstream Network Size Classes # of Downstream Barriers 1 Λ NEHAP Cumulative Disturbance Index Very High Dam is on Conserved Land Yes % Conserved Land in 100m Buffer of Upstream Network 77.89 % Conserved Land in 100m Buffer of Downstream Network 21.34 Density of Crossings in Upstream Network Watershed (#/m2) 0.81 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) Λ Diadromous Fish Downstream Alewife Downstream Striped Bass None Documented Current Downstream Blueback Current Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented None Documented Downstream Shortnose Sturgeon Downstream Hickory Shad None Documented Downstream American Eel Current One or More DS Anadromous Species Current # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health FAIR 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) 62 VA INSTAR mIBI Stream Health High 2 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 1 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Nο Nο 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