Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_825 RED HILL ORCHARD DAM

Bay-wide Diadromous Tier 6
Bay-wide Resident Tier 5

Bay-wide Brook Trout Tier N/A

NID ID VA00320

State ID 825

River Name

Dam Height (ft) 27

Dam Type Earth

Latitude 37.9488

Longitude -78.6057

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 North Fork Hardware River

HUC 10 Hardware River

HUC 8 Middle James-Buffalo

HUC 6 James

HUC 4 Lower Chesapeake







Landcover							
NLCD (2011)		Chesapeake Conservancy (2016)					
% Impervious Surface in Upstream Drainage Area	0.84	% Tree Cover in ARA of Upstream Network	2.7				
% Natural Cover in Upstream Drainage Area	56.63	% Tree Cover in ARA of Downstream Network	79.1				
% Forested in Upstream Drainage Area	45.96	% Herbaceaous Cover in ARA of Upstream Network	72.01				
% Agriculture in Upstream Drainage Area	34.6	% Herbaceaous Cover in ARA of Downstream Network	15.73				
% Natural Cover in ARA of Upstream Network	51.01	% 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	25.76	% Road Impervious in ARA of Upstream Network	0				
% 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	28.79	% Other Impervious in ARA of Upstream Network	0.21				
% 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	2.54						
% Impervious Surf in ARA of Downstream Network	0.71						



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Netw	ork, System	Type and Con	dition				
Functional Upstream Network (mi) 0.68		Upstream Size Class Gain (#)		0			
Total Functional Network (mi) 5431.7		# Downsteam Natural Barriers		0			
Absolute Gain (mi) 0.68		# Downstream Hydropower Dams		ms 2			
# Size Classes in Total Network 6		# Downstream Dams with Passage		nge 4			
# Upstream Network Size Classes 1		# of Downstream Barriers		4			
NFHAP Cumulative Disturbance Index			Very High				
Dam is on Conserved Land			No				
% Conserved Land in 100m Buffer of Upstream		0					
% Conserved Land in 100m Buffer of Downstrea	am Network	<	11.23				
Density of Crossings in Upstream Network Water							
Density of Crossings in Downstream Network Watershed (#/m2) 0.84							
Density of off-channel dams in Upstream Network Watershed (#/m2) 0							
Density of off-channel dams in Downstream Ne	twork Wate	ershed (#/m2)	0				
	Diadro	omous Fish					
Downstream Alewife Potential Co	urrent	None Documented					
Downstream Blueback Potential Co	urrent	Downstream Atlantic Sturgeon		None Documented			
Downstream American Shad None Docu	mented	Downstream Shortnose Sturgeon		None Documented			
Downstream Hickory Shad None Docu	mented	Downstream American Eel		Current			
One or More DS Anadromous Species Potential Curre # Diag		# Diadromou	s Sp Dnstrm (incl eel)	1			
Resident Fish and Rare Speci	es		Stream Healt	h			
Barrier is in EBTJV BKT Catchment No.		Chesap	Chesapeake Bay Program Stream Health				
Barrier is in Modeled BKT Catchment (DeWeber)		MD ME	MD MBSS Benthic IBI Stream Health				
Barrier Blocks an EBTJV Catchment		MD ME	MD MBSS Fish IBI Stream Health				
Barrier Blocks a Modeled BKT Catchment (DeWeber)		MD ME	MD MBSS Combined IBI Stream Health				
Native Fish Species Richness (HUC8)		VA INST	VA INSTAR mIBI Stream Health				
# Rare Fish (HUC8)	0	PA IBI S	tream Health	N/A			
# Rare Mussel (HUC8)	4						
# Rare Crayfish (HUC8)	0						
Globally rare or fed listed fish/mussel sp HUC1.	2 No	Rare fis	h or mussel sp in HUC12	No			
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes	Rare fis	h or mussel in upstream o ream functional network	yes Yes			

