





Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1098		SUMMIT DAM		Lake Holiday Dam	
Bay-wide Diadromous Tier	12	 			
Bay-wide Resident Tier	1				
Bay-wide Brook Trout Tier	N/A				
NID ID	VA06914				
State ID	1098	 			
River Name	Isaacs Creek				
Dam Height (ft)	102				
Dam Type	Gravity				
Latitude	39.3092				
Longitude	-78.3069				
Passage Facilities	None Documented				
Passage Year	N/A				
Size Class	1b: Creek (3.861 - 38.61 sq mi)				
HUC 12	Isaacs Creek-Back Creek				
HUC 10	Back Creek				
HUC 8	Conococheague-Opequon				
HUC 6	Potomac				
HUC 4	Potomac				

Landcover					
NLCD (2011)			Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	0.98		% Tree Cover in ARA of Upstream Network	74.47	
% Natural Cover in Upstream Drainage Area	68.19		% Tree Cover in ARA of Downstream Network	70.73	
% Forested in Upstream Drainage Area	64.33		% Herbaceous Cover in ARA of Upstream Network	11.93	
% Agriculture in Upstream Drainage Area	17.74		% Herbaceous Cover in ARA of Downstream Network	24.95	
% Natural Cover in ARA of Upstream Network	77.16		% Barren Cover in ARA of Upstream Network	0	
% Natural Cover in ARA of Downstream Network	70.65		% Barren Cover in ARA of Downstream Network	0.2	
% Forest Cover in ARA of Upstream Network	65.74		% Road Impervious in ARA of Upstream Network	1.86	
% Forest Cover in ARA of Downstream Network	67.9		% Road Impervious in ARA of Downstream Network	0.81	
% Agricultural Cover in ARA of Upstream Network	10.97		% Other Impervious in ARA of Upstream Network	1.38	
% Agricultural Cover in ARA of Downstream Network	20.89		% Other Impervious in ARA of Downstream Network	1.35	
% Impervious Surf in ARA of Upstream Network	0.95				
% Impervious Surf in ARA of Downstream Network	1.1				

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

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SUMMIT DAM

Lake Holiday Dam

Network, System Type and Condition

Functional Upstream Network (mi)	29.93	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	7742.79	# Downstream Natural Barriers	1
Absolute Gain (mi)	29.93	# Downstream Hydropower Dams	2
# Size Classes in Total Network	6	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	6
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	13.88		
Density of Crossings in Upstream Network Watershed (#/m2)	1.19		
Density of Crossings in Downstream Network Watershed (#/m2)	1.14		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0		

Diadromous Fish

Downstream Alewife	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	None Documented		
# Diadromous Species Downstream (incl eel)	1		

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	GOOD
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Moderate
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf